

HORIZON EUROPE

COLLABORATION OPPORTUNITIES

WITH INSTITUTES OF THE POLISH ACADEMY OF SCIENCES



Brussels
Polish Science Contact Agency
Polish Academy of Sciences



HORIZON EUROPE COLLABORATION OPPORTUNITIES

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concept & coordination

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PolSCA The Polish Science Contact Agency
of the Polish Academy of Sciences in Brussels



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Brussels
Polish Science Contact Agency
Polish Academy of Sciences



Introduction

Dear Reader,



I am delighted to introduce this booklet on Horizon Europe Collaboration Opportunities with Institutes of the Polish Academy of Sciences – an initiative brought to you by the PolSCA PAS Office in Brussels.

Horizon Europe framework programme aims to support and promote wide variety of research and innovation activities to address societal challenges, foster industrial competitiveness, and advance knowledge and technologies. With a budget of €95.5 billion for the period of 2021-2027, Horizon Europe provides the largest EU budget for research and innovation to date. It offers numerous R&I opportunities, including funding for collaborative projects, individual grants and fellowships, as well as partnerships between academia, industry, and other stakeholders.

We, at the Polish Academy of Sciences, consider this as a key opportunity to develop & foster new scientific collaborations while strengthening already existing collaborative links between PAS R&I community and researchers and innovators across Europe and beyond. Therefore, in this handy e-booklet, we present information about more than 30 research-intensive PAS Institutes, incl. their fields of expertise, key achievements and available resources as well as interests in particular parts of the framework programme. The booklet highlights a number of individual team leaders across the PAS units with a high appetite for HE cooperation, offering potential partners a glimpse of the cutting-edge research conducted in Poland.

I encourage all readers to use this booklet as a valuable resource to establish partnerships with institutes of the Polish Academy of Sciences and thus expand viable links with Polish academic community. For the ease of use, the booklet is divided in several chapters, each corresponding to different HE instruments, like MSCA or RIs, various thematic clusters, innovation and widening calls. On the behalf of PolSCA stakeholders across the Polish Academy of Sciences, I look forward to exploring many exciting possibilities for scientific collaboration enabled by such resource. Through joint engagement, let us advance scientific knowledge for the betterment of society and thus contribute together to the development of a sustainable and prosperous future for Europe and the world!

Sincerely,



Tomasz Poprawka

DIRECTOR OF POLSCA

About PolSCA

At PolSCA – the Polish Science Contact Agency of the Polish Academy of Sciences in Brussels – our mission is to facilitate and promote the participation of the Polish scientific community in European research and innovation initiatives. We work to establish and maintain contacts between Polish scientific institutions and organizations in Brussels, Europe and beyond. We strive to provide assistance and support to researchers seeking to participate in European Union research programmes. Our team is dedicated to fostering collaborations and partnerships between European stakeholders and the scientific community of Poland, in particular among PAS researchers, with a focus on Horizon Europe initiatives.

PolSCA PAS Office in Brussels also fosters collaboration with a growing community of research managers and administrators (RMAs) working across various research institutes of the Polish Academy of Sciences in Poland. To do so effectively, we have established so-called Horizon Europe Navigators network supported with MSCA-funded PASIFIC project. Thanks to such robust network, we are available to provide support and guidance to interested parties, as well as help to establish contacts with the scientific teams in Poland.



From the left: Magdalena Dobrzyńska, Tomasz Poprawka, Joanna Komperda, Jadwiga Olech-Kostka.

The Polish Academy of Sciences (PAS)

The Polish Academy of Sciences (PAS) is a major state-funded institution of higher education and research in Poland. It consists of three main pillars: a body of elected members, a network of research institutes (including some of the top scientific centers in the country), and a set of committees focused on specific disciplines and problem issues.

The first pillar is the elected body of Members of the Academy, which consists of up to 350 National Members – all of them highly distinguished scholars and scientists of renowned achievements and respected authority. The Academy also currently has 163 Foreign Members. Membership in the PAS is considered a great honor and an expression of the highest recognition for preeminent scholarly accomplishments. Since 2010, an elected body of talented researchers of the younger generation, known as the Polish Young Academy, has also been operating within the structure of the PAS.

The second pillar of the Polish Academy of Sciences is the network of PAS research institutes. The strongest research network in the country, it consists of 69 scientific institutes, many of them ranking among the very best in Poland, indeed even Europe and the wider world. The PAS Institutes are engaged in carrying out top-notch research projects in almost all scientific fields. They generate the inventions, patents, and scientific advances that are the Academy's hallmark, helping to expand humanity's horizons and change the world in a positive way.

The third pillar, in turn, consists of a set of committees and advisory panels that disseminate scientific knowledge and provide the kind of expertise that is crucial for robust public debate. These are expert groups that draw together specialists with different narrow specializations and fields of expertise. They create a space for intellectual exchange and relationship-building among scholars. They serve as the national-level representation of various scientific communities and disciplines, and they perform important advisory functions.

Other important parts of the Academy include its auxiliary units, including libraries, archives, museums, a botanical garden, and conference centers. The Academy also has territorial branches centered in eight Polish cities, which serve to integrate the local scientific community in the region, to initiate research and to disseminate research results. Moreover, the Academy also maintains a strong presence outside of Poland, via its scientific centers in six major European capital cities.

Source: pan.pl

Scientific Institutes of PAS

The Polish Academy of Sciences maintains the strongest research network in the country, consisting of 68 independent research Institutes (plus the International Institute of Molecular and Cellular Biology). The PAS Institutes are engaged in carrying out top-notch research projects in almost all scientific fields. They generate the inventions, patents, and scientific advances that are the Academy's hallmark, helping to expand humanity's horizons and change the world in a positive way.

Like all research institutions in Poland, the Institutes affiliated with the Polish Academy of Sciences are subject to strict period evaluation in terms of the quality of research work done their disciplines. In all, 17 of the disciplines practiced at the PAS Institutes have received the highest category (A+ – awarded to the top elite of Polish science) in the latest evaluation. Another 40 received the next-highest category (A). This is well above the average for research institutions in the country.

All told, the Institutes of the Polish Academy of Sciences employ more than 9,000 people, including nearly 4,100 researchers. The internationalization rate of scientific staff across all the Institutes is 8%, although the ratio is significantly higher at some centers. For example, the PAS Center for Theoretical Physics employs 40% foreign scholars, the Nicolaus Copernicus Astronomical Center employs 31%, and the PAS Institute of Physical Chemistry and the PAS Institute of Mathematics employ 25% (October 2021 data). The PAS Institutes regularly receive grants from the National Science Center (NCN) and the National Center for Research and Development (NCBR). They have won a total of 103 million euros under the EU's Horizon 2020 program (implemented from 2014-2020) – the best result among Polish scientific units.

Also noteworthy are the 5 Dioscuri Centers of Scientific Excellence supported by Germany's Max Planck Society – international research groups established at PAS Institutes and led by prominent researchers.

The institutes of the Polish Academy of Sciences (plus the International Institute of Molecular and Cellular Biology) have so far won 17 prestigious European Research Council (ERC) grants. Such grants mean not only major funding for projects, but also a globally recognized “seal of approval” for the quality of a scientist's work.

Taken together, Institutes strongly contribute to the Academy's reputation and brand. However, they are each separate entities, maintaining their own legal personality. Below is a list of all the scientific institutes of the Polish Academy of Sciences (grouped by the Division of the Academy with which they are affiliated).

Source: pan.pl

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PAS Institutes



NA 1.25

Institute of Economics, PAS

WARSAW



KEY RESEARCH DOMAINS

economic theory, methodology and policy, inequalities and their measurement, financial and monetary policy, industry 4.0 and innovations, energy transition, labour market, network & process analysis

ABOUT THE INSTITUTE

The Institute was founded in 1980 and now employs 24 researchers including 10 professors, 12 assistant professors and 2 assistants. They are engaged in intensive scientific and research activities in the fields of economics and management. The Institute conducts a variety of seminar activities, including also highly popular open discussion panels devoted to key problems of economic theory and policy with the participation of outstanding economists. It also runs a postgraduate program in business studies.

INTEREST IN HORIZON EUROPE

MSCA instruments | Cluster 2 | Cluster 6 | EIC/EIT | Widening instruments

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

In recent years, there has been a sharp increase of our publications with recognized international publishing houses. We were also the organizer of international conferences, including one devoted to the problem of inequalities with the participation of outstanding scientists from prestigious academic centers such as Princeton, Cambridge, New York and London School of Economics. A growing number of our researchers have been invited to participate in international conferences as speakers or to undertake scientific internships or stays for consultations within jointly performed projects (two of which are funded by the EU). Two researchers received scholarships for outstanding young scientists and two others earned prizes for their doctoral dissertations.

FEATURED TEAM LEADERS



PhD, DSc
Martyna Kobus

CENTER FOR THE STUDY OF INEQUALITY



PhD, DSc
Anna Ujwary-Gil

LABORATORY OF PROCESS
AND NETWORK ANALYSIS



PhD, DSc
Oskar Kowalewski

RESEARCH LABORATORY
OF ADVANCED STUDIES



PhD
Jagoda Kaszowska-Mojša

MODELLING FOR PUBLIC POLICY PURPOSES
(MPP)



PhD, DSc
Tomasz Łyziak

EXPECTATIONS' FORMATION
AND MACROECONOMIC POLICY

Institute of History, PAS

WARSAW



KEY RESEARCH DOMAINS

history, digital humanities, knowledge acquisition, information science

ABOUT THE INSTITUTE

The Institute, carries out research on Polish and world history, from the Middle Ages up to the 20th century. Some of the research projects are being conducted in co-operation with other institutions, both in Poland and other European countries. The Institute consists of 12 departments (zakłady) and 10 sections (pracownie) with different profiles, mainly chronologically or thematically based. Some of them study particular regions of Europe or Poland over longer periods of time.

INTEREST IN HORIZON EUROPE

MSCA instruments | Research Infrastructures | Cluster 2 | Cluster 4
| Widening instruments

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

The high quality of research work carried out at the Institute of History has resulted in a large number of successfully obtained and conducted grants, including projects financed by Poland's National Science Centre (NCN), the Polish Ministry of Education and Science (e.g. within the agenda of the National Programme for the Development in the Humanities), and also European Union funds. Part of the Institute is a research library open to all historians. The Institute also offers access to digitalized data: <https://ihpan.edu.pl/en/digital-resources/>

FEATURED TEAM LEADERS



PhD
Bogumił Szady

MODELLING SPATIAL KNOWLEDGE



PhD
Wiesława Duży

MODELLING SPATIAL KNOWLEDGE



PhD
Tomasz Panecki

RESEARCH IN SPATIAL HISTORY,
HISTORICAL GEOGRAPHY & CARTOGRAPHY



PhD
Adam Zapała

DIGITAL INFRASTRUCTURE FOR HUMANITIES

Institute of Literary Research, PAS

WARSAW



KEY RESEARCH DOMAINS

literary studies, cultural studies, digital humanities, open science, research infrastructure

ABOUT THE INSTITUTE

The Institute, founded in 1948, is a highly recognized center for literary and cultural studies in Poland. It pursues interdisciplinary research into literary and cultural phenomena and specialises in long-term projects in literary history and theory, literary documentation, bibliography, lexicography, and scholarly editions. The Institute is invested in developing research infrastructure, interdisciplinary approaches to the humanities, as well as open science.

INTEREST IN HORIZON EUROPE

MSCA instruments | Research Infrastructures | Cluster 2 | Widening instruments

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FEATURED ACHIEVEMENTS & FACILITIES

The Digital Humanities Centre was founded in 2013 to lead and coordinate digital research at the Institute. It also coordinates the Institute's cooperation with Polish and European research infrastructures like OPERAS, DARIAH and CLARIN, as well as collaborations under the framework of EU projects. Led by Maciej Maryl, the Centre focuses on three main areas: scholarly communication for social sciences and humanities, digital scholarly editions and monographs, and data-driven approaches to literature and culture. In all of these areas it promotes open science. The Centre has secured over 20 grants from diverse funding sources (including HEU, H2020, COST, Erasmus+) amounting to more than EUR 6 million.

FEATURED TEAM LEADERS



PhD, DSc

Paweł Mościcki

DEPARTMENT OF THE ANTHROPOLOGY OF THE PRESENT



PhD, DSc

Magdalena Rembowska-Płuciennik

DEPARTMENT OF HISTORICAL POETICS



Professor

Monika Rudaś-Grodzka

WOMENS ARCHIVE WORKING GROUP



PhD

Maciej Maryl

DIGITAL HUMANITIES CENTRE

Institute of Philosophy and Sociology, PAS

WARSAW



KEY RESEARCH DOMAINS

sociology of politics, economy & education, survey methodology, history of knowledge & ideas, social inequality & mobility, logic & cognitive science, Holocaust & Jewish Studies, environmental studies

ABOUT THE INSTITUTE

The Institute established in 1956, is recognized by the Ministry of Science and Higher Education as a leading scientific unit in Poland. The Institute's primary objective is to carry out advanced research in the fields of philosophy, sociology, and cognitive science. Apart from its research activity, the Institute is also engaged in education, publishing, and popular outreach activities.

INTEREST IN HORIZON EUROPE

MSCA instruments | Cluster 1 | Cluster 2 | Cluster 6 | Widening instruments

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

The Institute is involved in multiple international programmes and projects spanning a wide range of thematic areas in the social sciences and humanities, and including horizontal activities. There are currently over 60 research projects underway, including an ERC Consolidator Grant, starting in 2020; the European Social Survey (rounds 9 and 10) and projects implemented within CONSIRT (Cross-National Studies: Inter-disciplinary Research and Training Program).

FEATURED TEAM LEADERS



PhD

Krzysztof Niedziałkowski

ENVIRONMENTAL SOCIOLOGY LAB



PhD

Michał Kotnarowski

EUROPEAN SOCIAL SURVEY - POLAND



PhD, DSc

Marcin Miłkowski

SECTION FOR LOGIC AND COGNITIVE SCIENCE



Professor

Barbara Engelking

POLISH CENTER FOR HOLOCAUST RESEARCH



Professor

Kazimierz M. Słomczyński

COMPARATIVE ANALYSES OF SOCIAL INEQUALITY TEAM (CASIN)



Professor

Valentina Lepri

CENTRE FOR THE HISTORY OF RENAISSANCE KNOWLEDGE

Institute of Political Studies, PAS

WARSAW



KEY RESEARCH DOMAINS

political science, international relations, European Union studies, political behavior, cross-national surveys, social transformations, Democracy and Governance, Holocaust, communism, secret police

ABOUT THE INSTITUTE

Founded in 1990, the Institute brings together leading Polish political scientists, historians, and sociologists to create a unique environment where innovative knowledge and policy expertise is produced. The Institute's mission is to conduct high-level multidisciplinary research that investigates political and social change at the crossroads between East and West.

INTEREST IN HORIZON EUROPE

MSCA instruments | Cluster 2

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

Researchers from our Institute have been creators and co-creators of some of Poland's most important cultural institutions and places of public debate (including the Warsaw Uprising Museum, the Polin Museum, the Museum of World War II), participants in the international academic and political dialogue with counterparts from Ukraine, Russia, Germany or Austria, and members of the scientific councils of major European research institutions. The Institute's staff have also authored numerous articles published in some of the world's leading journals, such as: East European Politics and Societies, Social Science Quarterly, International Affairs, Intelligence, and International Journal of Comparative Sociology.

FEATURED TEAM LEADERS



Professor
Dariusz Stola

DEPARTMENT OF RECENT POLITICAL
HISTORY



Professor
Agnieszka Cianciara

DEPARTMENT OF INTERNATIONAL
ORGANIZATIONS AND GLOBAL SECURITY
STUDIES



PhD
Marta Kołczyńska

DEPARTMENT OF RESEARCH ON SOCIAL
AND INSTITUTIONAL TRANSFORMATIONS



Professor
Piotr Osęka

DEPARTMENT OF RECENT POLITICAL HISTORY



Professor
Ireneusz Sadowski

DEPARTMENT OF RESEARCH ON SOCIAL
AND INSTITUTIONAL TRANSFORMATIONS



Professor
Monika Sus

DEPARTMENT OF INTERNATIONAL
ORGANIZATIONS AND GLOBAL SECURITY
STUDIES

Institute of Rural and Agricultural Development, PAS

WARSAW



KEY RESEARCH DOMAINS

Rural development, rural community, rural-urban relations, rural well-being, farming, food networks, sustainable development, multifunctional countryside, land use, rural and agricultural policies

ABOUT THE INSTITUTE

The Institute for the past 50 years has gained considerable recognition and acknowledgment in the fields of rural development and agriculture. It is a leading interdisciplinary research organisation focused on monitoring current socio-economic and environmental challenges that rural communities face. It conducts domestic and international research and development projects on rural and agricultural issues. The Institute is a precursor of theoretical studies on rural multifunctionality.

INTEREST IN HORIZON EUROPE

Cluster 1 | Cluster 2 | Cluster 4 | Cluster 5 | Cluster 6 | EIC/EIT

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

The Institute's researchers are currently involved in international projects under the Horizon 2020 and Horizon Europe EU framework programmes: SURE-Farm, LIFT, FARMWELL, SoilValues, FOODPathS, SWIFT, the BioMonitor4CAP and FoSSNet.

The Institute has been researching socio-economic development of rural areas and their communities from the geographical perspective within the "Rural Development Monitoring" Programme.

The Institute's library offers a wide range of publications on local and regional economics, agricultural economics, rural tourism, rural sociology, anthropology, and other broadly considered rural topics.

FEATURED TEAM LEADERS



PhD, DSc

Adam Czarnecki

RESEARCH TEAM ON RURAL WELL-BEING



PhD, DSc

Katarzyna Zawalińska

LABORATORY OF ECONOMIC MODELLING



PhD, DSc

Paweł Chmieliński

LABORATORY ON SUSTAINABLE EUROPEAN FOOD SYSTEMS



PhD

Anna Rosa

RESEARCH TEAM ON REGENERATIVE AGRICULTURE

Institute of Slavic Studies, PAS

WARSAW



KEY RESEARCH DOMAINS

linguistics, sociolinguistics, literary studies, cultural studies, history, ethnology, sociology

ABOUT THE INSTITUTE

The activity and research agenda of the Institute focus on areas which pose a challenge to modern humanities and which play a key role in the development of social consciousness and the preservation of material and non-material national heritage. The Institute conducts interdisciplinary research on all Slavic cultures and languages as well as their relations with their neighbors.

INTEREST IN HORIZON EUROPE

MSCA instruments | Cluster 2 | Widening instruments

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

Over the years, the Institute has implemented multiple international and national research projects involving researchers from different countries worldwide: among them an ERC Starting Grant, National Science Centre (NCN) research grants (including Beethoven, a Polish-German research project, and a POLS project), and numerous grants from the Polish Ministry of Education. The Institute has also been a member of the CLARIN-PL and DARIAH-PL consortia, contributing to their innovative work in digital humanities and social sciences. The Institute also boasts of the Zdzisław Stieber Library, the Slavic Academic Information Centre, and the Slavic Publication Centre, which issues eight highly ranked journals and publishes single- and multi-author monographs.

FEATURED TEAM LEADERS



Professor
Anna Zielińska
DEPARTMENT OF LINGUISTICS



PhD, DSc
Nicole Dołowy-Rybińska
DEPARTMENT OF LINGUISTICS



PhD
Karolina Ćwiek-Rogalska
DEPARTMENT OF LITERARY
AND CULTURAL STUDIES



PhD, DSc
Grażyna Szwat-Gyłybowa
DEPARTMENT OF LITERARY
AND CULTURAL STUDIES



PhD
Anna Zawadzka
DEPARTMENT OF NATIONALITY STUDIES

European Regional Centre for Ecohydrology, PAS

ŁÓDŹ



KEY RESEARCH DOMAINS

ecohydrology, nature-based solutions, catchment scale, molecular scale, toxic algal blooms, wastewater treatment plants, land/water ecotones

ABOUT THE INSTITUTE

The Centre is an international scientific research institute, with fundamental mission and goals related to the implementation of the International Hydrological Programme of UNESCO (UNESCO IHP) and the Environmental Directives of the European Commission. As water is fundamental for most types of environmental processes, regulation of water processes allows ecosystem processes to be used as tools for enhancing the sustainability potential of catchments.

INTEREST IN HORIZON EUROPE

Cluster 6

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FEATURED ACHIEVEMENTS & FACILITIES

Ecohydrology introduces a holistic approach to catchment management, by simultaneous improvement of 4 elements of the catchment's sustainable development potential: water (W), biodiversity (B), services for society (society – S) and resilience to climate change (R, WBSR), to achieve sustainable development. The principles of Ecohydrology and Ecohydrological Nature-Based Solutions, the foundations of which were developed at the Centre, have been included in UNESCO's Intergovernmental Hydrological Programme IX for 2022–2029. Ecohydrology has also been included by the Committee of the Regions of the European Commission in the document "Fitness-Check of the Water Framework Directive" verifying the implementation of the Water Framework Directive.

FEATURED TEAM LEADERS



PhD, DSc
Edyta Kiedrzyńska
RESEARCH TEAM: WASTEWATER
PURIFICATION



PhD, DSc
Katarzyna Izydorczyk
RESEARCH TEAM: WATER MANAGEMENT
IN AGRICULTURE BASIN



Professor
Joanna Mankiewicz-Boczek
LABORATORY OF MOLECULAR
ECOHYDROLOGY



Professor
Magdalena Urbaniak
PLANT-BACTERIA PARTNERSHIP RESEARCH
GROUP



PhD
Kinga Krauze
RESEARCH TEAM: SOCIO-ECOHYDROLOGY
AND ECOSYSTEM SERVICES

Institute of Animal Reproduction and Food Research, PAS

OLSZTYN



KEY RESEARCH DOMAINS

animal sciences and fisheries, technology of food and nutrition, targeted nutrition/nutrigenomics, conservation biology, life sciences – obesity, type 2 diabetes, allergy, biology of reproduction

ABOUT THE INSTITUTE

Since 1988, the research staff at the Institute have pursued world-class research dedicated to understanding and improving the natural environment's impact on the quality of human life and animal wellbeing. We concentrate on interactions between food ingredients and the human body, reproductive biotechnologies, sustainable aquaculture and biodiversity protection, improving the nutritional value of food, and innovative diagnostic tools. Our staff members regularly appear in the rankings of the world's most influential scientists.

INTEREST IN HORIZON EUROPE

MSCA instruments | Cluster 1 | Cluster 6 | Widening instruments | EIC/EIT

CONTACT

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Spokesperson

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FEATURED ACHIEVEMENTS & FACILITIES

Holding the status of a Leading National Science Centre (KNOW), as well as the highest “A+” category awarded by the Polish Ministry of Education and Science in technology of food and nutrition, the Institute pursues interdisciplinary research to investigate the mechanisms of environmental impact on the health and well-being of humans and animals. It is a member of a pan-European EIT-Food Knowledge and Innovation Community that aims to build sustainable end-to-end food supply chains implemented through transformative innovation and education initiatives, with a central role for the consumer. The Institute also runs an Interdisciplinary Doctoral School and holds the “HR Excellence in Research” logo.

FEATURED TEAM LEADERS



Professor
Carsten Carlberg
NUTRIGENOMICS TEAM



Professor
Dagmara Złotkowska
IMMUNOLOGY AND FOOD MICROBIOLOGY
DEPARTMENT



Professor
Wiesław Wiczkowski
CHEMISTRY AND BIODYNAMICS OF FOOD
DEPARTMENT, METABOLOMICS LABORATORY



Professor
Monika Kaczmarek
HORMONAL ACTION MECHANISMS
DEPARTMENT, MOLECULAR BIOLOGY
LABORATORY



PhD
Magdalena Weidner-Glunde
REPRODUCTIVE IMMUNOLOGY AND
PATHOLOGY DEPARTMENT, MOLECULAR
MICROBIOLOGY AND VIROLOGY LABORATORY



PhD, DSc
Daniel Żarski
FISH REPRODUCTION AND DEVELOPMENT
GROUP

Institute of Bioorganic Chemistry, PAS

POZNAN



KEY RESEARCH DOMAINS

RNA, nucleic acids, genomics, multi-omics, archeogenomics, structural biology, biotechnology, interceptive medicine, natural products, bioimaging, single cell sequencing, genome engineering, virology

ABOUT THE INSTITUTE

The Institute is among the narrow group of leading scientific centers in Poland with an over 50-year history of interdisciplinary research in chemistry, biology, and informatics. Studies carried out at the Institute encompass a wide range of disciplines, stretching from bioorganic chemistry, through molecular biology, to systems and synthetic biology, with particular emphasis on nucleic acids. The Institute runs a Doctoral School and is authorized to award doctoral degrees in biological and chemical sciences.

INTEREST IN HORIZON EUROPE

MSCA instruments | Research Infrastructures | Cluster 1 | Cluster 6 |
Widening instruments | EIC/EIT

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

Evaluation performed by the Polish Ministry of Education and Science ranked the Institute of Bioorganic Chemistry among the 3 best Polish research and academic institutions in the field of biology and also among the top ones in chemistry and informatics. Out of the 70 facilities recognized as strategic infrastructures for science and the economy in Poland, 9 are located at the Institute; these include: the Center for Structural Biology, MOSAIC platform (Multiomics and Artificial Intelligence for Clinical Practice), NEBI (National Centre for Advanced Analysis of Biological and Biomedical Imaging), and the High-throughput Screening Center – part of the EU-Openscreen ERIC.

FEATURED TEAM LEADERS



PhD, DSc
Maciej Figiel

DEPARTMENT OF MOLECULAR NEUROBIOLOGY



PhD, DSc
Jacek Łukasz Kolanowski

CENTRE FOR CHEMICAL BIOLOGY ERIC



Professor
Marek Figlerowicz

DEPARTMENT OF MOLECULAR AND SYSTEMS BIOLOGY

Institute of Genetics and Animal Biotechnology, PAS

JASTRZĘBIEC



KEY RESEARCH DOMAINS

animal biotechnology, genetics, animal sciences, health sciences, nutrigenomics, embryology, molecular biology, animal welfare, functional genomics, quality of food of animal origin

ABOUT THE INSTITUTE

The Institute conducts extensive research in the fields of animal genetics, breeding, and biotechnology, seeking to contribute to innovation and biological progress in agriculture with the aim of improving the quality of life of society. The Institute is one of the leading research institutions in Poland with the highest scientific category "A+" and holding the prestigious status of a Leading National Science Centre (KNOW), as well as a European Center of Excellence (ANIMBIOGEN in EU).

INTEREST IN HORIZON EUROPE

MSCA instruments | Cluster 1 | Cluster 6 | Widening instruments | EIC/EIT

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FEATURED ACHIEVEMENTS & FACILITIES

The Institute employs 120 people, 40% of them scientists from abroad. The Institute cooperates with 80 research units from 20 countries and several Technology Platforms. In the last 5 years, the Institute has carried out over 40 research projects in animal sciences and health sciences with a value of over 20 M EUR, including 11 projects financed by the EU Framework Programmes.

The Institute has 6 research departments – Biotechnology and Nutrigenomics, Molecular Biology (including transcriptomics & proteomics), Animal Behavior and Welfare, Experimental Embryology, Genomics and Biodiversity, and Experimental Genomics – as well as very well-equipped core-facility laboratories and modern animal facilities.

FEATURED TEAM LEADERS



PhD, DSc

Joanna Marchewka

DEPARTMENT OF ANIMAL BEHAVIOR AND WELFARE



Professor

Jarosław Olav Horbańczuk

DEPARTMENT OF BIOTECHNOLOGY AND NUTRIGENOMICS



PhD, DSc

Irene Camerlink

ANIMAL SOCIAL BEHAVIOR GROUP, DEPARTMENT OF ANIMAL BEHAVIOR AND WELFARE



PhD, DSc

Hiroaki Taniguchi

TEAM FOR GENOME EDITING AND TRANSCRIPTIONAL REGULATION/DEPARTMENT OF EXPERIMENTAL EMBRYOLOGY



PhD, DSc

Anna Piliszek

DEPARTMENT OF EXPERIMENTAL EMBRYOLOGY



PhD

Artur Zelen

DEPARTMENT OF MOLECULAR BIOLOGY

Institute of Paleobiology, PAS

WARSAW



KEY RESEARCH DOMAINS

functional and evolutionary morphology, paleobiology of invertebrates and vertebrates, biomineralization, biosedimentology and paleogeomicrobiology, paleoclimatic and environmental changes

ABOUT THE INSTITUTE

The mission of the Institute is to understand the fossil record as a foundation of knowledge about the history and evolution of the living world. The Institute draws together a rich diversity of scientific expertise that ranges from descriptions of fossil biota to interdisciplinary research on biomineralization. The questions addressed in our research include how environmental change, measured over millions of years, can drive evolution, and how evolution may also affect environmental conditions.

INTEREST IN HORIZON EUROPE

Cluster 5 | Cluster 6

CONTACT

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Professor

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FEATURED ACHIEVEMENTS & FACILITIES

In recent years our researchers have published a number of publications in high-profile scientific journals, on topics including problems of earliest evidence of life on Earth, the origin and evolution of vertebrates, mammalian paleoneurobiology, as well as the emergence of coral reefs and the evolution of biomineralizing organisms.

The Institute has a wide variety of traditional and modern laboratories, including:

- (1) a Laboratory of Cathodoluminescence Microscopy (hot cathode),
- (2) a Laboratory of Microtomography (Zeiss XRadia MicroXCT-200, submicrometric resolution),
- (3) a 3D Laboratory,
- (4) an Electron Microscopy and Electron Microprobe Laboratory (Philips FEI XL-20, and ThermoFisher QUATTRO S FE-SEM),
- (5) thin section and preparatory laboratories.

FEATURED TEAM LEADERS



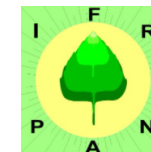
Professor

Jarosław Stolarski

BIOSTRUCTURES AND BIOMINERALIZATION WORKING GROUP

The Franciszek Górski Institute of Plant Physiology (IPP), PAS

CRACOW



KEY RESEARCH DOMAINS

crops, drought, nutrition, stress responses

ABOUT THE INSTITUTE

The Institute is a research institution located in Kraków, close to both the city's international airport and its historic center. IPP PAS has interdisciplinary profile, situated between the biological and agronomical sciences. The scientific staff are enthusiastic and engaged in investigations on all levels of plant physiology – from molecular to integrated physiology on the organ, whole plant, and crop field level.

INTEREST IN HORIZON EUROPE

Cluster 6

CONTACT

Franciszek Janowiak

Professor, Director

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FEATURED ACHIEVEMENTS & FACILITIES

In recent years a number of national and international research projects have been carried out at IPP PAS, including an ERANET (NCBR) project on the genetic adaptation of sorghum to European climatic conditions, a HARMONIA (NCN) project concerning the role of oxidative stress in triticales embryogenesis, and an OPUS (NCN) project focusing on the role of cell wall phenols in drought stress in triticales. IPP PAS has well-equipped laboratories, growth chambers, equipment for physicochemical methods –e.g. a high performance liquid chromatograph with tandem mass spectrometry (UHPLC MS/MS), gas chromatograph, flow cytometer, FT-Raman spectrometer, isothermal calorimeters, microscopes, and imaging analysis tools (including in 3D).

FEATURED TEAM LEADERS



Professor
Iwona Żur

GROUP OF MICROSPORE EMBRYOGENESIS



Professor
Anna Janeczko

GROUP OF PLANT STRESS: STEROIDS



PhD, DSc
Ilona Czyczyło-Mysza

GROUP OF PLANT STRESS:
ROLE OF EPICUTICULAR WAX



Professor
Ewa Niewiadomska

ABIOTIC STRESS RESEARCH:
REDOX SIGNALS



Professor
Ireneusz Ślesak

CYANOBACTERIA AND ALGAE RESEARCH



PhD, DSc
Ewa Surówka

ABIOTIC STRESS RESEARCH: HALOPHYTES
AND GLYCOPHYTES IN AGRICULTURE
AND BIOECONOMY

Institute of Systematics and Evolution of Animals, PAS

CRACOW



KEY RESEARCH DOMAINS

archaeozoology, biogeography, biological conservation, climate change, cytogenetics, ecology, evolution, fossil resin, integrative taxonomy, phylogeny, radiocarbon dating, systematics

ABOUT THE INSTITUTE

The Institute conducts taxonomic, phylogenetic, cytogenetics, palaeontologic, biogeographic, ecologic and related research on the evolution and biodiversity of the animal world. It also collects and stores one of the biggest natural history collections available in Poland..

INTEREST IN HORIZON EUROPE

MSCA instruments | Research Infrastructures | Cluster 6

CONTACT

Beata Grzywacz

PhD, Director of the Institute

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FEATURED ACHIEVEMENTS & FACILITIES

Papers: • Genomic origins and spread of domestic horses from the Bronze Age Pontic-Caspian steppes. *Nature* 598: 634-640 (2021); • Bird populations most exposed to climate change are less sensitive to climatic variation. *Nat Commun* 13, 2112 (2022); • Limits to reproduction and seed size-number trade-offs that shape forest dominance and future recovery. *Nat Commun* 13, 2381 (2022);

Grants: • ERC CoG: Exploring Mammoth Bone Accumulations in Central Europe (MAMBA) granted to Jarosław Wilczyński, PhD. Other achievements: • Digitization and sharing of the Scientific Zoological Collection of ISEA within projects: Open Resources in the Digital Repository of Scientific Institutes (2018-2021) and Integration and mobilization of data on Eucaryote (2020-2023).

FEATURED TEAM LEADERS



PhD
Łukasz Kajtoch

DEPARTMENT OF MOLECULAR BIODIVERSITY



PhD
Łukasz Przybyłowicz

DEPARTMENT OF INVERTEBRATE ZOOLOGY



Professor
Wiesław Krzemiński

NATURAL HISTORY MUSEUM



PhD
Jarosław Wilczyński

DEPARTMENT OF VERTEBRATE ZOOLOGY



PhD
Dawid Moroń

DEPARTMENT OF ECOLOGY

Nencki Institute of Experimental Biology, PAS

WARSAW



KEY RESEARCH DOMAINS

bio-imaging, neuroscience, cognition, neuronal plasticity, neurodegenerative diseases, neurological disorders, cancer, diabetes, metabolism, energy homeostasis, bioenergetics, epigenetics, biomedicine

ABOUT THE INSTITUTE

The Nencki Institute ranks among the leading scientific centres in Poland. Our scientists combine biology, biochemistry, and computation to understand fundamental biological processes and solve complex research problems. The main stream of research focuses on new therapies and diagnostic methods for cancer, diabetes, neurodegenerative diseases, neurological disorders, and other diseases of modern civilization. We also concentrate on innovation and education.

INTEREST IN HORIZON EUROPE

MSCA instruments | Research Infrastructures | Cluster 1 |
Widening instruments | EIC / EIT

CONTACT

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Head of the Office of International Relations
and Project Management

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FEATURED ACHIEVEMENTS & FACILITIES

State-of-the-art core facilities at the Nencki Institute support scientific research, providing a wide range of expertise, including DNA sequencing, bioinformatics, preclinical testing and biological imaging, from electron and light microscopy to magnetic resonance imaging. We also cooperate with industry to bring novel products to the pharmaceutical, biomedical, and biotechnological markets.

We conduct over 80 research projects in international co-operation with research units from 21 countries and we participate in numerous scientific consortia and research networks. Current and former EU grants include 3 ERC StG, MSCA-COFUND-DP (Bio4Med), MSCA-ITN (Foie Gras), MSCA-RISE (mtFOIE GRAS) and RIA - Research and Innovation action (ArrestAD).

FEATURED TEAM LEADERS



Professor
Bożena Kamińska-Kaczmarek
LABORATORY OF MOLECULAR NEUROBIOLOGY



PhD, DSc
Ewelina Knapska
LABORATORY OF EMOTIONS NEUROBIOLOGY



Professor
Leszek Kaczmarek
LABORATORY OF NEUROBIOLOGY



Professor
Mariusz Więckowski
LABORATORY OF MITOCHONDRIAL BIOLOGY
AND METABOLISM



Professor
Urszula Wojda
LABORATORY OF PRECLINICAL TESTING OF
HIGHER STANDARD



PhD, DSc
Grzegorz Sumara
DIOSCURI CENTER FOR METABOLIC
DISEASES

Institute of Catalysis and Surface Chemistry, PAS

CRACOW



KEY RESEARCH DOMAINS

catalytic and interface processes for industry and environment protection, biotechnology, biosynthesis, synthesis of nano-materials, nanotechnology for medicine, theranostic nanocarriers

ABOUT THE INSTITUTE

The Institute is a research institute specializing in the study of catalysis and the physics and chemistry of surfaces. The scope of the interdisciplinary research carried out by our 70 scientists encompasses chemistry, physics, nanotechnology, biotechnology, biology, and medicine. We aim to understand phenomena occurring at fluid–fluid and fluid–solid interfaces and to apply this knowledge in natural science.

INTEREST IN HORIZON EUROPE

MSCA instruments | Research Infrastructures | Cluster 4 | Cluster 5 | Cluster 6 | Widening instruments

CONTACT

Maciej Szaleniec

Professor

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FEATURED ACHIEVEMENTS & FACILITIES

A Surface Nanostructures laboratory operated together with the National Synchrotron Radiation Centre SOLARIS specializing in metallic and oxide nanostructures and the magnetic properties of layered materials; • A Joint Laboratory of Biotechnology and Enzyme Catalysis as well as a Bioprocess Development Laboratory providing expertise in the study of enzymes and biosynthesis of bioplastic-based materials; • A Laboratory of Nanotechnology and a research group for Physiochemistry of Colloidal Systems – conducting soft matter and nanotechnology research, developing new diagnostic, therapeutic, and drug delivery systems; • A Cultural Heritage Research group providing cutting-edge research and consulting services for the preservation of cultural heritage.

FEATURED TEAM LEADERS



PhD, DSc
Maciej Szaleniec

JOINT LABORATORY OF BIOTECHNOLOGY AND
ENZYME CATALYSIS



PhD, DSc
Jan Zawala

INTERFACIAL INTERACTIONS IN DISPERSED
SYSTEMS RESEARCH TEAM



PhD, DSc
Maciej Guzik

BIOPROCESS DEVELOPMENT LABORATORY



PhD, DSc
Krzysztof Szczepanowicz

NANOSTRUCTURES OF SOFT MATTER



Professor
Lukasz Bratasz

CULTURAL HERITAGE RESEARCH GROUP

Institute of Geophysics, PAS

WARSAW



KEY RESEARCH DOMAINS

anthropogenic and natural geohazard, geosystem processes, earth structure & georesources, climate change & polar regions

ABOUT THE INSTITUTE

The Institute is a multidisciplinary scientific institution dedicated to advanced research, teaching, and providing services in the field of geophysics. It is one of the largest research centers in Poland involved in monitoring the environment as well as one of the leading Polish institutions related to the Earth sciences. The Institute plays a crucial role in exploring the Earth, from the atmosphere through the hydrosphere to the deep interior of the Earth.

INTEREST IN HORIZON EUROPE

Research Infrastructures | Cluster 5

CONTACT

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Professor, Deputy Director for
Scientific Affairs

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FEATURED ACHIEVEMENTS & FACILITIES

The Institute of Geophysics is the leader of a consortium of five institutes of the Polish Academy of Sciences – known as the Earth and Planetary Research Centre (GeoPlanet) – which provides wide access to extensive infrastructure and enormous research potential. The Institute also actively participates in world studies of the polar regions. Moreover, the Institute of Geophysics manages the Stanisław Siedlecki Polish Polar Station in Hornsund in Svalbard – a unique facility with international status, which conducts year-round monitoring in this part of the Arctic, as well as the A.B. Dobrowolski Polish Antarctic Station – a scientific station located in the Bunger Oasis in East Antarctica.

FEATURED TEAM LEADERS



Professor

Stanisław Lasocki

EPOS THEMATIC CORE SERVICE
ANTHROPOGENIC HAZARDS DEPARTMENT



PhD

Agata Goździk

SCIENCE COMMUNICATION AND EDUCATION
DEPARTMENT

Institute of Low Temperature and Structure Research, PAS

WROCLAW



KEY RESEARCH DOMAINS

new materials, superconductivity, magnetism, heat transport, structural properties and phase transitions in wide temperature range from ultra-low temperatures; catalysis; optical spectroscopy, phosphors, luminescence based (bio)imaging & sensing, nano-thermometry or nano-manometry

ABOUT THE INSTITUTE

Our mission is to conduct scientific research (mostly basic, but also pre-application), to provide scientific training for researchers and specialists, to collaborate with universities and other researchers, to support governmental units in metrological duties and the popularization of knowledge.

INTEREST IN HORIZON EUROPE

MSCA instruments | Research Infrastructures | Cluster 1 | Cluster 4 | Cluster 5 | EIC / EIT

CONTACT

Magdalena Skrajnowska

Position for International Cooperation

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FEATURED ACHIEVEMENTS & FACILITIES

The Institute works on synthesizing new chemical compounds with unique properties, determining their structure, optical, magnetic, superconducting, catalytic, electrical, and thermal properties at ultra-low temperatures, under strong magnetic fields and high pressures. Experimental work is supported by theoretical modeling of their electronic and phonon properties, as well as studies of phase transitions and other critical phenomena. For a number of years, the Institute has also been involved in the interdisciplinary research in the fields of physics, chemistry, materials science, biology, and medicine. This involves modern materials for (bio)imaging and biosensing, photodynamic therapy, luminescence nano-thermometry and in theranostics. The Institute has the right to confer doctorate (PhD) and higher doctorate (DSc / habilitation) degrees in the field of physics (A category) and chemistry (A+ category).

FEATURED TEAM LEADERS



Professor

Łukasz Marciniak

LUMINESCENT NANOPARTICLE FOR SENSING AND IMAGING LUNASI GROUP, DIVISION OF BIOMEDICAL PHYSICO-CHEMISTRY



Professor

Tomasz Cichorek

LABORATORY FOR LOW TEMPERATURE PHYSICS



Professor

Artur Bednarkiewicz

LUMINESCENT NANOPARTICLE ASSISTED SENSING AND IMAGING GROUP (LUNASI), DIVISION OF BIOMEDICAL PHYSICO-CHEMISTRY



Professor

Rafał Wiglusz

BBRA - BIOMATERIALS FOR BIO-RELATED APPLICATIONS, DIVISION OF BIOMEDICAL PHYSICO-CHEMISTRY

Institute of Oceanology, PAS

SOPOT



KEY RESEARCH DOMAINS

climate change, marine environment, biodiversity, coastal ecosystems, marine organisms, carbon cycle in the marine environment biotechnology, genetic and physiological mechanisms

ABOUT THE INSTITUTE

Our mission is to conduct marine environment research in order to expand knowledge of marine processes and phenomena. This research focuses on four strategic fields: the role of the oceans in climate change and its effects on European seas; natural and anthropogenic variability of the Baltic Sea environment; contemporary changes in the coastal ecosystems of shelf seas; genetic and physiological mechanisms of the functioning of marine organisms.

INTEREST IN HORIZON EUROPE

MSCA instruments | Cluster 5 | Cluster 6

CONTACT

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Scientific Secretariat

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FEATURED ACHIEVEMENTS & FACILITIES

Modern laboratories, multi-year data series, and our own research vessel, the S/Y “Oceania”, enable us to conduct specialized high-standard interdisciplinary research in the European seas. We also work to popularize knowledge about the sea. Our Climate and Ocean Research and Education Laboratory is engaged in a series of activities to boost ocean literacy among local communities. The Institute has the right to confer doctorate (PhD) and higher doctorate (DSc / habilitation) degrees in the field of natural sciences, in the discipline of Earth and related environmental sciences.

FEATURED TEAM LEADERS



Professor

Ksenia Pazdro

MARINE CHEMISTRY & BIOCHEMISTRY
DEPARTMENT



Professor

Mirosław Darecki

MARINE PHYSICS DEPARTMENT



Professor

Jacek Piskozub

PHYSICAL OCEANOGRAPHY DEPARTMENT



Professor

Artur Burzyński

GENETICS & MARINE BIOTECHNOLOGY
DEPARTMENT



Professor

Maria Włodarska-Kowalczyk

MARINE ECOLOGY DEPARTMENT



Professor

Marek Zajäckowski

DEPARTMENT OF PALEOCEANOGRAPHY

Institute of Organic Chemistry, PAS

WARSAW



KEY RESEARCH DOMAINS

organic synthesis, catalysis, reaction mechanisms, supramolecular chemistry, spectroscopy, organocatalysis, functional materials and dyes, C- H activation, photochemistry, computer-aided synthesis

ABOUT THE INSTITUTE

The Institute is a leading Polish research unit in the field of organic chemistry. The main lines of research concern the methodology of organic synthesis, catalysis, and reaction mechanisms. The chemistry of porphyrinoids, supramolecular chemistry, and computer-aided organic synthesis are being investigated. Our researchers publish articles in the world's best journals. Currently, research is being conducted by 138 scientists, including 41 PhD students. The Institute is authorized to award the degree of doctor of chemical sciences.

INTEREST IN HORIZON EUROPE

MSCA instruments | Research Infrastructures | Cluster 5 |
Cluster 6 | Widening instruments | EIC / EIT

CONTACT

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Professor, Research Director

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FEATURED ACHIEVEMENTS & FACILITIES

The Institute is an “A+” class scientific institution and holds the “HR Excellence in Research” distinction. The Institute's activities are carried out by 27 research teams. It has world-class equipment and operates two scientific centres – the Centre for Intelligent Catalysis and the Functional Dyes Centre. Globally innovative synthesis technologies have been developed at the Institute, such as: synthesis of simple sugars (Zamojski, 1970s), vicarious nucleophilic substitution of hydrogen (Mąkosza, 1980s), the synthesis of aza-crown ethers (Jurczak, 2000), new catalysts for olefin metathesis (Grela, 2005), the synthesis of corroles (Gryko, 2006), and development of the software program CHEMATICA (Grzybowski, 2016). These findings have put the Institute at the forefront of both Polish and European science.

FEATURED TEAM LEADERS



Professor
Dorota Gryko

LABORATORY OF SUSTAINABLE CATALYSIS



Professor
Daniel Gryko

ERC ADVANCED GRANT MANAGER -
ARCHIMEDES
LABORATORY OF FUNCTIONAL DYES



PhD
Marcin Lindner

LABORATORY OF FUNCTIONAL AROMATIC
COMPOUNDS



Professor
Agnieszka Szumna

MOLECULAR RECOGNITION GROUP

Institute of Physical Chemistry, PAS

WARSAW



KEY RESEARCH DOMAINS

physical chemistry; chemistry inspired by biology/medicine, pharmacy, physics, environmental chemistry, optics, biophotonics, renewable energy sources, medical diagnostics

ABOUT THE INSTITUTE

The Institute ranks among the top 5% of Polish research units in terms of research excellence (“A+”) and holds the “HR Excellence in Research” distinction. We pursue research in the fields of chemistry & physics inspired by biology/medicine, successfully employing methods of physical chemistry to study biological systems. Our researchers publish 300 papers & submit 15 patent applications per year. The Institute of Physical Chemistry is a co-founder of several spin-offs, one of them (Curiosity Diagnostics) having recently been sold to Bio-Rad Labs for \$170M.

INTEREST IN HORIZON EUROPE

MSCA instruments | Cluster 1 | Cluster 5 | Cluster 6 | Widening instruments | EIC / EIT

CONTACT

Agnieszka Tadrzak

Representative for R&D funding

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FEATURED ACHIEVEMENTS & FACILITIES

The Institute hosted ERC StG (microCODE) and set the ERA Chair (H2020, CREATE) that later transformed into a centre of excellence (International Centre for Translational Eye Research). In collaboration with UCL and the University of California, ICTER develops hi-tech solutions for diagnosing & treating eye diseases.

Together with the Max Planck Institute for Evolutionary Biology, the Institute has established the Dioscuri Centre for Physics & Chemistry of Bacteria to study the evolution of pathogenic bacteria (co-funded by Poland & Germany).

We are also a part of the Virtual Research Institute carrying out research under the project “Horizon for Excellence in messenger RNA applications in immunOncology” (funded with EUR15M.) and implement two MSCA Cofund projects (NaMeS and PD2PI).

FEATURED TEAM LEADERS



PhD, DSc

Agnieszka Michota-Kamińska

PLASMONIC NANOSTRUCTURES FOR
BIOSPECTROSCOPIC ANALYSES



Professor

Joanna Niedziółka-Jönsson

SURFACE NANOENGINEERING GROUP



PhD

Bartłomiej Wacław

DIOSCURI CENTRE FOR PHYSICS AND
CHEMISTRY OF BACTERIA



Professor

Maciej Wojtkowski

INTERNATIONAL CENTRE FOR
TRANSLATIONAL EYE RESEARCH



Professor

Janusz Lewiński

COORDINATION METAL COMPLEXES AND
FUNCTIONAL MATERIALS



Professor

Robert Hołyst

SOFT CONDENSED MATTER GROUP

Space Research Centre, PAS

WARSAW



KEY RESEARCH DOMAINS

earth observations, cosmic weather, heliophysics, space engineering, space technology

ABOUT THE INSTITUTE

The Centre is an interdisciplinary scientific institute that carries out scientific and technical work in space physics and physical and geodynamic studies of the Earth and planets. A distinctive feature of the Centre is combining research and construction activities: we design and build space devices, as well as analyze the data they obtain.

INTEREST IN HORIZON EUROPE

MSCA instruments | Research Infrastructures | Cluster 4 |
Widening instruments | EIC / EIT

CONTACT

Ewelina Zambrzycka-Kościelnicka

Media Relation Specialist

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FEATURED ACHIEVEMENTS & FACILITIES

The Space Research Centre continually promotes Poland's involvement in international space missions, works for the development of the country's space policy, initiates the transfer of space technology from science to industry, and trains personnel for the Polish space business. Our specialists have contributed to over 70 space missions and sent over 100 scientific instruments into space. We work with the European Space Agency, NASA, and many other partners.

We have been a part of several breakthrough space missions, including: • Cassini-Huygens, the iconic mission to Saturn and its moons, • Rosetta, the first historic landing on a comet nucleus, • The ExoMars Trace Gas Orbiter, • two heliospheric NASA missions IBEX and IMAP, • BepiColombo, the mission exploring Mercury.

FEATURED TEAM LEADERS



PhD, DSc
Stanisław Lewiński
EARTH OBSERVATION DIVISION



PhD
Jakub Ryzenko
CRISIS INFORMATION CENTRE



Professor
Włodzimierz Kofman
MARS EXPLORATION LABORATORY

Institute of Chemical Engineering, PAS

GLIWICE



KEY RESEARCH DOMAINS

greenhouse gases, biodegradation of organic compounds, air bio-purification, nanomaterials, microreactors, chemical reactor engineering, catalytic structural reactors, bubble reactors

ABOUT THE INSTITUTE

The Institute is a research center with a long tradition which is focused on problems related to the disposal or management of waste streams for the sake of environmental protection, and therefore human health and life. Its most valuable capital lies in its employees – passionate people who are eager to use their knowledge and skills to face new challenges. Their research, often conducted in collaboration with national and foreign centers, results in patents, high-impact publications, and awards.

INTEREST IN HORIZON EUROPE

Cluster 5 | Cluster 6

CONTACT

Anna Szczotka

Project Coordinator

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FEATURED ACHIEVEMENTS & FACILITIES

The environmental protection related technologies developed at the Institute have won numerous prizes at national and international fairs of inventions and innovations, such as the WIPO medal (2021) in the Innovations for the European Green Deal category, for gas purification in a trickle-bed bioreactor. The Institute's facilities support research and technology development in the fields of: • modern separation techniques, capture of greenhouse gases and biogas enrichment, • biotechnology, biodegradation of organic compounds, gas bio-purification, • nanomaterials with a hierarchical pore structure and microreactors, • reactor engineering, catalytic structural reactors, CFD modeling, trickle-flow reactors, mass and heat exchange, bubble reactors.

FEATURED TEAM LEADERS



PhD

Agnieszka Ciemięga

LABORATORY OF FUNCTIONAL MATERIALS AND MICROREACTORS



PhD

Agnieszka Gąszczak

LABORATORY OF BIOREACTORS AND BIOCATALYTIC PROCESSES



PhD

Anna Pawlaczyk-Kurek

LABORATORY OF GAS AND LIQUID SEPARATION



PhD

Marzena Iwaniszyn

LABORATORY OF STRUCTURAL CATALYTIC REACTORS

Institute of Computer Science , PAS

WARSAW



KEY RESEARCH DOMAINS

linguistic engineering, amassing great collections of text documents, web services; software verification methods and security, data, applications & data transmission protocols, cryptographic research

ABOUT THE INSTITUTE

The mission of the Institute, as one of the leading CS research centres in Poland, is to conduct research on the highest world level, to teach on the master's and especially doctorate levels of higher education, as well as to cooperate, and coordinate cooperation, with other research centres under the framework of large IT projects.

INTEREST IN HORIZON EUROPE

MSCA Instruments | Cluster 3 | Cluster 4 | Research Infrastructures

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

We strive to maintain and reinforce basic research in Computer Science – mathematical research or close to mathematics (e.g. logics, graphs theory, cryptography, links with information theory, analysis of regression models and other areas of probability theory), with an emphasis on developing original solutions of evidently high application potential (e.g. computerized linguistics and knowledge discovery systems).

This is why the starting point of research activities should be basic research – from the mathematical, logical, and information theory foundations of Computer Science, to work in the fields of distributed systems, cryptography, machine learning, linguistic engineering and information extraction from big document collections.

FEATURED TEAM LEADERS



Professor

Mieczysław Kłopotek

ARTIFICIAL INTELLIGENCE FUNDAMENTAL
RESEARCH LABORATORY



PhD, DSc

Paweł Morawiecki

CRYPTOGRAPHY TEAM



Professor

Szymon Jaroszewicz

STATISTICAL ANALYSIS AND MODELING GROUP

Institute of Environmental Engineering, PAS

ZABRZE



KEY RESEARCH DOMAINS

environmental engineering, air pollution control, water pollution control, waste and water management, land reclamation, effects of diffuse pollutants on the environment, certified research laboratory

ABOUT THE INSTITUTE

The Institute is the oldest scientific institution in Poland conducting comprehensive basic and applied research in the field of environmental engineering, dealing with technical, scientific, spatial, legal, and economic issues. The Institute has more than 60 years of experience in scientific and applied research. We are active in the field of protecting the air, water and Earth's surface.

INTEREST IN HORIZON EUROPE

Cluster 6 | EIC / EIT

CONTACT

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Professor, Director

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FEATURED ACHIEVEMENTS & FACILITIES

The Institute's activities focus on the following areas: pollution of the air with harmful substances (including industrial, municipal, and transportation-related emissions of pollutants to the air); pollution of surface waters and control of eutrophication of water reservoirs; the use of magnetometry in environmental research; contamination of soil surfaces with heavy metals and organic compounds; technologies for waste treatment; removal of inorganic and organic pollutants by sorption processes; the design and preservation of urban spaces.

Our laboratory performs accredited analyzes of water, wastewater, soil, waste and measurements of gas and dust concentrations of air pollutants (quality management system ISO17025:2018, confirmed by PCA certificate AB950).

FEATURED TEAM LEADERS



PhD, DSc

Magdalena Jabłońska-Czapla

DEPARTMENT OF WASTE MANAGEMENT AND ENVIRONMENTAL ANALYZES



Professor

Tadeusz Magiera

DEPARTMENT OF ENVIRONMENTAL MAGNETISM AND RECLAMATION



PhD

Krzysztof Klejnowski

DEPARTMENT OF AIR PROTECTION - POLLUTION IMMISSION TEAMPHYSICOHEMISTRY

Institute of Fundamental Technological Research, PAS

WARSAW



KEY RESEARCH DOMAINS

mechanical engineering, material engineering, information technology and telecommunications, automation, electronics, electrotechnology, biomedical engineering

ABOUT THE INSTITUTE

The main task of the Institute is to conduct high quality research in a variety of areas which are all at the global forefront of science and technology. With 70 years of experience, we share our commitment and passion in pursuing cutting-edge scientific research of the highest standards. We create international scientific projects, educate doctoral students, contribute to the development of science and support initiatives in technology transfer. We take pride in ranking among the leading scientific centers in Europe.

INTEREST IN HORIZON EUROPE

Cluster 4

CONTACT

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Director's Representative for Research

Career Development

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FEATURED ACHIEVEMENTS & FACILITIES

The Institute's activities focus on the following areas: pollution of the air with harmful substances (including industrial, municipal, and transportation-related emissions of pollutants to the air); pollution of surface waters and control of eutrophication of water reservoirs; the use of magnetometry in environmental research; contamination of soil surfaces with heavy metals and organic compounds; technologies for waste treatment; removal of inorganic and organic pollutants by sorption processes; the design and preservation of urban spaces.

Our laboratory performs accredited analyzes of water, wastewater, soil, waste and measurements of gas and dust concentrations of air pollutants (quality management system ISO17025:2018, confirmed by PCA certificate AB950).

FEATURED TEAM LEADERS



Professor

Michał Basista

DIVISION OF ADVANCED COMPOSITE MATERIALS,
DEPARTMENT OF MECHANICS OF MATERIALS

Mineral and Energy Economy Research Institute, PAS

CRACOW



KEY RESEARCH DOMAINS

mineral and natural resources management, circular economy, sustainable development, renewable energy sources and electromobility, energy and fuels management, environmental engineering, geophysics

ABOUT THE INSTITUTE

The Institute is an important research and development institution, contributing to scientific and research progress in the field of mineral and energy management, in Poland and abroad. The interdisciplinary nature of the Institute's activities encompasses in particular the following research fields and disciplines: • environmental engineering • mining • power engineering • engineering and applied geology • geophysics • chemical and materials engineering • IT engineering in mining and energy.

INTEREST IN HORIZON EUROPE

MSCA instruments | Research Infrastructures | Cluster 4 | Cluster 5 | Cluster 6 | EIC / EIT

CONTACT

Magdalena Wdowin

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FEATURED ACHIEVEMENTS & FACILITIES

The Institute employees more than 140 people, being an important R&D institution with the “A” scientific category. The Institute carries out the project “Centre for Sustainable Management of Minerals and Energy”, co-financed from the Regional Operational Programme of Małopolska Voivodeship for the years 2014-2020, in tandem with the companies ZGH Bolesław S.A., Geotermia Mazowiecka S.A. and EGM S.A. as partners. Within this project a modern laboratory and office building in Kraków will be opened in 2023, housing:

- a Comprehensive Waste and Biomass Research Laboratory
- an Engineering Modeling Laboratory • an Engineering Geophysics Laboratory.

The existing Geothermal Laboratory in Bańska Nizna near the Tatra Mts. will also be expanded. For this investment project, the Institute has received four awards.

FEATURED TEAM LEADERS



Professor
Wiesław Bujakowski
DIVISION OF RENEWABLE ENERGY SOURCES



Professor
Joanna Kulczycka
DIVISION OF STRATEGIC RESEARCH



Professor
Marzena Smol
DIVISION OF BIOGENIC RAW MATERIALS



Professor
Lidia Gawlik
DIVISION OF MINERALS AND ENERGY SUSTAINABLE DEVELOPMENT



PhD
Alicja Kot-Niewiadomska
DIVISION OF MINERAL POLICY



Professor
Magdalena Wdowin
DIVISION OF APPLIED GEOCHEMISTRY AND ENVIRONMENTAL ENGINEERING

Hirszfeld Institute of Immunology and Experimental Therapy, PAS

WROCLAW



KEY RESEARCH DOMAINS

immunology, experimental oncology, microbiology, immunochemistry, glycobiology medicine, civilization diseases, new drugs, vaccines, regenerative medicine, veterinary science

ABOUT THE INSTITUTE

The Institute is a leading research center in immunology, experimental oncology, microbiology, immunochemistry, glycobiology and medicine – with a focus on civilization diseases, new drugs and vaccines, and regenerative medicine, and with a proven track record of implementation and commercialization of the results. It has an “A+” category in medicine and an “A” category in life science, and it employs a total of 243 people, including 95 researchers.

INTEREST IN HORIZON EUROPE

MSCA instruments | Research Infrastructures | Cluster 1 | Cluster 3 | Cluster 6 | Widening instruments

CONTACT

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Head of the Project Department

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FEATURED ACHIEVEMENTS & FACILITIES

The Institute's activities are carried out by 23 laboratories or research facilities, in close cooperation with integral units such as the Medical Center (with the Phage Therapy Center), the Polish Collection of Microorganisms (PCM, WFCC no 106), the Cell Line Collection, the NeoLek Laboratory (innovative medical technologies), equipment laboratories (e.g. mass spectroscopy, cytometry, confocal microscopy), the Animal Laboratory, and the General Chemistry Laboratory. In the spring of 2020, in response to the coronavirus pandemic, the SARS-CoV-2 Infection Diagnostic Laboratory was opened. The Institute holds GLP certificates and QM ISO 9001:2015 certification. It develops a clinical trials center with focus on vaccines and specialized therapies (e.g. phage therapy).

FEATURED TEAM LEADERS



Professor
Andrzej Gamian
LABORATORY OF MEDICAL MICROBIOLOGY



Professor
Aleksandra Klimczak
LABORATORY OF BIOLOGY OF STEM AND NEOPLASTIC CELLS



Professor
Jolanta Łukasiewicz
LABORATORY OF MICROBIAL IMMUNOCHEMISTRY AND VACCINES



PhD
Joanna Wietrzyk
LABORATORY OF EXPERIMENTAL ANTICANCER THERAPY



Professor
Andrzej Górski
BACTERIOPHAGE LABORATORY



PhD, DSc
Sabina Górská
LABORATORY OF MICROBIOME IMMUNOBIOLOGY

KEY RESEARCH DOMAINS

molecular cell biology, biochemistry, pathogenesis and treatment of human diseases, stem cells, metabolism, signal transduction, proteomics, metabolomics, genomics, structural biology, virology

ABOUT THE INSTITUTE

The Institute is the first new international scientific institute in biological sciences to be created within the Polish Academy of Sciences in over 25 years. It is devoted to basic research that combines expertise from different research fields in line with the highest international standards. The Institute acts in a partnership with the University Medical Center in Göttingen and is supported by the International Scientific Board chaired by Prof. Phillip A. Sharp, 1993 Nobel Prize winner for Physiology or Medicine.

INTEREST IN HORIZON EUROPE

MSCA instruments | Cluster 1 | Widening instruments

CONTACT

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PhD, Head of the Grant Office

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FEATURED ACHIEVEMENTS & FACILITIES

The Institute is led by Professors A. Chacińska and M. Konarska and is scientifically based on ReMedy “Regenerative Mechanisms for Health”, a unit of the International Research Agendas program of the Foundation for Polish Science. The Institute encompasses 11 research groups and a Proteomics Core Facility. Scientists carry out projects financed by various national (FNP, NCN) and international (EMBO) funding agencies. The infrastructure of the Institute includes fully equipped open space laboratories and cell culture rooms with hoods and cell incubators. There is also common and more specialized equipment for molecular biology and biochemistry, including microscopes, a flow cytometer, qPCR machine, and device for preparation of single cell sequencing libraries.

FEATURED TEAM LEADERS



Professor

Agnieszka Chacińska

LABORATORY OF MITOCHONDRIAL BIOGENESIS



PhD

Anna Marusiak

LABORATORY OF MOLECULAR ONCOSIGNALLING



PhD

Abdelhalim Azzi

LABORATORY OF LIPIDS AND CHRONOBIOLOGY



PhD

Piotr Gerlach

LABORATORY OF STRUCTURAL VIROLOGY



PhD

Maciej Cieśla

LABORATORY OF STEM CELL RNA METABOLISM



PhD

Karolina Szczepanowska

LABORATORY OF METABOLIC QUALITY CONTROL

Institute of Human Genetics, PAS

POZNAN



KEY RESEARCH DOMAINS

cytogenetics, molecular and population genetics, cellular pathology, reproductive biology, mutagenesis, biotechnology, transgenesis, genomics, transcriptomics, epigenomics, proteomics, diagnostics

ABOUT THE INSTITUTE

The Institute is a key research center in its field in Poland, with broad scientific expertise in investigating the functions of the genome, transcriptome, epigenome, and the molecular basis of genetic diseases. As a holder of the “HR Excellence in Research” distinction, we create a friendly environment for young scientists, enabling professional development through work with dedicated teams, participation in research projects and seminars. Our goal is to continually maintain the highest quality of research and scientific excellence.

INTEREST IN HORIZON EUROPE

MSCA instruments | Research Infrastructures | Cluster 1 |
Widening instruments | EIC / EIT

CONTACT

Marta Anders

Coordinator for Research Projects

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FEATURED ACHIEVEMENTS & FACILITIES

Our facilities comprise a Department of Genetic Engineering, equipped for instance with a Sanger-method SeqStudio™ Genetic Analyzer System (ThermoFisher) and next-generation sequencing instruments MiniSeq and NextSeq2000 Illumina; a Class II Isotope Laboratory authorized for the use of open sources of radioactive isotopes; a COVID-19 Diagnostic Lab and an Innovative Medical Center providing DNA/RNA sequencing, spatial transcriptomics and single-cell analysis services; a Lab for Advanced Imaging of Tissue Models, equipped for instance with a Leica DMI8 confocal microscope with an organ-on-chip module and a BRUKER NanoWizard Sense Atomic Force Microscope; an Animal Repository with unique animal models and an operating room for small animals.

FEATURED TEAM LEADERS



Professor
Michał Witt

DEPARTMENT OF MOLECULAR AND CLINICAL GENETICS



PhD
Agnieszka Dzikiewicz-Krawczyk

RESEARCH GROUP OF NON-CODING PARTS OF THE GENOME



Professor
Maciej Giefing

DEPARTMENT OF CANCER GENETICS



PhD
Marzena Skrzypczak-Zielińska

DEPARTMENT OF NUCLEIC ACID FUNCTION



PhD
Natalia Rozwadowska

MOLECULAR PATHOLOGY DEPARTMENT



Professor
Maciej Kurpisz

DEPARTMENT OF REPRODUCTIVE BIOLOGY AND STEM CELLS

Maj Institute of Pharmacology, PAS

CRACOW



KEY RESEARCH DOMAINS

pharmacology, neuropsychopharmacology, drug chemistry, phytochemistry, pharmacokinetics, drug metabolism, neuro-endocrinology, electrophysiology, pharmacogenomics, in silico drug design

ABOUT THE INSTITUTE

The Institute, founded in 1974 and located in Kraków, is currently one of the leading scientific institutions in Poland focused on neuro- and psychopharmacology. The Institute's core research areas are the mechanisms and treatment of depression, schizophrenia, chronic pain, addiction, anxiety, post-traumatic stress disorder as well as neurodegenerative diseases.

INTEREST IN HORIZON EUROPE

MSCA instruments | Research Infrastructures | Cluster 1 |
Cluster 6 | Widening instruments

CONTACT

Jan Rodriguez Parkitna

PhD, Deputy Director for Scientific Research

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FEATURED ACHIEVEMENTS & FACILITIES

The Institute has extensive facilities dedicated to comprehensive behavioral testing of animal models of neuropsychiatric diseases. These include validated rat and mouse models of affective disorders, cognitive impairments, substance use disorders and neurodegenerative diseases, which are used for research on existing drugs or testing of novel drug candidates developed. Behavioral analyses are complemented with advanced electrophysiology, neurochemistry, and cellular models as well as all state-of-the-art imaging methods. The Institute has developed a strong competence in in silico drug analysis and pharmacogenomics. Research is supported by central labs providing confocal microscopy, mass spectrometry, and flow cytometry.

FEATURED TEAM LEADERS



Professor
Marzena Maćkowiak

LABORATORY OF PHARMACOLOGY AND
BRAIN BIOSTRUCTURE, DEPARTMENT OF
PHARMACOLOGY



Professor
Agnieszka Basta-Kaim

DEPARTMENT OF EXPERIMENTAL
NEUROENDOCRINOLOGY/LABORATORY OF
IMMUNOENDOCRINOLOGY



Professor
Agata Faron-Górecka

DEPARTMENT OF PHARMACOLOGY,
LABORATORY OF BIOCHEMICAL
PHARMACOLOGY



Professor
Małgorzata Filip

DEPARTMENT OF DRUG ADDICTION
PHARMACOLOGY



Professor
Krystyna Gołębiewska

RESEARCH TEAM NO 2, DEPARTMENT OF PHARMA
COLOGY



PhD, DSc
Grzegorz Kreiner

DEPARTMENT OF BRAIN BIOCHEMISTRY

MSCA



MSCA

Marie Skłodowska-Curie Actions

Marie Skłodowska-Curie Actions – as a part of 1st pillar of [Horizon Europe](#) – fund excellent research and innovation and equip researchers at all stages of their career with new knowledge and skills, through mobility across borders and exposure to different sectors and disciplines. **The MSCA help build Europe's capacity for research and innovation by investing in the long-term careers of excellent researchers.** By doing so, they achieve a structuring impact on higher education institutions, research centres and non-academic organisations.

The MSCA promote excellence and set standards for high-quality researcher education and training in line with [the European Charter for Researchers](#) and the [Code of Conduct](#) for the recruitment of researchers.

Source: [MSCA website](#)



PhD

Jagoda Kaszowska-Mojša

MODELLING FOR PUBLIC POLICY PURPOSES (MPP)

INSTITUTE OF ECONOMICS, PAS

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**EXPERTISE**

Our research team is focused on creating models for simulating and forecasting public policy. In particular, we are interested in providing insights about the effects of potential, not yet implemented, policies for the economy, financial system, and society. We have worked on financial stability, systemic risk, and the welfare effects of macroprudential policies. Currently, we are working on incorporating AI components within agent-based models.

SEEKING FOR COLLABORATION WITHIN

financial stability, macroprudential policies, systemic risk, inequality, agent-based modelling

RELEVANT PROJECTS[MACROPRU](#)

Fulbright Junior Advance Research Award



PhD

Bogumił Szady

MODELLING SPATIAL KNOWLEDGE

INSTITUTE OF HISTORY, PAS

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**EXPERTISE**

Our Department develops domain formal ontologies modelling knowledge about the settlement network and administrative units, its features and relations. These elements are an important part of research on historic space. We develop ontologies of manifestations, which is a strategy of modelling phenomena changing over time. The domain ontologies we build refer to upper-level ontologies, such as CIDOC-CRM, BFO (Basic Formal Ontology), etc., to build infrastructure for digital research.

SEEKING FOR COLLABORATION WITHIN

geography, history, philosophy, knowledge acquisition, information science

RELEVANT PROJECTS[ONTOHGIS](#)

PhD

Wiesława Duży

MODELLING SPATIAL KNOWLEDGE

INSTITUTE OF HISTORY, PAS

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**EXPERTISE**

Our Department develops domain formal ontologies modelling knowledge about the settlement network and administrative units, its features and relations. These elements are an important part of research on historic space. We develop ontologies of manifestations, which is a strategy of modelling phenomena changing over time. The domain ontologies we build refer to upper-level ontologies, such as CIDOC-CRM, BFO (Basic Formal Ontology), etc., to build infrastructure for digital research.

SEEKING FOR COLLABORATION WITHIN

geography, history, philosophy, knowledge acquisition, information science

RELEVANT PROJECTS[URBANONTO](#)



PhD

Tomasz Panecki

RESEARCH IN SPATIAL HISTORY,
HISTORICAL GEOGRAPHY & CARTOGRAPHY

INSTITUTE OF HISTORY, PAS

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EXPERTISE

Our Department specialises in broadly-construed spatial history, historical geography & cartography. Our expertise stems mainly from the series “Historical Atlas of Poland: Detailed Maps of the 16th century”, which also provides a complete network of localities & administrative boundaries. Experience gained from working on this series will be useful in preparing similar datasets from subsequent timeframes. The data should be treated as a starting point for further research, e.g. on social, economic, political & cultural history.

SEEKING FOR COLLABORATION WITHIN

geography, history, history of cartography, historical cartography

RELEVANT PROJECTS

[AHP](#)


PhD

Adam Zapala

DIGITAL INFRASTRUCTURE FOR HUMANITIES

INSTITUTE OF HISTORY, PAS

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EXPERTISE

The expertise of the interdepartmental DARIAH. Lab team at the Institute of History lies in preparing digital tools for the humanities & arts. Our work focuses on providing reliable reference databases for people & places in the past, preparing scholarly digital editions.

SEEKING FOR COLLABORATION WITHIN

editors/holders of historical materials, authority files creators, creators of digital repositories

RELEVANT PROJECTS

[DARIAH](#)


Professor

Monika Rudaś-Grodzka

WOMENS ARCHIVE WORKING GROUP

INSTITUTE OF LITERARY RESEARCH, PAS

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EXPERTISE

The Women's Archive team is focused on the study of women's artistic creativity, autobiographic writing and biographies – mostly, but not exclusively in the area of Polish culture. It initiates and manages scholarly and popularization-oriented projects (e.g. exhibitions), by using and spreading methods of feminist critique, ecocriticism, queer studies, and other modern approaches. The team also specialises in modern research on women's archival legacies. The Women's Archive team would be pleased to cooperate with other scholars interested in research on women's creativity, autobiographic writing, archives or biographies in Poland, as part of the capabilities offered by the MSCA program.

SEEKING FOR COLLABORATION WITHIN

women's autobiographic writing, women's biographies, women's archives, women's creativity, online database

RELEVANT PROJECTS

SOLSKA; [Women's Archive – writing women](#)

Gender Encyclopedia: gender in culture; [Women Writers Route](#)



PhD

Maciej Maryl

DIGITAL HUMANITIES CENTRE

INSTITUTE OF LITERARY RESEARCH, PAS

MACIEJ.MARYL@IBL.WAW.PL

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EXPERTISE

We have several PhD candidates and early-career researchers on our teams, keen to develop their academic careers and continue their involvement in international projects. We have diverse interests in the field of digital humanities: digital tools and methods in literary and cultural studies, corpus linguistics, digital editing, open scholarly communication (including innovations and social media), data, programming, user and stakeholder research. We are experienced in a variety of methods from desk research, through text analysis, to interviews, focus groups, and user testing.

SEEKING FOR COLLABORATION WITHIN

digital tools and methods, digital editing, open scholarly communication, UX and stakeholder research

RELEVANT PROJECTS

[SHAPE-ID](#)[OBERRED](#)[Dariah.Lab](#)[NEP4DISSENT](#)

PhD, DSc

Marcin Miłkowski

SECTION FOR LOGIC AND COGNITIVE SCIENCE

INSTITUTE OF PHILOSOPHY AND SOCIOLOGY,
PASMMILKOWS@IFISPAN.EDU.PL

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EXPERTISE

The research undertaken by the team focuses on two main streams: logic and cognitive science. We edit *Studia Logica* – an international logical journal, founded in 1953 by Kazimierz Ajdukiewicz. Research on cognitive science performed by the members of the section focuses on the analyses of the structure of theory in cognitive sciences, their methodology and practice. In particular, the focus is on problems in the mathematical modeling of cognitive systems.

SEEKING FOR COLLABORATION WITHIN

logic, philosophy of cognitive science, digital philosophy of science

RELEVANT PROJECTS

[Cognitive Science in Search of Unity](#)

NCN/PRELUDEMBIS2

NCN/SONATINA6

NCN/SONATINA6



Professor

Anna Zielińska

DEPARTMENT OF LINGUISTICS

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EXPERTISE

I conduct research in the fields of dialectology, sociolinguistics, multilingualism, language contacts, language borderlands. I am the PI of the Polish-German research project “Language across generations: contact induced change in morpho-syntax in German-Polish bilingual speech” (financed by the NCN and DFG). This project aims to create an integrated description of Polish-German bilingualism in Poland and Germany, covering both grammar and sociolinguistic issues.

SEEKING FOR COLLABORATION WITHIN

language contacts, multilingualism, studies of multilingual communities, linguistic biographies

RELEVANT PROJECTS

[LANGGENER](#)



PhD, DSc

Nicole Dołowy-Rybińska

DEPARTMENT OF LINGUISTICS

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**EXPERTISE**

Our research team works on minority and minoritized languages of Europe and their communities in a broad political, cultural, and linguistic context. We pursue anthropological and sociolinguistic research that touches upon such issues as language policies, language practices, shift and attitudes, language rights, and language maintenance and revitalization.

SEEKING FOR COLLABORATION WITHIN

sociolinguistics, multilingualism, minorities and borderlands, language revitalization

RELEVANT PROJECTS[NCN/SonataBis](#)[NCN/OPUS](#)[SORBIAN](#)

PhD

Karolina Ćwiek-Rogalska

DEPARTMENT OF LITERARY AND CULTURAL STUDIES

INSTITUTE OF SLAVIC STUDIES, PAS

KAROLINA.CWIEK-ROGALSKA@ISPAN.EDU.PL

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**EXPERTISE**

Our team is interested in the emergence of re-settlement cultures in post-displacement regions of Slavic Central Europe. The hypothesis we follow is that they are formed in contact with the materiality left behind by expellees. We work on Polish, Czech, and Slovak case studies, conducting fieldwork in selected regions as well as archival search queries in national and local archives.

SEEKING FOR COLLABORATION WITHIN

studies of material culture

RELEVANT PROJECTS[SPECTRAL RECYCLING](#)

PhD, DSc

Grażyna Szwał-Gyłybowa

DEPARTMENT OF LITERARY AND CULTURAL STUDIES

INSTITUTE OF SLAVIC STUDIES, PAS

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**EXPERTISE**

The research interests of our team focus on the issues of cultural change in the Balkan area, national and minority issues. In particular, we are interested in cultural transfers, the migration of ideas, topoi and myths, and non-obvious relations between centers of symbolic power. We direct attention to all layers of South Slavic cultures (from folklore, to popular culture, to artistic practices addressed to a narrow audience).

SEEKING FOR COLLABORATION WITHIN

cultural history of the Balkans, history of ideas, popular culture, culture transfer, memory studies

RELEVANT PROJECTS[NCN/OPUS](#)



PhD

Anna Zawadzka

DEPARTMENT OF NATIONALITY STUDIES

INSTITUTE OF SLAVIC STUDIES, PAS

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EXPERTISE

My research fields are as follows: current historical politics in post-communist countries; the history of anticommunism in comparative perspectives; studies of antisemitism; synergy of antisemitism and anticommunism; the history, socio-political functions, and consequences of the “Jewish Bolshevism” stereotype; studies of the “Jewish Bolshevism” stereotype in an East-West comparative perspective; the social history of cold war era in Eastern and Central Europe; studies of prejudice.

SEEKING FOR COLLABORATION WITHIN

comparative studies of historical politics in Central and Eastern Europe

RELEVANT PROJECTS

[NCN funded project](#)
[The Center for Cultural and Literary Studies of Communis](#)


PhD, DSc

Maciej Figiel

DEPARTMENT OF MOLECULAR NEUROBIOLOGY

INSTITUTE OF BIOORGANIC CHEMISTRY, PAS

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EXPERTISE

Our team studies the pathogenesis and therapy of neurodegeneration in model diseases such as polyglutamine Huntington’s disease, juvenile HD, and SCA3/MJD. We define the earliest pre-symptomatic developmental pathogenesis using early brain models such as organoids, single-cell RNAseq, and proteomics. We investigate shRNA and AAV-based therapies (silencing or gene delivery) in our Knock-in SCA3 mouse and humanized HD mouse models model using BBB permeable AAV or AAV brain injections.

SEEKING FOR COLLABORATION WITHIN

neurodegeneration, brain, AAV drugs, organoids, HCS, microscopy, animal models, therapy, proteomics

RELEVANT PROJECTS

[SCACYP](#)
[TreatPolyQ](#)
[National Ataxia Foundation funded project](#)




PhD

Łukasz Kajtoch

DEPARTMENT OF MOLECULAR BIODIVERSITY

INSTITUTE OF SYSTEMATICS AND EVOLUTION
OF ANIMALS, PAS


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EXPERTISE

Our research is focused on the evolution and ecology of insects. In particular, we are interested in the use of molecular information for solving phylogenetic, population genetic, or ecological questions. We work on taxa that are of particular interest for reasons of a taxonomic (for systematic revisions, barcoding, delimitation, etc.), evolutionary (for speciation and hybridization studies), population genetic (for conservation or management) or ecological (e.g. interactions among organisms) nature.

SEEKING FOR COLLABORATION WITHIN

barcoding, integrative taxonomy, molecular ecology, phylogenetics, population&conservation genetics

RELEVANT PROJECTS

[NCN/OPUS](#)


Professor

**Bożena
Kamińska-Kaczmarek**

LABORATORY OF MOLECULAR NEUROBIOLOGY

NENCKI INSTITUTE OF EXPERIMENTAL BIOLOGY,
PAS


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EXPERTISE

We focus on identifying transcriptional and epigenetic mechanisms controlling functions of immune and tumor cells. Employing single-cell transcriptomics, chromatin immunoprecipitation (ATAC-seq, ChIPseq), next-generation sequencing (NGS), and bioinformatics, we attempt to understand transcriptional changes in the tumor microenvironment that promote brain tumor progression. We collaborate with clinicians and use advanced glioma models to study potential anti-glioma therapeutic strategies.

SEEKING FOR COLLABORATION WITHIN

molecular neurobiology, tumor microenvironment, gliomas, single-cell transcriptomics, immunotherapy

RELEVANT PROJECTS

[NEUROINFLAMMATION](#)
[iNANOGUN](#)
[NEURONICHE](#)
[MicroSynDep](#)


Professor

Leszek Kaczmarek

LABORATORY OF NEUROBIOLOGY

NENCKI INSTITUTE OF EXPERIMENTAL BIOLOGY,
PAS


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EXPERTISE

Our research is focused on extracellularly operating matrix metalloproteinase, MMP-9, which is produced and released at the excitatory synapses in response to enhanced neuronal activity and plays a paramount role in the synaptic plasticity underlying learning and memory as well as such neuropsychiatric disorders as the development of epilepsy, alcohol addiction, schizophrenia, autism spectrum and bipolar disorder.

SEEKING FOR COLLABORATION WITHIN

synaptic plasticity, MMP-9, learning, memory, schizophrenia, autism, epilepsy

RELEVANT PROJECTS

[ECMED](#)
[EXTRABRAIN](#)
[BRAINCITY](#)



Professor

Mariusz WięckowskiLABORATORY OF MITOCHONDRIAL BIOLOGY
AND METABOLISMNENCKI INSTITUTE OF EXPERIMENTAL BIOLOGY,
PASM.WIECKOWSKI@NENCKI.EDU.PL

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EXPERTISE

Research carried out in our Laboratory focuses on mitochondrial physiology and pathology. We investigate mitochondrial dysfunction in several metabolic disorders, including the development and progression of nonalcoholic fatty liver disease (NALFD). We also study mitochondrial involvement in other disorders, including Neurodegeneration with Brain Iron Accumulation (NBIA) and ultra-rare genetic disease related to PACS2 gene mutation that leads to developmental and epileptic encephalopathy (DEEs).

SEEKING FOR COLLABORATION WITHIN

mitochondria, metabolism, oxidative stress, NBIA, Non-Alcoholic Fatty Liver Disease (NAFLD), PACS2

RELEVANT PROJECTS[FOIE GRAS](#)[mtFOIE GRAS](#)

HUMAN FRONTIER SCIENCE PROGRAM



Professor

Urszula WojdaLABORATORY OF PRECLINICAL TESTING
OF HIGHER STANDARDNENCKI INSTITUTE OF EXPERIMENTAL BIOLOGY,
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EXPERTISE

The mission of our Laboratory is to translate discoveries from basic neuroscience into clinical trials. We conduct our own research focused on molecular mechanisms of aging-related diseases such as Alzheimer's disease (AD) and develop new diagnostics and therapy for AD. We also provide core-facility services for other scientific and R&D institutions. We offer preclinical testing of drug candidates in cellular and mouse models, in accordance with Good Laboratory Practice.

SEEKING FOR COLLABORATION WITHIN

neurodegeneration, Alzheimer's disease (AD), microRNA, metabolic dysfunctions, preclinical testing

RELEVANT PROJECTS[ArrestAD](#)

PhD, DSc

Ewelina Knapska

LABORATORY OF EMOTIONS NEUROBIOLOGY

NENCKI INSTITUTE OF EXPERIMENTAL BIOLOGY,
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EXPERTISE

Our research aims to understand the neural circuit mechanisms controlling social interaction and reward learning in health and disease. We focus on the amygdala and its functional connectivity with other brain structures, using neuroanatomical methods, opto- and chemogenetics, and recording neuronal activity. We have developed social communication, emotion discrimination, and reward learning behavioral protocols, including an automated system to track the behavior of mice in semi-naturalistic settings.

SEEKING FOR COLLABORATION WITHIN

autism/depression models, social behavior/reward processing in humans, ultrasound brain stimulation

RELEVANT PROJECTS[BRAINCITY](#)[CoSI](#)



PhD, DSc

Grzegorz Sumara

DIOSCURI CENTER FOR METABOLIC DISEASES

**NENCKI INSTITUTE OF EXPERIMENTAL BIOLOGY,
PAS**

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EXPERTISE

Our Laboratory seeks to elucidate the signaling pathways regulating basic metabolic processes in adipose tissue, intestine and liver as well as inter-organ cross-talk, perturbations of which often result in metabolic diseases. We combine cell biology, biochemical and -omics approaches with mouse genetics. By determining essential signaling networks we aim to contribute to more targeted pharmacological strategies for the treatment of metabolic diseases such as obesity or type 2 diabetes (T2D).

SEEKING FOR COLLABORATION WITHIN

metabolism, obesity, diabetes, kinase signaling, ERK3, protein kinase D (PKD), lipolysis, ubiquitin

RELEVANT PROJECTS

[SiCMetabol](#)
[Dioscuri Grant](#)
[TR 240](#)


Professor

Lukasz Bratasz

CULTURAL HERITAGE RESEARCH GROUP

**INSTITUTE OF CATALYSIS AND SURFACE
CHEMISTRY, PAS**

LUKASZ.BRATASZ@IKIFP.EDU.PL

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EXPERTISE

Preservation of cultural heritage, microclimatic monitoring, analysis of structural response of materials to changes in environmental parameters, impact of global climate change on cultural heritage, computer modelling of environmentally induced physical damage, non-invasive testing of historical objects, especially using acoustic emission, environmental control, risk assessment and energy efficiency in museums and historic buildings.

SEEKING FOR COLLABORATION WITHIN

neuroscience (visual reception), particle deposition gas-solid models and experimental techniques

RELEVANT PROJECTS

[IPERION HS](#)
[CollectionCare](#)
[CRAQUELURE](#)
[PVCare](#)


Professor

Tomasz Cichorek

LABORATORY FOR LOW TEMPERATURE PHYSICS

**INSTITUTE OF LOW TEMPERATURE AND
STRUCTURE RESEARCH, PAS**

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EXPERTISE

Our area of research centers around experimental studies of condensed matter at low temperatures, emphasizing strongly correlated electron systems and Weyl physics. Particular interest is directed toward the two-channel Kondo phenomenon, multiband effects in unconventional superconductors, and magnetostriction and Nernst effect in topological semimetals.

SEEKING FOR COLLABORATION WITHIN

very low temperatures, high pressure, strong magnetic fields

RELEVANT PROJECTS

[NCN/OPUS](#)
[NCN/OPUS](#)

Max Planck Society: Partner Group for Non-magnetic Kondo Effect



Professor

Rafał WigluszBBRA - BIOMATERIALS FOR BIO-RELATED APPLICATIONS,
DIVISION OF BIOMEDICAL PHYSICOCHEMISTRYINSTITUTE OF LOW TEMPERATURE AND
STRUCTURE RESEARCH, PASR.WIGLUSZ@INTIBS.PL

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**EXPERTISE**

Our laboratory is focused on the preparation of nanosized biomaterials, followed by the creation of periodically ordered nanostructures based on single nanoparticles. An important factor is the design and fabrication of nanocomponents with new functionalities and characteristics for improving existing materials: photonic and conductive materials, polymers and composites. The aim is to develop innovative products and applications in electronics and biomedicine based on nanoscale technology.

SEEKING FOR COLLABORATION WITHIN

biomaterials, tissue regeneration, cells proliferation, biopolymers, hydrogels, block copolymers

RELEVANT PROJECTS[NCN funded project](#)[NCN funded project](#)[POIR](#)[POWR](#)

Professor

Ksenia Pazdro

MARINE CHEMISTRY & BIOCHEMISTRY DEPARTMENT

INSTITUTE OF OCEANOLOGY,
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**EXPERTISE**

The Marine Biogeochemistry Laboratory is focused on C, N, P, O cycling in the marine environment.

SEEKING FOR COLLABORATION WITHIN

marine CO₂ system, ocean acidification, biological pump, land-ocean continuum

RELEVANT PROJECTS[BONUS INTEGRAL](#)[ICOS](#)[RAW](#)[PROSPECTOR](#)

Professor

Mirosław Darecki

MARINE PHYSICS DEPARTMENT

INSTITUTE OF OCEANOLOGY,
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**EXPERTISE**

Our main research areas are marine optics, bio-optics, remote sensing, and acoustics. We have expertise in conducting optical measurements and analyzing optical and remote sensing data in various marine environments, in developing optical methods for investigating biological and physical processes in the sea and remote sensing algorithms for retrieval of water constituents, and in devising hydroacoustic techniques for classifying benthic habitats, seabed morphometry, and biological organisms.

SEEKING FOR COLLABORATION WITHIN

development of hydroacoustic classification techniques to monitor marine ecosystems and environment

RELEVANT PROJECTS[ALKEKONGE](#)[BALTIC-GAS](#)[COMMON SENSE](#)[SatBaltyk](#)



Professor
Dorota Gryko
LABORATORY OF SUSTAINABLE CATALYSIS

INSTITUTE OF ORGANIC CHEMISTRY, PAS

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EXPERTISE

Our laboratory is focused on sustainable chemistry. In particular, we develop catalytic methods that mimic the efficiency that is characteristic of enzymes by combining the robust nature of simple nature-derived catalysts with light as the source of energy. We are interested in finding strategies for efficient organic synthesis in accordance with the principles of green chemistry. We also work on vitamin B12, focusing on its catalytic properties and using it as a drug delivery vehicle.

SEEKING FOR COLLABORATION WITHIN

bioorthogonal chemistry, DFT calculations, artificial intelligence, drug delivery, vitamin B12

RELEVANT PROJECTS

[PhotoReact](#)
[OligoMed](#)
[NCN/OPUS18](#)
[NCN/OPUS+LAP](#)
[NCN/MAESTRO12](#)



Professor
Agnieszka Szumna
MOLECULAR RECOGNITION GROUP

INSTITUTE OF ORGANIC CHEMISTRY, PAS

AGNIESZKA.SZUMNA@ICHO.EDU.PL
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EXPERTISE

Our laboratory is focused on the design and synthesis of supramolecular systems, capsules, cavitands, and macrocycles. In particular, we are interested in their host-guest binding abilities, chiral recognition, and photophysical properties. We investigate interactions of macrocyclic compounds with peptides and proteins. We also carry out mechanochemical synthesis and encapsulation.

SEEKING FOR COLLABORATION WITHIN

imaging, PET, drug delivery, protein interactions

RELEVANT PROJECTS

[NCN/OPUS21](#)
NCN/OPUS25 2023/49/B/ST5/02466



Professor
Daniel Gryko
LABORATORY OF FUNCTIONAL DYES

INSTITUTE OF ORGANIC CHEMISTRY, PAS

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EXPERTISE

The research interests of the Gryko group are mainly centered around advanced functional dyes and catalysis. We are mainly interested in the following areas:

- next-generation fluorescent probes for stimulated emission depletion microscopy
- quadrupolar, two-photon absorbing dyes
- chemistry of diketopyrrolopyrroles and pyrrolo[3,2-b]pyrroles
- solvatochromism of fluorescence and symmetry breaking in the excited state
- curved aromatic architectures

SEEKING FOR COLLABORATION WITHIN

two-photon absorption, symmetry breaking in the excited state, photophysics of functional dyes

RELEVANT PROJECTS

[ARCHIMEDES ERC](#)
[CHAIR](#)
[Micro4Nano](#)
[NCN/OPUS](#)



Professor

Janusz LewińskiCOORDINATION METAL COMPLEXES
AND FUNCTIONAL MATERIALSINSTITUTE OF PHYSICAL CHEMISTRY,
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**EXPERTISE**

Our research program addresses a wide range of fundamental problems in inorganic and coordination chemistry, catalysis, materials chemistry, and nanoscience. Transferring curiosity-driven molecular-level fundamental studies to practical aspects is a unifying theme for much of this research. We aim to develop bottom-up approaches to functional materials, such as zinc oxide quantum dots, metal halide perovskites and metal-organic frameworks, relying on wet methods and mechanosynthesis.

SEEKING FOR COLLABORATION WITHIN

Coordination chemistry, nanoscience & nanotechnology, perovskites & photovoltaics, mechanochemistry

RELEVANT PROJECTS[NaMeS](#)[PD2PI](#)[NOBLESSE](#)

Professor

Włodzimierz Kofman

MARS EXPLORATION LABORATORY

SPACE RESEARCH CENTRE,
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**EXPERTISE**

The main axis of our research is the volcanic, tectonic, and hydrothermal characterization and evolution of Mars. We are currently especially focused on the potential sources of trace gas emissions released from the crust into the atmosphere, comparative planetary geology (including the study of terrestrial analogues of the studied regions on Mars in the field and with orbital data), and developing innovative concepts for geological exploration of planetary bodies.

SEEKING FOR COLLABORATION WITHIN

planetary geology, Mars, planetoid

RELEVANT PROJECTS[FlyRadar](#)

PhD, DSc

Sabina Górska

LABORATORY OF MICROBIOME IMMUNOBIOLOGY

HIRSZFELD INSTITUTE OF IMMUNOLOGY
AND EXPERIMENTAL THERAPY, PASSABINA.GORSKA@HIRSZFELD.PL

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**EXPERTISE**

Our laboratory studies the interaction between mammalian hosts and microbiota, seeking to uncover their impact on health and disease. In particular, we are interested in analyzing receptors and signaling pathways involved in the recognition and regulation of the immune system response by microflora and their effector molecules. We harness in-vitro experiments, animal models, immunochemistry, structural analysis to devise new therapies for allergies, IBD, and neurodegenerative diseases.

SEEKING FOR COLLABORATION WITHIN

probiotics, allergy, mucosal immunology, pulmonary immunology, NMR, bacterial antigens, neuroimmunology

RELEVANT PROJECTS[NCN/SONATABIS7](#)[NCN/SONATA3](#)



Professor

Agnieszka Chacińska

LABORATORY OF MITOCHONDRIAL BIOGENESIS

IMOL POLISH ACADEMY OF SCIENCES

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**EXPERTISE**

The Chacinska Group explores novel and exciting links between protein transport mechanisms and mitochondrial protein homeostasis. It postulates the presence of unique mechanisms involved in protein biogenesis that involve crosstalk between cytosol and mitochondrial compartments. The goal is to better understand the complex and dynamic processes involved in the formation of functional organelles, as well as the maintenance of cellular protein homeostasis and its failures, which result in pathology.

SEEKING FOR COLLABORATION WITHIN

molecular cell biology, biochemistry, mitochondria, protein biogenesis, homeostasis, stress response

RELEVANT PROJECTS

EMBO Postdoctoral Fellowship
NCN/POLONEZ



PhD

Anna Marusiak

LABORATORY OF MOLECULAR ONCOSIGNALLING

IMOL POLISH ACADEMY OF SCIENCES

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**EXPERTISE**

The Laboratory of Molecular OncoSignalling is interested in studying how aberrant signaling in cancer cells contributes to cancer development, metastasis, and therapy resistance, and how we can use that knowledge to design novel anticancer treatments. In particular, we focus on investigating oncogenic signaling activated by MLK4 in breast cancer and its role in metastasis and tumor microenvironment.

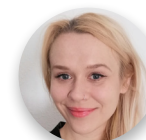
We also assess the efficiency of novel MLK4 small molecule inhibitors and PROTAC compounds.

SEEKING FOR COLLABORATION WITHIN

cancer biology, signal transduction, breast cancer, inhibitors, PROTACs, cancer therapies

RELEVANT PROJECTS

NCN/FUGA



PhD

Karolina Szczepanowska

LABORATORY OF METABOLIC QUALITY CONTROL

IMOL POLISH ACADEMY OF SCIENCES

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**EXPERTISE**

Our lab is fascinated by the mechanisms underlying the regulation of cellular metabolism. Our research focuses on the quality control of mitochondrial respiratory complexes, a set of elaborative molecular machines critical for energy production. The major aim is to understand how the respiratory complexes are surveilled, repaired and turned over upon exposure to stress. Our findings will help design new therapeutic strategies against diseases associated with metabolic constrain.

SEEKING FOR COLLABORATION WITHIN

cancer, rare diseases, mitochondria, protein turnover, protein quality control, metabolism

RELEVANT PROJECTS

EMBO Postdoctoral Fellowship
NCN/SONATINA6



PhD, DSc

Grzegorz Kreiner

DEPARTMENT OF BRAIN BIOCHEMISTRY

MAJ INSTITUTE OF PHARMACOLOGY, PAS

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EXPERTISE

Our laboratory is focused on unraveling the intracellular pathways related to neurodegeneration and the etiology of depression. We work on transgenic models, including spatiotemporal knock-outs and models generated by CRISPR/Cas9 gene editing. Our studies focus on drugs used in the treatment of depression and neurodegenerative diseases.

We exploit various laboratory methods for behavioral phenotyping, RNA/protein expression assessment, and immunohistochemistry.

SEEKING FOR COLLABORATION WITHIN

antidepressants, Parkinson's disease, Huntington's disease, transgenic models, Cre/loxP, CRISPR/Cas9

RELEVANT PROJECTS

NCN/OPUS13

NCN/OPUS7

NCN/SonataBIS11 NCN/SONATA15



Research Infrastructures



Research infrastructures

Research infrastructures are facilities that provide resources and services for the research communities to conduct research and foster innovation in their fields. These include: major equipment or sets of instruments, knowledge-related facilities such as collections, archives or scientific data infrastructures, computing systems, communication networks.

AREAS OF INTERVENTION

- consolidating and developing the landscape of European research infrastructures,
- opening, integrating and interconnecting research infrastructures,
- reinforcing European research infrastructure policy and international cooperation,
- consolidating and developing the innovation potential of European research infrastructures and activities for innovation and training.

Source: [*Research Infrastructures*](#)



PhD
Bogumił Szady
MODELLING SPATIAL KNOWLEDGE

INSTITUTE OF HISTORY, PAS

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EXPERTISE

The Department develops domain formal ontologies modelling knowledge about the settlement network and administrative units, its features and relations. These elements are an important part of research on historic space. We develop ontologies of manifestations, which is a strategy of modelling phenomena changing over time. The domain ontologies we build refer to upper-level ontologies, such as CIDOC-CRM, BFO (Basic Formal Ontology), etc., to build infrastructure for digital research.

SEEKING FOR COLLABORATION WITHIN

geography, history, philosophy, knowledge acquisition, information science

RELEVANT PROJECTS

[ONTOHGIS](#)



PhD
Wiesława Duży
MODELLING SPATIAL KNOWLEDGE

INSTITUTE OF HISTORY, PAS

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EXPERTISE

Our Department develops domain formal ontologies modelling knowledge about the settlement network and administrative units, its features and relations. These elements are an important part of research on historic space. We develop ontologies of manifestations, which is a strategy of modelling phenomena changing over time. The domain ontologies we build refer to upper-level ontologies, such as CIDOC-CRM, BFO (Basic Formal Ontology), etc., to build infrastructure for digital research.

SEEKING FOR COLLABORATION WITHIN

geography, history, philosophy, knowledge acquisition, information science

RELEVANT PROJECTS

[URBANONTO](#)



PhD
Adam Zapala
DIGITAL INFRASTRUCTURE FOR HUMANITIES

INSTITUTE OF HISTORY, PAS

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EXPERTISE

The expertise of the interdepartmental DARIAH. Lab team at the Institute of History lies in preparing digital tools for the humanities & arts. Our work focuses on providing reliable reference databases for people & places in the past, preparing scholarly digital editions.

SEEKING FOR COLLABORATION WITHIN

editors/holders of historical materials, authority files creators, creators of digital repositories

RELEVANT PROJECTS

[DARIAH](#)



PhD
Maciej Maryl
DIGITAL HUMANITIES CENTRE

**INSTITUTE OF LITERARY RESEARCH,
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EXPERTISE

The Digital Humanities Centre is invested in digital methods in the humanities scholarship. It collaborates with CLARIN and DARIAH RIs, and serves as the national node of OPERAS RI, leading the OPERAS Innovation Lab. The Open Humanities Hub coordinates the Polish national node of OPERAS, the NPLP creates an infrastructure for digital scholarly editions and monographs, and the Bibliography Department shapes the bibliographical data landscape in Europe. The “Polish Studies Newsletter” serves the needs of the international Polish Studies community, combining the features of an online portal, database, magazine and medium bringing it all together.

SEEKING FOR COLLABORATION WITHIN

innovation & data in open scholarly communication, digital scholarly editing, UX/stakeholder research, IT solutions

RELEVANT PROJECTS

[TRIPLE](#)
[OPERAS-PLUS](#)
[OPERAS-P](#)
[CRAFT-OA](#)



PhD
Kinga Krauze
RESEARCH TEAM: SOCIO-ECOHYDROLOGY AND ECOSYSTEM SERVICES

**EUROPEAN REGIONAL CENTRE FOR
ECOHYDROLOGY, PAS**

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EXPERTISE

Our laboratory is focused on social, economic, and ecological drivers of natural capital and water management issues, from perspective of both resource quality and availability and people's conflicting needs (nexus) and attitudes. In particular, we are interested in long-term processes at the nature-human interface. We work on ecosystem services assessment, implementation of Nature-Based Solutions in rural and urban areas, and biodiversity and risk assessment.

SEEKING FOR COLLABORATION WITHIN

NBS, coupled human and nature systems (CHANS), water management, modelling

RELEVANT PROJECTS

[eLTER PPP](#)
[BioAgora](#)
[Eupolis](#)
[ATENAS](#)



PhD, DSc
Maciej Figiel
DEPARTMENT OF MOLECULAR NEUROBIOLOGY

**INSTITUTE OF BIOORGANIC CHEMISTRY,
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EXPERTISE

Our team studies the pathogenesis and therapy of neurodegeneration in model diseases such as polyglutamine Huntington's disease, juvenile HD, and SCA3/MJD. We define the earliest pre-symptomatic developmental pathogenesis using early brain models such as organoids, single-cell RNAseq, and proteomics. We investigate shRNA and AAV-based therapies (silencing or gene delivery) in our Knock-in SCA3 mouse and humanized HD mouse models model using BBB permeable AAV or AAV brain injections.

SEEKING FOR COLLABORATION WITHIN

brain, neurodegeneration, Huntington, SCA3, AAV, therapy, stem, organoids, scRNAseq, animal models

RELEVANT PROJECTS

[SCACYP](#)
[TreatPolyQ](#)
[National Ataxia Foundation funded project](#)



Professor
Lukasz Bratasz
CULTURAL HERITAGE RESEARCH GROUP

INSTITUTE OF CATALYSIS AND SURFACE
CHEMISTRY, PAS

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EXPERTISE

Preservation of cultural heritage, microclimatic monitoring, analysis of structural response of materials to changes in environmental parameters, impact of global climate change on cultural heritage, computer modelling of environmentally induced physical damage, non-invasive testing of historical objects, especially using acoustic emission, environmental control, risk assessment and energy efficiency in museums and historic buildings.

SEEKING FOR COLLABORATION WITHIN

neuroscience (visual reception), particle deposition gas-solid models and experimental techniques

RELEVANT PROJECTS

[IPERION HS](#)
[CollectionCare](#)
[CRAQUELURE](#)
[PVCare](#)



PhD
Agata Goździk
SCIENCE COMMUNICATION AND EDUCATION DEPARTMENT

INSTITUTE OF GEOPHYSICS,
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EXPERTISE

The team is focused on science communication and dissemination activities. We also have broad expertise in educational activities and collaboration with schools. We have a network of 2300+ teachers and educators from 60 countries. In particular, we are interested in disseminating project outcomes in popular-science form among various groups of public and youngsters. We prepare materials to be used in classrooms and the organization of teacher training.

SEEKING FOR COLLABORATION WITHIN

citizen science, science communication, education, STEM education, polar research

RELEVANT PROJECTS

[EDU-ARCTIC](#)
[EDU-ARCTIC2](#)
[INTERACT](#)
[SCIENTIX](#)
[BRITEC](#)



Professor
Stanislaw Lasocki
EPOS THEMATIC CORE SERVICE ANTHROPOGENIC HAZARDS
DEPARTMENT

INSTITUTE OF GEOPHYSICS,
PAS

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EXPERTISE

The EPOS Thematic Core Service (ANTHROPOGENIC HAZARDS (TCS AH) integrates research infrastructures (RIs) to be open for the use of a broad community interested in hazards posed by the induced seismicity associated with geo-resource exploration and exploitation. The integrated RIs are interconnected to form a functional digital laboratory that allows for free virtual experimentation. A core of the setup is the EPISODES platform (<https://tcs.ah-epos.eu>) connected with the international data nodes.

SEEKING FOR COLLABORATION WITHIN

induced seismicity, anthropogenic hazards, research infrastructures, epos, geothermal energy

RELEVANT PROJECTS

[DT-GEO](#)
[Geo INQUIRE](#)
[EPOS SP](#)
[TCS](#)



PhD, DSc
Paweł Morawiecki
CRYPTOGRAPHY TEAM

INSTITUTE OF COMPUTER SCIENCE,
PAS

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+48 785 218 061

EXPERTISE

Our laboratory is focused on cryptography and security. In particular, we are interested in applying deep learning to security and privacy.

SEEKING FOR COLLABORATION WITHIN

security, privacy, deep learning



Professor
Szymon Jaroszewicz
STATISTICAL ANALYSIS AND MODELING GROUP

INSTITUTE OF COMPUTER SCIENCE,
PAS

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EXPERTISE

Our group is focused on statistical and machine learning methods, being particularly interested in causal discovery, from experimental and observational data, especially uplift modeling, heterogeneous treatment effect estimation, multi-label classification and positive-and-unlabeled data. We have also significant expertise in analysis of high-dimensional data, especially using information theoretical methods. We are also skilled in practical applications of machine learning and statistical methods.

SEEKING FOR COLLABORATION WITHIN

causal discovery, high dimensional data, positive-and-unlabeled classification, variable selection

RELEVANT PROJECTS

[SAI](#)

Uplift modeling in marketing and biomedical research.



Professor
Jolanta Łukasiewicz
LABORATORY OF MICROBIAL IMMUNOCHEMISTRY
AND VACCINES

HIRSZFELD INSTITUTE OF IMMUNOLOGY
AND EXPERIMENTAL THERAPY, PAS

JOLANTA.LUKASIEWICZ@HIRSZFELD.PL
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EXPERTISE

Structural analysis of polysaccharides (EPS, CPS, ECA) and glycoconjugates using NMR and MS with chemical methods. The relationship between the structure of bacterial endotoxins and their biological/physical properties. Glycoconjugate structures and ligand-receptor interactions using high-resolution NMR (HR-MAS NMR, STD-NMR), MS (LC-MS, ESI-MS/MSn, MALDI-TOF MS), with SPR & FACS. Development of neoglycoconjugates as antibacterial and antiendotoxin vaccines – synthesis, properties, immune and protective activity.

SEEKING FOR COLLABORATION WITHIN

NMR, mass spectrometry, surface plasmon resonance, flow cytometry, BSL

RELEVANT PROJECTS

[KLEBSICURE](#)

NCBR funded project





Professor

Marzena Maćkowiak

LABORATORY OF PHARMACOLOGY AND BRAIN
BIOSTRUCTURE, DEPARTMENT OF PHARMACOLOGY

MAJ INSTITUTE OF PHARMACOLOGY, PAS

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EXPERTISE

The laboratory is focused on neurodevelopmental and pharmacological models of schizophrenia: prenatal MAM administration, blockade of NMDA receptors in juvenile and adult rodents. The laboratory uses maternal separation and social isolation paradigms to model early-life adversity. We conduct behavioral tests: fear conditioning, acoustic startle response, novel object recognition, social interaction, light/dark box, and molecular techniques (proteomics, transcriptomics), immunohistochemistry.

SEEKING FOR COLLABORATION WITHIN

early life stress, adolescent stress



Cluster 1



Cluster 1

Health

The aims of this cluster include improving and protecting the health and well-being of citizens of all ages by generating new knowledge, developing innovative solutions and integrating where relevant a gender perspective to prevent, diagnose, monitor, treat and cure diseases. Further aims include developing health technologies, mitigating health risks, protecting populations and promoting good health and well-being in general and at work.

Finally, this cluster also aims to make public health systems more cost-effective, equitable and sustainable, prevent and tackle poverty-related diseases and support and enable patients' participation and self-management.

AREAS OF INTERVENTION

- health throughout the life course
- environmental and social health determinants
- non-communicable and rare diseases
- infectious diseases including poverty-related and neglected diseases
- tools, technologies and digital solutions for health and care including personalised medicine
- health care systems

Source: [Cluster 1](#)



PhD, DSc

Adam Czarnecki

RESEARCH TEAM ON RURAL WELL-BEING

INSTITUTE OF RURAL AND AGRICULTURAL
DEVELOPMENT, PAS

ACZARNECKI@IRWIRPAN.WAW.PL

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EXPERTISE

The research team is focused on the well-being and quality of life of rural and farming communities. We are interested in learning more about the socioeconomic factors and the resulting challenges for having a good life as well as the rural people's coping strategies to mitigate the negative effects of the ongoing processes such as the climate change, population shifts. We conduct work on farmers' and other rural residents' well-being shaped by variety of forces at different territorial scales.

SEEKING FOR COLLABORATION WITHIN

Well-being, quality of life, good life, coping strategies, rural/local communities, farmers

RELEVANT PROJECTS

[FARMWELL](#)



PhD, DSc

Maciej Figiel

DEPARTMENT OF MOLECULAR NEUROBIOLOGY

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PAS

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EXPERTISE

Our team studies the pathogenesis and therapy of neurodegeneration in model diseases such as polyglutamine Huntington's disease, juvenile HD, and SCA3/MJD. We define the earliest pre-symptomatic developmental pathogenesis using early brain models such as organoids, single-cell RNAseq, and proteomics. We investigate shRNA and AAV-based therapies (silencing or gene delivery) in our Knock-in SCA3 mouse and humanized HD mouse models using BBB permeable AAV or AAV brain injections.

SEEKING FOR COLLABORATION WITHIN

brain, polyglutamine, Huntington, SCA3, AAV, therapy, stem, organoids, scRNAseq, mouse models

RELEVANT PROJECTS

[SCACYP](#)

[TreatPolyQ](#)

[National Ataxia Foundation funded project](#)



PhD, DSc

Jacek Łukasz Kolanowski

CENTRE FOR CHEMICAL BIOLOGY ERIC

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EXPERTISE

In our research group we design, develop, and use fluorescent probes and assays for multiparametric imaging in live cells. In our core facility we offer (1) high throughput screening for identification of drug candidates (fluor. & biolum., biochemical and cell-based assays including high content imaging), (2) ultraresolution (<5 nm, MINFLUX) & superresolution fluorescent microscopy (STED, STED-FLIM) in live cells, (3) synthesis of chemical probes, natural compound analogues and hit optimization.

SEEKING FOR COLLABORATION WITHIN

chemical biology, fluorescent probes, multiplexing, imaging, HTS, protein labelling, core facility

RELEVANT EU PROJECTS

[EU-OPENSOURCE-DRIVE](#)

[ISIDORE](#)

[AgroSERV](#)



Professor
Marek Figlerowicz
DEPARTMENT OF MOLECULAR AND SYSTEMS BIOLOGY

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EXPERTISE

Our group focuses on cell engineering, particularly for the purposes of regeneration and interceptive medicine. We study factors shaping cell identities and states in the context of epigenetic rejuvenation, direct cell reprogramming, and intercellular communication via short- and long-distance RNA transport. We combine cutting-edge single-cell spatial multiomics, micro-patterned cell cultures, organoid models, and machine learning to model cell trajectories and control cell fate and functions.

SEEKING FOR COLLABORATION WITHIN

cardiology, AI, epigenetics, transdifferentiation, RNA, extracellular vesicles, CRISPR, APOBEC

RELEVANT PROJECTS

[ECBiG-MOSAIC](#)
[NEB](#)
[LifeTime](#)
[LifeTime](#)



PhD
Artur Zelent
DEPARTMENT OF MOLECULAR BIOLOGY

INSTITUTE OF GENETICS AND ANIMAL
BIOTECHNOLOGY, PAS

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EXPERTISE

Our current research focuses on the use of an innovative iterative functional and genomics approach to design new therapeutic strategies for patients with Myelodysplastic Syndromes (MDS), Acute Myeloid Leukemia (AML), and Chronic Lymphocytic Leukaemia (CLL). We are also interested in studying the relationship between the epigenetic landscape and the pathogenesis of diseases.

SEEKING FOR COLLABORATION WITHIN

biochemistry, genetics, molecular biology, medicine and health sciences, chemistry, immunology

RELEVANT PROJECTS

NCN/OPUS17
NCN/OPUS21



Professor
Bożena Kamińska-Kaczmarek
LABORATORY OF MOLECULAR NEUROBIOLOGY

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EXPERTISE

We focus on identifying transcriptional and epigenetic mechanisms controlling functions of immune and tumor cells. Employing single-cell transcriptomics, chromatin immunoprecipitation (ATAC-seq, ChIPseq), next-generation sequencing (NGS), and bioinformatics, we attempt to understand transcriptional changes in the tumor microenvironment that promote brain tumor progression. We collaborate with clinicians and use advanced glioma models to study potential anti-glioma therapeutic strategies.

SEEKING FOR COLLABORATION WITHIN

molecular neurobiology, tumor microenvironment, gliomas, single-cell transcriptomics, immunotherapy

RELEVANT PROJECTS

[NEUROINFLAMMATION](#)
[iNANOGUN](#)
[NEURONICHE](#)
[MicroSynDep](#)



Professor
Mariusz Więckowski
LABORATORY OF MITOCHONDRIAL BIOLOGY
AND METABOLISM

NENCKI INSTITUTE OF EXPERIMENTAL BIOLOGY,
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EXPERTISE

Research carried out in our Laboratory is focused on mitochondrial physiology and pathology. We investigate mitochondrial dysfunction in several metabolic disorders including the development and progression of nonalcoholic fatty liver disease (NALFD). We also study mitochondrial involvement in other disorders, including Neurodegeneration with Brain Iron Accumulation (NBIA) and ultra-rare genetic disease related to PACS2 gene mutation that leads to developmental and epileptic encephalopathy (DEEs).

SEEKING FOR COLLABORATION WITHIN

mitochondria, metabolism, oxidative stress,
Non-Alcoholic Fatty Liver Disease (NAFLD), NBIA, PACS2

RELEVANT PROJECTS

HUMAN FRONTIER SCIENCE PROGRAM
[FOIE GRAS](#)
[mtFOIE GRAS](#)



PhD, DSc
Ewelina Knapska
LABORATORY OF EMOTIONS NEUROBIOLOGY

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EXPERTISE

Our research aims to understand the neural circuit mechanisms controlling social interaction and reward learning in health and disease. We focus on the amygdala and its functional connectivity with other brain structures, using neuroanatomical methods, opto- and chemogenetics, and recording neuronal activity. We have developed social communication, emotion discrimination, and reward learning behavioral protocols, including an automated system to track the behavior of mice in semi-naturalistic settings.

SEEKING FOR COLLABORATION WITHIN

autism/depression models, social behavior/reward processing in humans, ultrasound brain stimulation

RELEVANT PROJECTS

[BRAINCITY](#)
[CoSI](#)



PhD, DSc
Grzegorz Sumara
DIOSCURI CENTER FOR METABOLIC DISEASES

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PAS

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EXPERTISE

Our Laboratory seeks to elucidate the signaling pathways regulating basic metabolic processes in adipose tissue, intestine and liver as well as inter-organ cross-talk, perturbations of which often result in metabolic diseases. We combine cell biology, biochemical and -omics approaches with mouse genetics. By determining essential signaling networks we aim to contribute to more targeted pharmacological strategies for the treatment of metabolic diseases such as obesity or type 2 diabetes (T2D).

SEEKING FOR COLLABORATION WITHIN

metabolism, obesity, diabetes, kinase signaling, ERK3, protein kinase D (PKD), lipolysis, ubiquitin

RELEVANT PROJECTS

[TR 240](#)
[Dioscuri Grant](#)
[SiCMetabol](#)



Professor

Rafał Wigłusz

BBRA – BIOMATERIALS FOR BIO-RELATED APPLICATIONS,
DIVISION OF BIOMEDICAL PHYSICOCHEMISTRY

INSTITUTE OF LOW TEMPERATURE
AND STRUCTURE RESEARCH, PAS



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EXPERTISE

Our laboratory is focused on the preparation of nanosized biomaterials, followed by the creation of periodically ordered nanostructures based on single nanoparticles. An important factor is the design and fabrication of nanocomponents with new functionalities and characteristics for improving existing materials: photonic and conductive materials, polymers and composites. The aim is to develop innovative products and applications in electronics and biomedicine based on nanoscale technology.

SEEKING FOR COLLABORATION WITHIN

biomaterials, tissue regeneration, cells proliferation, biopolymers, hydrogels, block copolymers

RELEVANT PROJECTS

[NCN funded project](#)

[NCN funded project](#)

[POIR](#)

POWR



PhD, DSc

Agnieszka Michota-Kamińska

PLASMONIC NANOSTRUCTURES FOR BIOSPECTROSCOPIC
ANALYSES

INSTITUTE OF PHYSICAL CHEMISTRY,
PAS



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EXPERTISE

Our group is focused on Raman vibrational and surface-enhanced Raman spectroscopy, surface plasmon resonance for biomolecule detection & identification (e.g. protein, DNA, viruses, antigens, antibodies, bacteria, fungi and cancer cells) for analytical & medical applications. We also develop innovative SERS platforms based on femtosecond laser-modified silicon, polymer layers created by electrospinning or polymer membranes with nanopores.

SEEKING FOR COLLABORATION WITHIN

Raman, SERS, bacteria, cancer cells, lung cancer, chemometric analysis, nanoplasmonic structures

RELEVANT PROJECTS

[NOBLESSE](#)

NCBR funded project/Bio-SERS



PhD

Bartłomiej Wacław

DIOSCURI CENTRE FOR PHYSICS AND CHEMISTRY
OF BACTERIA

INSTITUTE OF PHYSICAL CHEMISTRY,
PAS



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EXPERTISE

Our group studies bacterial growth & evolution in order to better understand bacterial infections, in particular urinary infections. We study how bacteria attach and grow on the surfaces of medical catheters and implants, how they evolve resistance to antibiotics, and how they invade and grow inside human cells. We use a range of experimental methods as well as machine learning and computer simulations. We also develop new optical- and microfluidics-based methods to measure bacterial growth.

SEEKING FOR COLLABORATION WITHIN

urinary medicine, infectious medicine, bioengineering, drug screening, antimicrobial treatment

RELEVANT PROJECTS

[DIOSCURI](#)

[POLS](#)



Professor
**Joanna
Niedziółka-Jönsson**
SURFACE NANOENGINEERING GROUP

INSTITUTE OF PHYSICAL CHEMISTRY,
PAS

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EXPERTISE

Our group specializes in the synthesis and functionalization of plasmonic nanoparticles and their spatial organization. We use these particles as elements in plasmonic sensors and to study molecular interactions. The group also works on the development of peptides as recognition elements in biosensors. The peptides are panned from libraries using the phage display technique.

SEEKING FOR COLLABORATION WITHIN

surface characterisation, biosensing, metallic particle synthesis

RELEVANT PROJECTS

[CREATE](#)

[Noblesse](#)



Professor
Maciej Wojtkowski
INTERNATIONAL CENTRE FOR TRANSLATIONAL
EYE RESEARCH

INSTITUTE OF PHYSICAL CHEMISTRY,
PAS

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EXPERTISE

We are an RDI center created to advance cutting-edge hi-tech to support the diagnosis and treatment of eye diseases, enabling faster implementation of new therapies. We specialize in the field of minimally invasive surgery, structural and ophthalmic biology, computational genomics, bioinformatics, biochemical control of the protein machinery, genetic repair in inherited diseases, and tissue engineering. We develop optical imaging and robotic technologies to assist in eye surgery and drug delivery.

SEEKING FOR COLLABORATION WITHIN

medical physics, biochemistry, instrumentation/
biomedical engineering, ophthalmology

RELEVANT PROJECTS

[CREATE](#)

[Youtube link](#)

[IMCUSTOMEYE](#)

[FNP funded project](#)



Professor
Robert Hołyst
SOFT CONDENSED MATTER GROUP

INSTITUTE OF PHYSICAL CHEMISTRY,
PAS

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EXPERTISE

We use single-molecule fluorescence methods to study diffusion in the nanoscale & aim to determine the mechanisms involved in the cellular uptake of drugs, protein oligomerization, and the quantitative description of drug-target interactions. We strive to quantitatively understand biochemical reactions with DNA in a flask & in living cells' nuclei by developing novel techniques for bioanalysis. We also study nonequilibrium thermodynamics/statistical physics.

SEEKING FOR COLLABORATION WITHIN

soft matter, transport in cells, biochemistry, statistical physics & thermodynamics

RELEVANT PROJECTS

[NaMeS](#)

[WIB HERO](#)

[NCN/OPUS22](#)



Professor
Andrzej Gamian
LABORATORY OF MEDICAL MICROBIOLOGY

**HIRSZFELD INSTITUTE OF IMMUNOLOGY
AND EXPERIMENTAL THERAPY, PAS**

ANDRZEJ.GAMIAN@HIRSZFELD.PL
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EXPERTISE

Research on the pathogenicity mechanisms of certain diseases of bacterial etiology and the role of phages, surface glycoconjugates, and protein bacterial antigens in accompanying immune processes. In particular, we perform structural and serological studies of surface bacterial, viral, and phage antigens and the role of these antigens in disease development and immune responses. We work on vaccines, adjuvants, actinomycetal diagnostics, and glycolipid and polysaccharide biomarkers.

SEEKING FOR COLLABORATION WITHIN

conjugate vaccines, advanced glycation end-products

RELEVANT PROJECTS

[NCBR funded project](#)
[NCBR/TANGO](#)
[POIG EIT+](#)



Professor
Jolanta Lukasiewicz
LABORATORY OF MICROBIAL IMMUNOCHEMISTRY AND
VACCINES

**HIRSZFELD INSTITUTE OF IMMUNOLOGY
AND EXPERIMENTAL THERAPY, PAS**

JOLANTA.LUKASIEWICZ@HIRSZFELD.PL
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EXPERTISE

Structural analysis of bacterial glycolipids (LPS, CPS, EPS, ECA) – structure and biological activity relationships (immunogenicity, toxicity, immune system activation, vaccine development). Major achievements: design of LPS-based vaccines (pertussis, nosocomial infections); identification of the covalent linkage between ECA and LPS, sepsis-relevant interactions between human complement and LPS, and structural modifications determining the diversity of K.pneumoniae O-antigens key for prophylaxis and therapy of MDR.

SEEKING FOR COLLABORATION WITHIN

epidemiology, vaccine, monoclonal antibody, genetics, sepsis, MDR, drug resistance, lipopolysaccharide

RELEVANT PROJECTS

[NCN/OPUS16](#)
[KLEBSICURE](#)
[KLEBSICURE](#)
[NCN/OPUS16](#)
[NCN/OPUS20](#)



Professor
Andrzej Górski
BACTERIOPHAGE LABORATORY

**HIRSZFELD INSTITUTE OF IMMUNOLOGY
AND EXPERIMENTAL THERAPY, PAS**

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EXPERTISE

Studies on the therapeutic potential of bacteriophages (phages), especially in human clinical scenarios. We isolate new phages to enrich our phage bank and identify their biological properties to select an optimal set of phages devoid of toxic and resistance conveying genes. Those phages are tested in animal models. In 2005 we established a phage therapy unit for patients with antibiotics-resistant infections. Now, a clinical trial of the therapy in patients with chronic bacterial sinusitis is being run.

SEEKING FOR COLLABORATION WITHIN

bacteriophage, phage therapy, phage immunobiology

RELEVANT PROJECTS

[RHINOPHAGE](#)
[NCN funded project](#)
[POIG](#)
[POIG](#)



PhD, DSc

Sabina Górską

LABORATORY OF MICROBIOME IMMUNOBIOLOGY

**HIRSZFELD INSTITUTE OF IMMUNOLOGY
AND EXPERIMENTAL THERAPY, PAS**

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EXPERTISE

Our laboratory studies the interaction between mammalian hosts and microbiota, seeking to uncover their impact on health and disease. In particular, we are interested in analyzing receptors and signaling pathways involved in the recognition and regulation of the immune system response by microflora and their effector molecules. We harness *in vitro* experiments, animal models, immunochemistry, structural analysis to devise new therapies for allergies, IBD, and neurodegenerative diseases.

SEEKING FOR COLLABORATION WITHIN

probiotics, allergy, mucosal immunology, pulmonary immunology, NMR, bacterial antigens, neuroimmunology

RELEVANT PROJECTS

[NCN/SONATABIS7](#)

[NCN/SONATA3](#)



PhD

Joanna Wietrzyk

LABORATORY OF EXPERIMENTAL ANTICANCER THERAPY

**HIRSZFELD INSTITUTE OF IMMUNOLOGY
AND EXPERIMENTAL THERAPY, PAS**

JOANNA.WIETRZYK@HIRSZFELD.PL

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EXPERTISE

Focused on tumor metastases and angiogenesis, experimental anticancer therapy, immunotherapy, preclinical studies of potential anticancer drugs. Interested in the influence and mechanism of vitamin D and its derivatives on the tumor microenvironment; mechanisms of vitamin D interaction with anticancer drugs; new isothiocyanate derivatives and new bisphosphonates for use in anti-cancer therapy; immunotherapy using genetically modified dendritic cells; microRNA in the invasive growth of breast cancer.

SEEKING FOR COLLABORATION WITHIN

tumor metastases, angiogenesis, drugs, experimental anticancer therapy, immunotherapy, vit. D, calcitriol

RELEVANT PROJECTS

[Nano2Clinic](#)

[Osteopontin role...](#)

[Vitamin D effects](#)

[Control...](#)



Professor

Aleksandra Klimczak

LABORATORY OF BIOLOGY OF STEM AND NEOPLASTIC CELLS

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AND EXPERIMENTAL THERAPY, PAS**

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EXPERTISE

Our laboratory is focused on cellular therapies in regenerative medicine and cancer stem cells. We work on: (1) MSCs and their secretome in regenerative processes; (2) an interdisciplinary approach to the biocompatibility of cells and scaffold, e.g. MSCs secretome and biological scaffold for the treatment of chronic wounds, the osteogenic potential of MSCs seeded on the composite scaffolds as a bioimplant for the reconstruction of large bone defects; (3) cancer stem cells as a therapeutic target.

SEEKING FOR COLLABORATION WITHIN

MSC, their secretome, microvesicles, chronic wounds, cardiovascular stents, regenerative medicine, cancer

RELEVANT PROJECTS

[Transplantation...](#)

[Epi-J](#)

[atMSC...](#)

[VENUS](#)



Professor
Agnieszka Chacińska
LABORATORY OF MITOCHONDRIAL BIOGENESIS

IMOL POLISH ACADEMY OF SCIENCES

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EXPERTISE

The Chacińska Group explores novel and exciting links between protein transport mechanisms and mitochondrial protein homeostasis. It postulates the presence of unique mechanisms involved in protein biogenesis that involve crosstalk between cytosol and mitochondrial compartments. The goal is to better understand the complex and dynamic processes involved in the formation of functional organelles, as well as the maintenance of cellular protein homeostasis and its failures, which result in pathology.

SEEKING FOR COLLABORATION WITHIN

molecular cell biology, biochemistry, mitochondria, protein biogenesis, homeostasis, stress response

RELEVANT PROJECTS

EMBO Installation Grant
FNP/WELCOME
NCN/MAESTRO7
FNP/ReMedy



PhD
Abdelhalim Azzi
LABORATORY OF LIPIDS AND CHRONOBIOLOGY

IMOL POLISH ACADEMY OF SCIENCES

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EXPERTISE

Our laboratory is focused on the role of phosphoinositide 5'-phosphatases in regulation of cell signaling in response to mitogenic signals. Moreover, we are also interested in understanding how these enzymes modulate different aspects of the circadian clock. As a model we are using inositol 5'-phosphatase SHIP2, and we are also planning to study the role of other enzymes from the same family, such as INPP5K and INPP5B.

SEEKING FOR COLLABORATION WITHIN

molecular and cell biology, phosphoinositide biology, autophagy, cancer biology

RELEVANT PROJECTS

MSCA COFUND
SNSF mobility grant
NCN/SONATABIS12



PhD
Maciej Cieśła
LABORATORY OF STEM CELL RNA METABOLISM

IMOL POLISH ACADEMY OF SCIENCES

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EXPERTISE

The Cieśła lab focuses on understanding how stem cell activation is maintained at the level of RNA metabolism. It is our vision that different facets of RNA biology are intertwined to regulate cell fate trajectories during the activation of stem cells. Hence, our goal is to understand how macromolecular machineries of splicing, epitranscriptomics, and translation functionally sculpt proteomes to determine differentiation outcomes and balance health and disease.

SEEKING FOR COLLABORATION WITHIN

RNA metabolism, stem cells, splicing, development, hematopoiesis, epitranscriptomics

RELEVANT PROJECTS

NCN/OPUS22
NCN/SONATABIS12
EMBO Installation Grant



PhD

Anna Marusiak

LABORATORY OF MOLECULAR ONCOSIGNALLING

IMOL POLISH ACADEMY OF SCIENCES

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EXPERTISE

The Laboratory of Molecular OncoSignalling is interested in studying how aberrant signaling in cancer cells contributes to cancer development, metastasis, and therapy resistance, and how we can use that knowledge to design novel anticancer treatments. In particular, we focus on investigating oncogenic signaling activated by MLK4 in breast cancer and its role in metastasis and tumor microenvironment. We also assess the efficiency of novel MLK4 small molecule inhibitors and PROTAC compounds.

SEEKING FOR COLLABORATION WITHIN

cancer biology, signal transduction, breast cancer, inhibitors, PROTACs, cancer therapies

RELEVANT PROJECTS

FNP/HOMING

NCN/SONATABIS11

NCN/SONATA14

NCN/PRELUDEUM20



PhD

Piotr Gerlach

LABORATORY OF STRUCTURAL VIROLOGY

IMOL POLISH ACADEMY OF SCIENCES

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EXPERTISE

Our lab studies how RNA viruses (bunyaviruses in particular) reorganize and exploit intracellular complexes. We combine structural biology (cryo-EM and X-ray) with mini-replicons mimicking viral transcription and replication in human cell cultures. We use this to identify host factors interacting with bunyaviral proteins and to monitor changes in the host proteome. The ultimate goal is to characterize assemblies of the viral polymerase and the host translation machinery formed during infection.

SEEKING FOR COLLABORATION WITHIN

molecular cell biology, translation, ribosomes, RNA viruses, antiviral drugs, cryo-EM

RELEVANT PROJECTS

EMBO Installation Grant

EMBO Long-Term Fellowship

NCN/SONATABIS12



PhD

Karolina Szczepanowska

LABORATORY OF METABOLIC QUALITY CONTROL

IMOL POLISH ACADEMY OF SCIENCES

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EXPERTISE

Our lab is fascinated by the mechanisms underlying the regulation of cellular metabolism. Our research focuses on the quality control of mitochondrial respiratory complexes, a set of elaborate molecular machines critical for energy production. The major aim is to understand how the respiratory complexes are surveilled, repaired and turned over upon exposure to stress. Our findings will help design new therapeutic strategies against diseases associated with metabolic constrain.

SEEKING FOR COLLABORATION WITHIN

cancer, rare diseases, mitochondria, protein turnover, protein quality control, metabolism

RELEVANT PROJECTS

EMBO Installation Grant

NCN/SONATABIS11



Professor
Michał Witt

DEPARTMENT OF MOLECULAR AND CLINICAL GENETICS

INSTITUTE OF HUMAN GENETICS,
PAS

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EXPERTISE

Our research focuses on the genetic basis of rare pulmonary diseases and the molecular biology that underlies genetically determined defects of motile cilia. We also investigate molecular and genetic aspects of hematologic diseases, and issues related to monitoring the treatment response. We carry out research on genetic and epigenetic diversity, aiming to elucidate the population specificity of disease-associated genome changes and to find forensic markers differentiating human populations.

SEEKING FOR COLLABORATION WITHIN

cystic fibrosis, population diversity, ciliary dyskinesia, rare diseases, respiratory diseases

RELEVANT PROJECTS

[BEAT-PCD](#)

[COST CHIPme](#)

[BESTCILIA](#)

[STRATEGMED](#)



Professor
Maciej Giefing

DEPARTMENT OF CANCER GENETICS

INSTITUTE OF HUMAN GENETICS,
PAS

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EXPERTISE

We are interested in the (epi)genetics of hematological neoplasms and head and neck cancers. We evolved from a group dedicated to the identification of tumor related genes (tumor suppressor genes and oncogenes). Currently, we are focusing on deciphering the role of deregulated transcription factors in these neoplasms, including multiple functional assays. Moreover, we have solid expertise in epigenetic research, including DNA methylation analysis and studying miRNAs and cfDNA.

SEEKING FOR COLLABORATION WITHIN

hematological neoplasms, Hodgkin lymphoma, head and neck cancers, laryngeal cancer

RELEVANT PROJECTS

[NEXT_LEVEL](#)

[NCN/OPUS21](#)

[NCN/OPUS20](#)

[NCBR/POIR funded project](#)



PhD
Natalia Rozwadowska

MOLECULAR PATHOLOGY DEPARTMENT

INSTITUTE OF HUMAN GENETICS,
PAS

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EXPERTISE

Our research group uses pluripotent stem cells (iPSC) for developmental process monitoring and disease modeling. We focus on the cardiovascular system, investigating human gametogenic cell development, and using a chamber-specific human engineered heart tissue model together with heart-on-chip technology, offering the most advanced platform to study heart organogenesis and pathology. We have established the LAD ligation mouse model with broad portfolio of advanced molecular imaging of heart function for the CVD.

SEEKING FOR COLLABORATION WITHIN

CVD, male infertility, heart failure, RNA binding, tissue engineering, organ-on-chip

RELEVANT PROJECTS

[NCN/OPUS13](#)

[NCN/SONATA14](#)

[NCN/OPUS24](#)



PhD
Marzena Skrzypczak-Zielińska
DEPARTMENT OF NUCLEIC ACID FUNCTION

INSTITUTE OF HUMAN GENETICS, PAS

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EXPERTISE

We focus on two research areas: 1) inflammatory bowel disease genetics, microbiome analysis and pharmacogenomics, molecular diagnostics of gastrointestinal tract cancers, multifactorial etiology of cardiovascular diseases; part of our analysis includes transgenesis of pigs for xenotransplantation as large animal models; 2) regulation of gene expression in early stages of human germ cell development, posttranscriptional regulatory mechanisms of the initial stages of human germ cell development.

SEEKING FOR COLLABORATION WITHIN

inflammatory bowel disease, microbiome, molecular diagnostics, large animal models, microRNAs

RELEVANT PROJECTS

[SALAAM](#)
[MEDPIG](#)
[ONKOKAN](#)
[NCN/OPUS18](#)
[ABM/2023/2](#)



Professor
Maciej Kurpisz
DEPARTMENT OF REPRODUCTIVE BIOLOGY
AND STEM CELLS

INSTITUTE OF HUMAN GENETICS, PAS

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EXPERTISE

Our department focuses on 2 modules: 1) the molecular background of male infertility and biological properties of stem cells (their application in organ regeneration perspective); here we apply systemic biology to the transcriptomic identification of gene expression in dysfunctional male gonads and DNA arrays of infertile individuals to identify novel genes; 2) studies of pro-generative properties of stem cells investigated in clinical trials, for instance in the regeneration of post-infarction heart.

SEEKING FOR COLLABORATION WITHIN

male infertility, post-infarction heart, regenerative medicine, muscular dystrophy, stem cells

RELEVANT PROJECTS

SSA (European Commission) Grant No. LSSM-CT-511992
[StrategMed](#)
[NCN/OPUS13](#)
[NCN/OPUS19](#)



PhD
Agnieszka Dzikiewicz-Krawczyk
RESEARCH GROUP OF NON-CODING PARTS OF THE GENOME

INSTITUTE OF HUMAN GENETICS, PAS

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POZNAN.PL](mailto:AGNIESZKA.DZIKIEWICZ-KRAWCZYK@IGCZ.POZNAN.PL)



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EXPERTISE

Our laboratory is focused on functional characterization of various non-coding sequences in the genome (miRNA, lncRNA, eRNA, enhancers, promoters and transcription factor binding sites) in basic cellular processes and in cancer pathogenesis. We use genome-wide CRISPR/Cas9 screens to identify genes and regulatory sequences crucial for cancer cells, especially for B-cell lymphomas. Our work aims to identify vulnerabilities in cancer cells which could be used for the development of targeted therapies.

SEEKING FOR COLLABORATION WITHIN

B-cell lymphoma, non-coding RNA, enhancers, CRISPR/Cas9, oncogenes

RELEVANT PROJECTS

[FNP/FIRST TEAM](#)
[NCN/SONATA](#)



Professor

Marzena Maćkowiak

LABORATORY OF PHARMACOLOGY AND BRAIN
BIOSTRUCTURE, DEPARTMENT OF PHARMACOLOGY

MAJ INSTITUTE OF PHARMACOLOGY,
PAS

MACKOW@IF-PAN.KRAKOW.PL

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EXPERTISE

The laboratory is focused on neurodevelopmental and pharmacological models of schizophrenia: prenatal MAM administration, blockade of NMDA receptors in juvenile and adult rodents. The laboratory uses maternal separation and social isolation paradigms to model early-life adversity. We conduct behavioral tests: fear conditioning, acoustic startle response, novel object recognition, social interaction, light/dark box, and molecular techniques (proteomics, transcriptomics), immunohistochemistry.

SEEKING FOR COLLABORATION WITHIN

epigenetics, environment vs. brain development, depression, anxiety, neuroplasticity, schizophrenia



Professor

Agata Faron-Górecka

DEPARTMENT OF PHARMACOLOGY, LABORATORY
OF BIOCHEMICAL PHARMACOLOGY

MAJ INSTITUTE OF PHARMACOLOGY,
PAS

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EXPERTISE

Our laboratory employs diverse methodologies, including cell cultures, transgenic animals, radioisotope techniques PLA to map protein interactions, in situ hybridization, RT-PCR, miRNA measurements using TaqMan Array Cards and multiplexing protein- and gene-level measurements on the Luminex platform. Furthermore, our laboratory also performs behavioral tests: the forced swim test, tail suspension test, marble-burying test, and attentional set-shift task in mice.

SEEKING FOR COLLABORATION WITHIN

treatment-resistant depression, stress resilience, biomarkers, miRNAs, GPCRs dimerization



Professor

Krystyna Gołombiowska

RESEARCH TEAM NO 2, DEPARTMENT OF PHARMACOLOGY

MAJ INSTITUTE OF PHARMACOLOGY, PAS

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EXPERTISE

Our laboratory is focused on the therapeutic effects of psychedelics in animal models of depression; in particular, we study mechanisms of psilocybin in naïve and stressed animals. We work on neurotransmitter release (monoamines, acetylcholine, glutamate, and GABA) in the brain using microdialysis in freely moving rats. Our laboratory also conducts behavioral tests: the forced swim test, open field and novel object recognition, light/dark box.

SEEKING FOR COLLABORATION WITHIN

depression, anxiety, neuroplasticity, neurotransmitter release, DNA damage



Professor

Agnieszka Basta-Kaim

DEPARTMENT OF EXPERIMENTAL NEUROENDOCRINOLOGY/
LABORATORY OF IMMUNOENDOCRINOLOGY

**MAJ INSTITUTE OF PHARMACOLOGY,
PAS**

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EXPERTISE

Our laboratory is focused on understanding of the mechanisms underlying complex brain functions under physiological and pathological conditions. In particular, we are focused on the neurodevelopmental and pharmacological models of depression, schizophrenia and Alzheimer's disease. We employ complex of animal models: neurodevelopmental of schizophrenia (MIA), depressive-like behaviors (prenatal stress), a genetic depression model (Wistar Kyoto rats), a model of Alzheimer's disease (APP NL-F/ NL-F mice), and a rat diabetes model (streptozotocin). Furthermore, our laboratory also performs behavioral tests and complex of molecular analysis

SEEKING FOR COLLABORATION WITHIN

depression, schizophrenia, Alzheimer Disease, brain ischemia, neuroinflammation, neurodegeneration

RELEVANT PROJECTS

EpiAD



Professor

Władysław Lason

DEPARTMENT OF EXPERIMENTAL NEUROENDOCRINOLOGY/
LABORATORY OF IMMUNOENDOCRINOLOGY

**MAJ INSTITUTE OF PHARMACOLOGY,
PAS**

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EXPERTISE

Our team is focused on developing and characterizing various types of theranostic nanoparticles as potential universal nanovehicles for transporting drugs in central system disorders.

SEEKING FOR COLLABORATION WITHIN

neuroprotection, theranostic nanoparticles, ischemic stroke, neuroregeneration, neuroinflammation

RELEVANT PROJECTS

MSCA/PASIFIC

NCN/GRIEG1

NCN/OPUS20



Professor

Małgorzata Filip

DEPARTMENT OF DRUG ADDICTION PHARMACOLOGY

**MAJ INSTITUTE OF PHARMACOLOGY,
PAS**

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EXPERTISE

Our laboratory is focused on understanding of the mechanisms underlying complex brain functions under physiological and pathological conditions. In particular, we are interested in preclinical research methods of substance use and eating disorders, depression, anxiety, as well as social and cognitive decline. We employ complex behavioral analysis methods, in parallel with analyses focused on brain organization, protein interaction, genetic and epigenetic networks and synaptic connections.

SEEKING FOR COLLABORATION WITHIN

substance use disorder, feeding behavior, emotional state, learning, memory, cell and network level

RELEVANT PROJECTS

NCN/OPUS22

NCN funded project

NCN/SONATA16

DAAD-NAWA funded project



Professor

Urszula Wojda

LABORATORY OF PRECLINICAL TESTING
OF HIGHER STANDARD

**NENCKI INSTITUTE OF EXPERIMENTAL BIOLOGY,
PAS**



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EXPERTISE

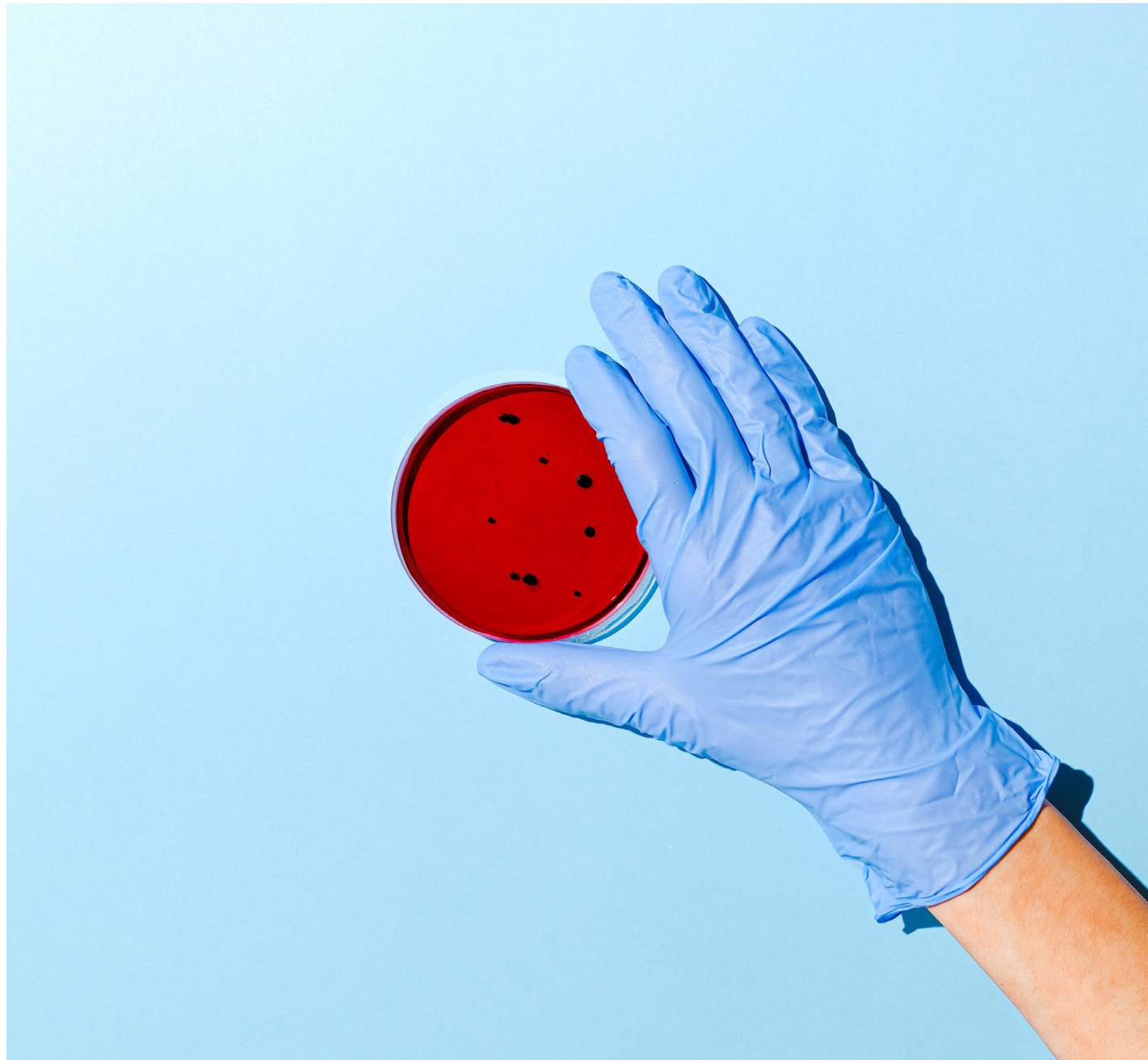
The mission of our Laboratory is to translate discoveries from basic neuroscience into clinical trials. We conduct our own research focused on molecular mechanisms of aging-related diseases such as Alzheimer's disease (AD) and develop new diagnostics and therapy for AD. We also provide core-facility services for other scientific and R&D institutions. We offer preclinical testing of drug candidates in cellular and mouse models, in accordance with Good Laboratory Practice.

SEEKING FOR COLLABORATION WITHIN

neurodegeneration, Alzheimer's disease (AD), microRNA, metabolic dysfunctions, preclinical testing

RELEVANT PROJECTS

[ArrestAD](#)



Cluster 2



Cluster 2

Culture, Creativity and Inclusive Society

This cluster aims to strengthen European democratic values, including rule of law and fundamental rights, safeguarding our cultural heritage, and promoting socio-economic transformations that contribute to inclusion and growth.

AREAS OF INTERVENTION

- democracy
- cultural heritage
- social and economic transformations

Source: [Cluster 2](#)



PhD, DSc

Martyna Kobus

CENTER FOR THE STUDY OF INEQUALITY

INSTITUTE OF ECONOMICS, PAS

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EXPERTISE

We are a team of theoreticians and empirical researchers interested in a range of issues related to inequalities. These include, in particular, the measurement of inequality, welfare, and mobility, assessing the impact of policies, historical trends in inequality, and the macroeconomic and labor market consequences of inequality. We also conduct research on health inequalities and socioeconomic inequalities in health. We are currently expanding our capacity through the use of Polish administrative data.

SEEKING FOR COLLABORATION WITHIN

inequality, welfare, poverty, health inequality, inequalities and labor market

RELEVANT PROJECTS

NCN/BETHOVEN



PhD, DSc

Tomasz Łyziak

EXPECTATIONS' FORMATION AND MACROECONOMIC POLICY

INSTITUTE OF ECONOMICS, PAS

TLYZIAK@INEPAN.WAW.PL

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EXPERTISE

Our research is focused on expectation-formation and macroeconomic policy. We analyze the formation of inflation expectations and how they are influenced by monetary and fiscal policies. We likewise analyze fiscal sustainability, proposing novel measures of it for EU economies. We also study inflation and its determinants. Currently we study the relationship between inflation expectations and other expectations of US consumers and the impact of the Ukraine war on consumer inflation expectations in Poland.

SEEKING FOR COLLABORATION WITHIN

inflation, inflation expectations, survey data, new keynesian phillips curve, fiscal sustainability

RELEVANT PROJECTS

[Global determinants...](#)

[Measuring fiscal...](#)

[Fiscal policy...](#)



PhD

Bogumił Szady

MODELLING SPATIAL KNOWLEDGE

INSTITUTE OF HISTORY, PAS

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EXPERTISE

Our Department develops domain formal ontologies modelling knowledge about the settlement network and administrative units, its features and relations. These elements are an important part of research on historic space. We develop ontologies of manifestations, which is a strategy of modelling phenomena changing over time. The domain ontologies we build refer to upper-level ontologies, such as CIDOC-CRM, BFO (Basic Formal Ontology), etc., to build infrastructure for digital research.

SEEKING FOR COLLABORATION WITHIN

geography, history, philosophy, knowledge acquisition, information science

RELEVANT PROJECTS

[ONTOHGIS](#)



PhD

Wiesława Duży

MODELLING SPATIAL KNOWLEDGE

INSTITUTE OF HISTORY, PAS

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EXPERTISE

Our Department develops domain formal ontologies modelling knowledge about the settlement network and administrative units, its features and relations. These elements are an important part of research on historic space. We develop ontologies of manifestations, which is a strategy of modelling phenomena changing over time. The domain ontologies we build refer to upper-level ontologies, such as CIDOC-CRM, BFO (Basic Formal Ontology), etc., to build infrastructure for digital research.

SEEKING FOR COLLABORATION WITHIN

geography, history, philosophy, knowledge acquisition, information science

RELEVANT PROJECTS

[URBANONTO](#)



PhD

Tomasz Panecki

RESEARCH IN SPATIAL HISTORY,
HISTORICAL GEOGRAPHY & CARTOGRAPHY

INSTITUTE OF HISTORY, PAS

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EXPERTISE

Our Department specialises in broadly-construed spatial history, historical geography & cartography. Our expertise stems mainly from the series “Historical Atlas of Poland: Detailed Maps of the 16th Century”, which also provides a complete network of localities & administrative boundaries. Experience gained from working on this series will be useful in preparing similar datasets from subsequent timeframes. The data should be treated as a starting point for further research, e.g. on social, economic, political & cultural history.

SEEKING FOR COLLABORATION WITHIN

geography, history, history of cartography, historical cartography

RELEVANT PROJECTS

[AHP](#)



PhD, DSc

Paweł Mościcki

DEPARTMENT OF THE ANTHOLOGY OF THE PRESENT

INSTITUTE OF LITERARY RESEARCH, PAS

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PAWEL.MOSCICKI@IBL.WAW.PL

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EXPERTISE

The activity of our Department is focused on interdisciplinary research projects regarding a wide range of topics relevant to different aspects of contemporary culture. Collectively and individually the members of the Department have been involved in projects concerning the questions of memory, affect, comedy, architecture, and mode. The group consists mainly of scholars with a literary and cultural studies background, with additional expertise in philosophy and art history.

SEEKING FOR COLLABORATION WITHIN

cultural, literary, environmental studies, philosophy

RELEVANT PROJECTS

[ATA](#)

[APM](#)

[ALS](#);

NCN funded project



PhD, DSc
**Magdalena
Rembowska-Płuciennik**
DEPARTMENT OF HISTORICAL POETICS

INSTITUTE OF LITERARY RESEARCH, PAS

MAGDALENA.REMBOWSKA-PLUCIENNIK@IBL.WAW.PL



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EXPERTISE

The Department of Historical Poetics deals with diverse literary genres and paraliterary forms in various historical and literary periods (mainly in the 19th and 20th centuries). Our research interests include general issues in the humanities and philology; literary and cultural translation studies; relations between literature and visual arts literature; digital literature; the concept of literariness and non-literariness; digital humanities and the development of modern research infrastructure.

SEEKING FOR COLLABORATION WITHIN

print and digital literacy, transmedial intersections, communication: artistic and cross-cultural

RELEVANT PROJECTS

Ministry funded project

[NAWA funded project](#)

[Poetyki](#)



Professor
Monika Rudaś-Grodzka
WOMENS ARCHIVE WORKING GROUP

INSTITUTE OF LITERARY RESEARCH, PAS

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EXPERTISE

The Women's Archive team is focused on the study of women's artistic creativity, autobiographic writing and biographies – mostly, but not exclusively in the area of Polish culture. It initiates and manages scholarly and popularization-oriented projects (e.g. exhibitions), by using and spreading methods of feminist critique, ecocriticism, queer studies, and other modern approaches. The team also specialises in modern research on women's archival legacies.

SEEKING FOR COLLABORATION WITHIN

women's autobiographic writing, women's biographies, women's archives, women's creativity, online database

RELEVANT PROJECTS

[Women Writers Route](#)

[Women's Archive – writing women](#)

Gender Encyclopedia: gender in culture

[The sun of George Sand and her planets](#)



PhD
Michał Kotnarowski
EUROPEAN SOCIAL SURVEY – POLAND

INSTITUTE OF PHILOSOPHY AND SOCIOLOGY,
PAS

KOTNAROWSKI@IFISPAN.EDU.PL



+48 669 108 600

EXPERTISE

SEEKING FOR COLLABORATION WITHIN

voting behavior, political behavior, political representation, survey methodology, social structure

RELEVANT PROJECTS

[CSES](#)

[PIREDEU](#)

[POLPAN](#)

[ISSP](#)



Professor
Barbara Engelking
POLISH CENTER FOR HOLOCAUST RESEARCH

INSTITUTE OF PHILOSOPHY AND SOCIOLOGY,
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EXPERTISE

The Polish Center for Holocaust Research it is the first, and so far the only research institution in Poland dealing exclusively with Holocaust studies. It conducts research using a wealth of resources and collections unique to Polish archives and introduces interdisciplinary reflection to analyze the various aspects and dimensions of the Holocaust experience. We are also involved in educational and publishing activities. The Center is a member of the European Holocaust Research Infrastructure.

SEEKING FOR COLLABORATION WITHIN

Holocaust Studies, Jewish Studies,
Social History of WWII, History and Memory

RELEVANT PROJECTS

[Warsaw Ghetto](#)

[Ministry funded project](#)



Professor
Kazimierz M. Słomczyński
COMPARATIVE ANALYSES OF SOCIAL INEQUALITY TEAM
(CASIN)

INSTITUTE OF PHILOSOPHY AND SOCIOLOGY,
PAS

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EXPERTISE

Our research team analyses determinants, correlates, and consequences of social inequality. It conducts survey research (panel studies, in particular), develops survey methodology (specializing in integrating data from international survey projects), and investigates political behavior (focusing on protests). The team runs Cross-National Studies: Interdisciplinary Research and Training (CONSIRT) – a program established by the Polish Academy of Sciences and the Ohio State University (USA).

SEEKING FOR COLLABORATION WITHIN

social inequality & mobility, socio-political attitudes,
survey method. harmonization of survey data

RELEVANT PROJECTS

[POLPAN](#)

[SDR](#)

[VPPS](#)



Professor
Valentina Lepri
CENTRE FOR THE HISTORY OF RENAISSANCE KNOWLEDGE

INSTITUTE OF PHILOSOPHY AND SOCIOLOGY,
PAS

VALENTINA.LEPRI@IFISPAN.EDU.PL

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EXPERTISE

The Centre for the History of Renaissance Knowledge is a dynamic research unit of the Institute of Philosophy and Sociology. Focusing on early modernity, we are particularly interested in knowledge practices and bottom-up knowledge, putting the emphasis of study on minor figures rather than renowned thinkers. Our work is mainly accomplished in European archives and libraries and we are predominantly intellectual historians, always fully open to multi- and interdisciplinary approaches.

SEEKING FOR COLLABORATION WITHIN

history of knowledge, history of ideas, intellectual
migration, manuscripts, scholar network

RELEVANT PROJECTS

[KnowStudents](#)

[MSCA IF](#)

[Francesco De Dombrowski Fellowship](#)



Professor
Dariusz Stola
DEPARTMENT OF RECENT POLITICAL HISTORY

INSTITUTE OF POLITICAL STUDIES, PAS

STOLA@ISPPAN.WAW.PL
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EXPERTISE

I have wide experience in project management on both the EU and the national levels. In terms of topics, I would be happy to contribute research on EU foreign & security policy and diplomacy, on German foreign policy after the end of the Cold War, as well as research on Polish politics after 1989 (both its external dimension including Poland's EU and NATO policies as well as the internal developments, e.g. the democratic backsliding).

SEEKING FOR COLLABORATION WITHIN

20th century history of Europe: international migrations, communist regimes, the Holocaust

RELEVANT PROJECTS

NCN funded project

[ERC/RESOCEA](#)

KBN (Polish Committee for Scientific Research) funded project

Ministry funded project



Professor
Agnieszka Cianciara
DEPARTMENT OF INTERNATIONAL ORGANIZATIONS
AND GLOBAL SECURITY STUDIES

INSTITUTE OF POLITICAL STUDIES, PAS

AGCIAN@POLITIC.EDU.PL
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EXPERTISE

Our team engages in scientific research on major global trends, challenges and policy-making, especially in the context of international organizations. Shifts in global economic connections and the crisis (decline) of liberal international order call for comparative research on transformation of multilateralism, global and regional international organizations, and great-power politics.

SEEKING FOR COLLABORATION WITHIN

political science, international relations, security studies, European Union studies

RELEVANT PROJECTS

[NCN funded project](#)

[NCN funded project](#)

[NCN funded project](#)



PhD
Marta Kołczyńska
DEPARTMENT OF RESEARCH ON SOCIAL
AND INSTITUTIONAL TRANSFORMATIONS

INSTITUTE OF POLITICAL STUDIES, PAS

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EXPERTISE

My work focuses on political attitudes and political behavior in a comparative perspective, as well as cross-national survey methodology. Specifically, I study changes in political trust across countries and over time, their causes and consequences, including political polarization. Another part of my work analyzes participants at public demonstrations based on protest surveys. I am also interested in survey data quality, comparability, and harmonization.

SEEKING FOR COLLABORATION WITHIN

political attitudes, political behavior, comparative political attitudes, cross-national surveys

RELEVANT PROJECTS

[Polarization and Political Trust](#)



Professor
Piotr Oseka
DEPARTMENT OF RECENT POLITICAL HISTORY

INSTITUTE OF POLITICAL STUDIES, PAS

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EXPERTISE

My research field covers collective biographies of dissident and ruling elites in communist Poland. I have written several books and articles devoted to the topic, employing both quantitative and qualitative approaches. My current project focuses on the prosopography and oral history of the communist secret police.

SEEKING FOR COLLABORATION WITHIN

communism, prosopography, secret police, perpetrator studies

RELEVANT PROJECTS

[NCN/Enforcers](#)



Professor
Monika Sus
DEPARTMENT OF INTERNATIONAL ORGANIZATIONS
AND GLOBAL SECURITY STUDIES

INSTITUTE OF POLITICAL STUDIES, PAS

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EXPERTISE

I have wide experience in project management on both the EU and the national levels. In terms of topics, I would be happy to contribute research on EU foreign & security policy and diplomacy, on German foreign policy after the end of the Cold War, as well as research on Polish politics after 1989 (both its external dimension including Poland's EU and NATO-policies as well as the internal developments, e.g. the democratic backsliding).

SEEKING FOR COLLABORATION WITHIN

EU foreign and security policy, diplomacy, area studies (CEE), europeanisation, democratization

RELEVANT PROJECTS

[ENGAGE](#)
[NCN funded project](#)



Professor
Ireneusz Sadowski
DEPARTMENT OF RESEARCH ON SOCIAL AND INSTITUTIONAL
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INSTITUTE OF POLITICAL STUDIES, PAS

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EXPERTISE

My colleagues and I are focused on research involving social and political transformations in Poland.

In particular, we have lately studied and published on: attitudes toward science and other institutions, political trust and democracy, selection processes in political elites, the impact of social networks on voting, generational changes, and institutional changes, especially those in education. Our research is mostly focused on Central and Eastern Europe (Poland, Ukraine, and Germany).

SEEKING FOR COLLABORATION WITHIN

social transformations, democracy and governance

RELEVANT PROJECTS

[#3Gen](#)



Professor
Anna Zielińska
DEPARTMENT OF LINGUISTICS

INSTITUTE OF SLAVIC STUDIES, PAS

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EXPERTISE

I conduct research in the fields of dialectology, sociolinguistics, multilingualism, language contacts, language borderlands. I am the PI of the Polish-German research project “Language across generations: contact induced change in morpho-syntax in German-Polish bilingual speech” (financed by the NCN and DFG). This project aims to create an integrated description of Polish-German bilingualism in Poland and Germany, covering both grammar and sociolinguistic issues.

SEEKING FOR COLLABORATION WITHIN

language contacts, multilingualism, studies of multilingual communities, linguistic biographies

RELEVANT PROJECTS

[LANGGENER](#)



PhD, DSc
Nicole Dołowy-Rybińska
DEPARTMENT OF LINGUISTICS

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EXPERTISE

Our research team works on minority and minoritized languages of Europe and their communities in a broad political, cultural, and linguistic context. We pursue anthropological and sociolinguistic research that touches upon such issues as language policies, language practices, shift and attitudes, language rights, and language maintenance and revitalization.

SEEKING FOR COLLABORATION WITHIN

sociolinguistics, multilingualism, minorities and borderlands, language revitalization

RELEVANT PROJECTS

[NCN/SonataBis](#)
[NCN/OPUS](#)
[SORBIAN](#)



PhD
Karolina Ćwiek-Rogalska
DEPARTMENT OF LITERARY AND CULTURAL STUDIES

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EXPERTISE

Our team is interested in the emergence of re-settlement cultures in post-displacement regions of Slavic Central Europe. The hypothesis we follow is that they are formed in contact with the materiality left behind by expellees. We work on Polish, Czech, and Slovak case studies, conducting fieldwork in selected regions as well as archival search queries in national and local archives.

SEEKING FOR COLLABORATION WITHIN

studies of material culture

RELEVANT PROJECTS

[SPECTRAL RECYCLING](#)



PhD, DSc

Grażyna Szwat-Gyłybowa

DEPARTMENT OF LITERARY AND CULTURAL STUDIES

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EXPERTISE

The research interests of our team focus on the issues of cultural change in the Balkan area, national and minority issues. In particular, we are interested in cultural transfers, the migration of ideas, topoi and myths, and non-obvious relations between centers of symbolic power. We direct attention to all layers of South Slavic cultures (from folklore, to popular culture, to artistic practices addressed to a narrow audience).

SEEKING FOR COLLABORATION WITHIN

cultural history of the Balkans, history of ideas, popular culture, culture transfer, memory studies

RELEVANT PROJECTS

[NCN/OPUS](#)



PhD

Anna Zawadzka

DEPARTMENT OF NATIONALITY STUDIES

INSTITUTE OF SLAVIC STUDIES,
PAS

ANNA.ZAWADZKA@ISPAN.EDU.PL

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EXPERTISE

My research fields are as follows: current historical politics in post-communist countries; the history of anticommunism in comparative perspectives; studies of antisemitism; synergy of antisemitism and anticommunism; the history, socio-political functions, and consequences of the “Jewish Bolshevism” stereotype; studies of the “Jewish Bolshevism” stereotype in an East-West comparative perspective; the social history of cold war era in Eastern and Central Europe; studies of prejudice.

SEEKING FOR COLLABORATION WITHIN

comparative studies of historical politics in Central and Eastern Europe

RELEVANT PROJECTS

[NCN funded project](#)

[The Center for Cultural and Literary Studies of Communis](#)



PhD

Jarosław Wilczyński

DEPARTMENT OF VERTEBRATE ZOOLOGY

INSTITUTE OF SYSTEMATICS AND EVOLUTION
OF ANIMALS, PAS

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EXPERTISE

Our research is focused on the origin and diversity of the archeofaunal assemblages of the Late Pleistocene and Holocene sites known from Central Europe. In particular, we are interested in the remains of large and medium-sized mammals, both wild and domestic. Our research team is expanding previous interpretations of the archaeological record, in particular the range of socioeconomic behavioral patterns through time, on the basis of comprehensive archaeozoological analysis.

SEEKING FOR COLLABORATION WITHIN

archaeology, palaeodiet and migration, palaeogenetic, radiocarbon dating, stable isotope analysis

RELEVANT PROJECTS

[MAMBA ERC Consolidator Grant](#)



Professor

Lukasz Bratasz

CULTURAL HERITAGE RESEARCH GROUP

**INSTITUTE OF CATALYSIS AND SURFACE
CHEMISTRY, PAS**



LUKASZ.BRATASZ@IKIFP.EDU.PL

+48 502 183 475

EXPERTISE

Preservation of cultural heritage, microclimatic monitoring, analysis of structural response of materials to changes in environmental parameters, impact of global climate change on cultural heritage, computer modelling of environmentally induced physical damage, non-invasive testing of historical objects, especially using acoustic emission, environmental control, risk assessment and energy efficiency in museums and historic buildings.

SEEKING FOR COLLABORATION WITHIN

neuroscience (visual reception), particle deposition gas-solid models and experimental techniques

RELEVANT PROJECTS

[IPERION HS](#)

[CollectionCare](#)

[CRAQUELURE](#)

[PVCare](#)



Cluster 3



Cluster 3

Civil Security for Society

Cluster 3 responds to the challenges arising from persistent security threats, including cybercrime, as well as natural and man-made disasters.

In addition, it builds on lessons learnt from the COVID-19 pandemic to strengthen prevention, mitigation, preparedness and capacity building for crises (including health crises) and to improve cross-sectoral aspects of such crises.

AREAS OF INTERVENTION

- disaster-resilient societies
- protection and security
- cybersecurity

Source: [Cluster 3](#)



PhD

Jakub Ryzenko

CRISIS INFORMATION CENTRE

SPACE RESEARCH CENTRE, PAS

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EXPERTISE

The main aim of the activities of the Crisis Information Centre is to boost effectiveness in the field of rescue and crisis management by:

- effective usage of existing technical capabilities in the field of geospatial information
- developing new methods and tools in this field, particularly using satellite techniques.

SEEKING FOR COLLABORATION WITHIN

crisis management, geoinformation, rescue

RELEVANT PROJECTS

COLLARIS Network



PhD, DSc

Paweł Morawiecki

CRYPTOGRAPHY TEAM

INSTITUTE OF COMPUTER SCIENCE, PAS

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EXPERTISE

Our laboratory is focused on cryptography and security. In particular, we are interested in applying deep learning to security and privacy.

SEEKING FOR COLLABORATION WITHIN

security, privacy, deep learning

Cluster 4



Cluster 4

Digital Industry and Space

The overarching vision behind the proposed investments under Cluster 4 is that of Europe shaping competitive and trusted technologies for a European industry with global leadership in key areas, enabling production and consumption to respect the boundaries of our planet, and maximising the benefits for all parts of society in the variety of social, economic and territorial contexts in Europe.

This will build a competitive, digital, low-carbon and circular industry, ensure sustainable supply of raw materials, develop advanced materials and provide the basis for advances and innovation in global challenges to society.

AREAS OF INTERVENTION

- manufacturing technologies
- key digital technologies including quantum technologies
- emerging enabling technologies
- advanced materials
- artificial intelligence and robotics
- next generation internet
- advanced computing and Big Data
- circular industries
- low carbon and clean industries
- space including earth observation

Source: [Cluster 4](#)



PhD

Adam Zapala

DIGITAL INFRASTRUCTURE FOR HUMANITIES

INSTITUTE OF HISTORY, PAS

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EXPERTISE

The expertise of the interdepartmental DARIAH.Lab team at the Institute of History lies in preparing digital tools for the humanities & arts. Our work focuses on providing reliable reference databases for people & places in the past, preparing scholarly digital editions, automatic & manual extraction of data from texts (manuscripts, prints & machine-processable text), creating & sharing repositories of source materials. In our work we implement modern digital technologies in historical research, e.g. HTR, XML/TEI, NLP, GIS, LOD.

SEEKING FOR COLLABORATION WITHIN

editors/holders of historical materials, authority files creators, creators of digital repositories

RELEVANT PROJECTS

[DARIAH](#)



Professor

Mieczysław Kłopotek

ARTIFICIAL INTELLIGENCE FUNDAMENTAL RESEARCH
LABORATORY

INSTITUTE OF COMPUTER SCIENCE, PAS

KLOPOTEK@IIPAN.WAW.PL

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EXPERTISE

Our laboratory is focused on Artificial Intelligence, including Web, Text and Data Mining, Reasoning and Machine Learning. In particular, we are interested in spectral and related cluster analysis methods, both in the area of clustering and classification. We work on uncertainty representation, including probabilistic, Dempster-Shafer, metaset, and other approaches. We are interested in explainable artificial intelligence as well as the theoretical foundations of clustering methods.

SEEKING FOR COLLABORATION WITHIN

spectral cluster analysis, explainable artificial intelligence, metaset

RELEVANT PROJECTS

[NEKST](#)

[INSTATCENY](#)



Professor

Szymon Jaroszewicz

STATISTICAL ANALYSIS AND MODELING GROUP

INSTITUTE OF COMPUTER SCIENCE, PAS

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EXPERTISE

Our group is focused on statistical and machine learning methods, being particularly interested in causal discovery, from experimental and observational data, especially uplift modeling, heterogeneous treatment effect estimation, multi-label classification and positive-and-unlabeled data. We have also significant expertise in analysis of high-dimensional data, especially using information theoretical methods. We are also skilled in practical applications of machine learning and statistical methods.

SEEKING FOR COLLABORATION WITHIN

causal discovery, high dimensional data, positive-and-unlabeled classification, variable selection

RELEVANT PROJECTS

[SAI](#)

Uplift modeling in marketing and biomedical research.



Professor

Michał Basista

DIVISION OF ADVANCED COMPOSITE MATERIALS,
DEPARTMENT OF MECHANICS OF MATERIALS

**INSTITUTE OF FUNDAMENTAL TECHNOLOGICAL
RESEARCH, PAS**

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EXPERTISE

The team is focused on processing of advanced metal, ceramic, and polymer materials, as well as their characterization and modeling for applications in transport, energy, and biomedicine. We fabricate materials using powder metallurgy, chemical synthesis, and electrophoretic deposition. We analyze material microstructure via electron microscopy and X-ray tomography and measure mechanical properties using in-situ tests. We develop micro-CT based numerical models of deformation, fracture, thermal properties and residual stresses.

SEEKING FOR COLLABORATION WITHIN

metal-ceramic composites, intermetallics, high entropy alloys, activated carbon materials, nanowires

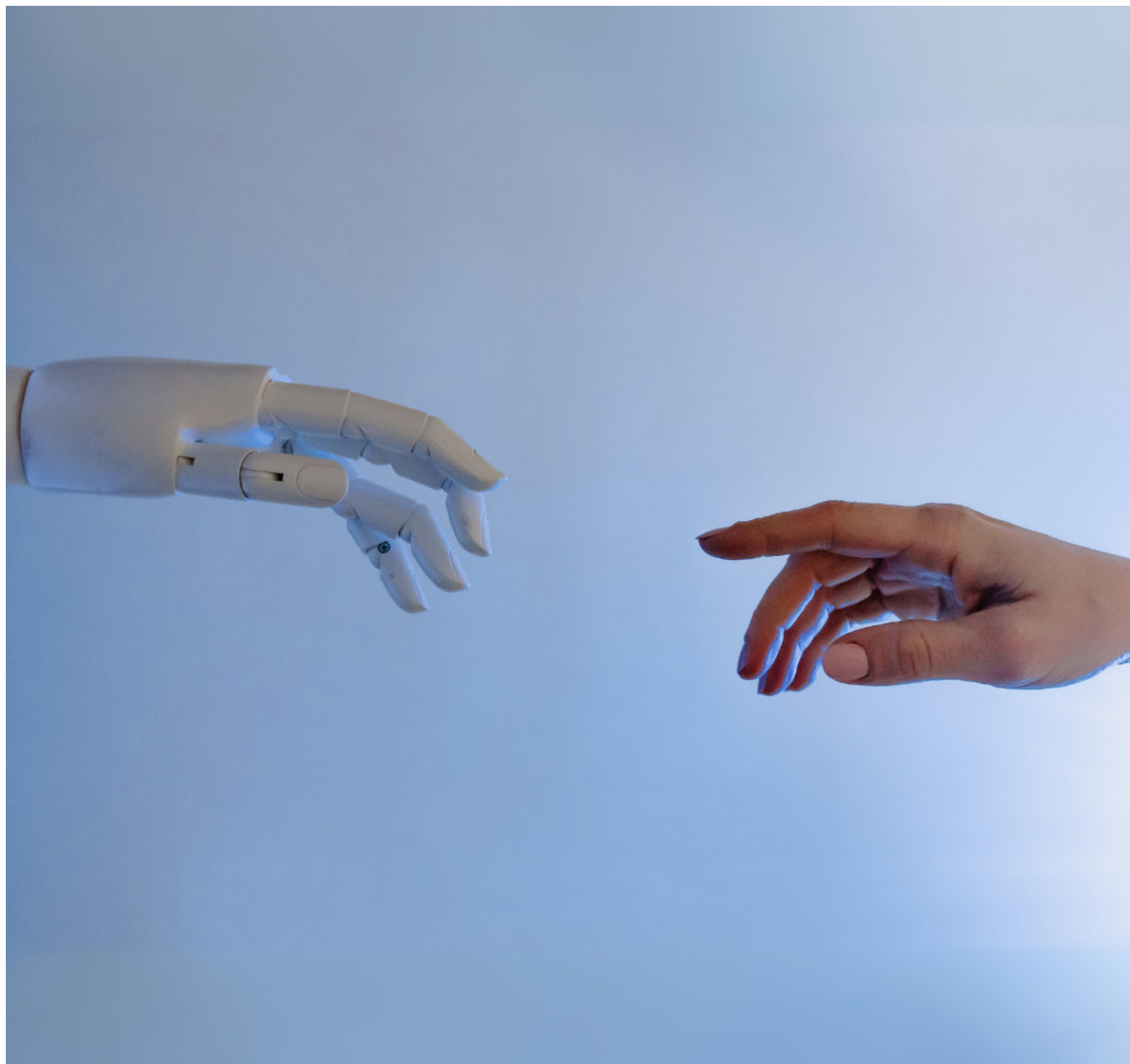
RELEVANT PROJECTS

[KMM-NoE](#)

[MATRANS](#)

[INN VIN](#)

[KomCerMet](#)



Cluster 5



Cluster 5

Climate, Energy and Mobility

This cluster aims to fight climate change by better understanding its causes, evolution, risks, impacts and opportunities, and by making the energy and transport sectors more climate and environment-friendly, more efficient and competitive, smarter, safer and more resilient.

AREAS OF INTERVENTION

- climate science and solutions
- energy supply
- energy systems and grids
- buildings and industrial facilities in energy transition
- communities and cities
- industrial competitiveness in transport
- clean, safe and accessible transport and mobility
- smart mobility
- energy storage

Source: [Cluster 5](#)



Professor

Jarosław Stolarski

BIOSTRUCTURES AND BIOMINERALIZATION WORKING GROUP

INSTITUTE OF PALEOBIOLOGY, PAS

STOLACY@TWARDA.PAN.PL

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EXPERTISE

Our laboratory is focused on investigating biomineralization processes. In particular, we are interested in: (i) structural and biogeochemical features of biominerals, (ii) physiological and environmental factors affecting their formation, and (iii) their functional and phylogenetic significance. We work on various groups of fossil and recent organisms (e.g., corals, echinoderms) using modern analytical techniques (including experimental studies).

SEEKING FOR COLLABORATION WITHIN

biomineralization, bio-inspired engineering, paleoproteomics, paleogenomics

RELEVANT PROJECTS

[NCN/OPUS](#)

[NCN/OPUS](#)

[NCN/OPUS](#)

[NCN/SONATA](#)



PhD

Agata Goździk

SCIENCE COMMUNICATION AND EDUCATION DEPARTMENT

INSTITUTE OF GEOPHYSICS, PAS

GOZDZIK@IGF.EDU.PL

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EXPERTISE

Our team is focused on science communication and dissemination activities. We also have broad expertise in educational activities and collaboration with schools. We have a network of 2300+ teachers and educators from 60 countries. In particular, we are interested in disseminating projects outcomes in popular-science form among various groups of end-users, especially the broader public and youngsters. We prepare materials to be used in classrooms and the organization of teacher training.

SEEKING FOR COLLABORATION WITHIN

citizen science, science communication, education, STEM education, polar research

RELEVANT PROJECTS

[EDU-ARCTIC](#)

[EDU-ARCTIC2](#)

[INTERACT](#)

[SCIENTIX](#)

[BRITEC](#)





Professor
Ksenia Pazdro

MARINE CHEMISTRY & BIOCHEMISTRY DEPARTMENT

INSTITUTE OF OCEANOLOGY, PAS

PAZDRO@IOPAN.PL

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EXPERTISE

The Marine Biogeochemistry Laboratory is focused on C, N, P, O cycling in the marine environment.

SEEKING FOR COLLABORATION WITHIN

marine CO₂ system, ocean acidification, biological pump, land-ocean continuum

RELEVANT PROJECTS

[BONUS INTEGRAL](#)

[ICOS](#)

[RAW](#)

BONUS PINBAL



Professor
Jacek Piskozub

PHYSICAL OCEANOGRAPHY DEPARTMENT

INSTITUTE OF OCEANOLOGY, PAS

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EXPERTISE

The Department of Physical Oceanography is focused on ocean-atmosphere interactions, particularly mass, energy, and radiation fluxes in the ocean-atmosphere boundary layer; spatial and temporal variability of circulation and properties of water masses in the Baltic Sea, Nordic Seas, and European Arctic; oceanic fluxes of mass, heat, and salt and their role in shaping the ocean climate and Arctic sea ice cover; climate feedbacks with a focus on the role of oceanic processes in intra-seasonal to decadal cryospheric and atmospheric variability and predictability; numerical experiments with ocean circulations.

SEEKING FOR COLLABORATION WITHIN

ocean-atmosphere interactions, oceanic fluxes of mass, heat and salt, ocean circulation

RELEVANT PROJECTS

[HiAOOS](#)

[RISE](#)

[Intaros](#)



Professor
Mirosław Darecki

MARINE PHYSICS DEPARTMENT

INSTITUTE OF OCEANOLOGY, PAS

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EXPERTISE

The main research areas are marine optics, bio-optics, remote sensing, and acoustics. We have expertise in conducting optical measurements and analyzing optical and remote sensing data in various marine environments, in developing optical methods for investigating biological and physical processes in the sea and remote sensing algorithms for retrieval of water constituents, and in devising hydroacoustic techniques for classifying benthic habitats, seabed morphometry, and biological organisms.

SEEKING FOR COLLABORATION WITHIN

development of hydroacoustic classification techniques to monitor marine ecosystems and environment

RELEVANT PROJECTS

[CHEMSEA](#)

[GAME](#)

[MODUM](#)

[GLAERE](#)



Professor
Marek Zajączkowski
DEPARTMENT OF PALEOCEANOGRAPHY

INSTITUTE OF OCEANOLOGY, PAS

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EXPERTISE

Our Department is focused on the past climate and oceanographic changes in the shelf and deep-water ecosystems. These studies include the multidimensional reconstruction of the postglacial ocean circulation in the Nordic Seas using sea surface temperature, water column stratification and ventilation, and temperature and salinity at the bottom. We use a broad range of different micropaleontological proxies, such as foraminifera, as well as innovative methods like ancient DNA and biomarkers.

SEEKING FOR COLLABORATION WITHIN

paleoceanography, ancient DNA, Nordic Seas, Arctic, carbon burial, productivity, Foraminifera

RELEVANT PROJECTS

BioOcean 5D
[NEEDED](#)



Professor
Dorota Gryko
LABORATORY OF SUSTAINABLE CATALYSIS

INSTITUTE OF ORGANIC CHEMISTRY, PAS

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EXPERTISE

Our laboratory is focused on sustainable chemistry. In particular, we develop catalytic methods that mimic the efficiency that is characteristic of enzymes by combining the robust nature of simple nature-derived catalysts with light as the source of energy. We are interested in finding strategies for efficient organic synthesis in accordance with the principles of green chemistry. We also work on vitamin B12, focusing on its catalytic properties and using it as a drug delivery vehicle.

SEEKING FOR COLLABORATION WITHIN

bioorthogonal chemistry, DFT calculations, artificial intelligence, drug delivery, vitamin B12

RELEVANT PROJECTS

[BioRed](#)



PhD
Marcin Lindner
LABORATORY OF FUNCTIONAL AROMATIC COMPOUNDS

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EXPERTISE

Our laboratory is focused on the synthesis of functional aromatic compounds with prospective optoelectronic applications. In particular, we are interested in new synthetic pathways towards concave ambipolar N-doped polycyclic aromatic hydrocarbons (N-PAHs) and curved nanographene fragments. These are rationally designed as efficient emitters for thermally activated delay fluorescence (TADF) OLED devices as well as hole transporting layers (HTL) in perovskite solar cells (PSC).

SEEKING FOR COLLABORATION WITHIN

organic synthesis, N-doped PAHs, curved aromatics, functional nanographenes, OLED emitters, HTLs

RELEVANT PROJECTS

[NCBR funded project – LIDER](#)
NCN/OPUS23



Professor
Agnieszka Szumna
MOLECULAR RECOGNITION GROUP

INSTITUTE OF ORGANIC CHEMISTRY, PAS

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EXPERTISE

Our laboratory is focused on the design and synthesis of supramolecular systems, capsules, cavitands, and macrocycles. In particular, we are interested in their host-guest binding abilities, chiral recognition, and photophysical properties. We investigate interactions of macrocyclic compounds with peptides and proteins. We also carry out mechanochemical synthesis and encapsulation.

SEEKING FOR COLLABORATION WITHIN

imaging, PET, drug delivery, protein interactions

RELEVANT PROJECTS

[NCN/OPUS21](#)

NCN/OPUS25 2023/49/B/ST5/02466



Professor
Janusz Lewiński
COORDINATION METAL COMPLEXES
AND FUNCTIONAL MATERIALS

INSTITUTE OF PHYSICAL CHEMISTRY, PAS

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EXPERTISE

My research is aimed at developing heavy-metal-free quantum dots for solar-driven chemistry, sensing & biomedicine, and compositional engineering of metal halide perovskites for next-generation solar cells and energy storage devices. The preparation approaches rely on classical wet methods and mechanochemical solvent-free synthesis.

Collaboration: Prof. Michael Greatzel (EPFL) and Prof. Władysław Wieczorek (Warsaw University of Technology).

SEEKING FOR COLLABORATION WITHIN

coordination chemistry, nanoscience & nanotechnology, perovskites & photovoltaics, mechanochemistry

RELEVANT PROJECTS

[GOTSolar](#)

[NCN/MAESTRO](#)



PhD, DSc
Stanisław Lewiński
EARTH OBSERVATION DIVISION

SPACE RESEARCH CENTRE, PAS

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EXPERTISE

The Earth Observation Division specializes in remote sensing, with a special focus on: • the Environment – monitoring of land and marine waters at the local and regional level, assessing the human impact on the environment, satellite climatology • Security and Crisis Management – assessing the risk of natural disasters (floods, fires) using satellite technology (monitoring developments in time), border control, planning large events • Spatial Planning • Education

SEEKING FOR COLLABORATION WITHIN

environment, satellite data, climatology

RELEVANT PROJECTS

[EOTiST](#)

[MAIL](#)



PhD

Agnieszka Ciemięga

LABORATORY OF FUNCTIONAL MATERIALS
AND MICROREACTORS

INSTITUTE OF CHEMICAL ENGINEERING, PAS

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EXPERTISE

The work of our laboratory is focused on the synthesis of advanced nanoporous materials and their applications in catalysis or sorption processes. Recently, our research interests have concentrated on developing highly effective monolithic microreactors for the continuous production of organic compounds in the liquid phase. We are experienced in surfacemodificationwithorganic/inorganicmoieties and characterization of structural, physicochemical, and catalytic properties of materials.

SEEKING FOR COLLABORATION WITHIN

microreactors, porous materials, catalysis

RELEVANT PROJECTS

[INTERACT](#)

[NCN funded project](#)

[NCN funded project](#)



PhD

Anna Pawlaczyk-Kurek

LABORATORY OF GAS AND LIQUID SEPARATION

INSTITUTE OF CHEMICAL ENGINEERING, PAS

ANIA.PAWLACZYK@IICH.GLIWICE.PL

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EXPERTISE

Our specialization is chemical engineering. We work on separating gas mixtures by adsorption and membrane methods as well as sorption tests of gases on different materials. We concentrate especially on biogas enrichment and carbon dioxide capture. Our scientific interests also focus on different lean methane–air mixture utilization methods, especially thermal combustion in thermal reversal reactors. We are interested in catalytic and thermal reactors, and kinetic studies of reactions.

SEEKING FOR COLLABORATION WITHIN

greenhouse gasses, gas purification, biogas upgrading, chemical reactor engineering, CCUS

RELEVANT PROJECTS

[INTERACT](#)

[KIC Innoenergy/SECoal](#)

[KIC Innoenergy/ACoPP](#)



PhD

Marzena Iwaniszyn

LABORATORY OF STRUCTURAL CATALYTIC REACTORS

INSTITUTE OF CHEMICAL ENGINEERING, PAS

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EXPERTISE

Our main research activities focus on the characterization of catalytic reactors for processes such as catalytic oxidation of methane and volatile organic compounds, selective catalytic reduction of nitrogen oxides, and hydrogen sulfide utilization. We conduct experimental investigations as well as CFD modelling of fluid flow, heat and mass transfer, and catalytic and kinetic studies. We are particularly interested in novel catalyst supports manufactured by 3D printing methods.

SEEKING FOR COLLABORATION WITHIN

chemical reactor engineering, catalytic reactors, CFD modelling, air purification

RELEVANT PROJECTS

[INTERACT](#)

[NCN funded project](#)

[NCN funded project](#)

[NCN funded project](#)



Professor
Wiesław Bujakowski
DIVISION OF RENEWABLE ENERGY SOURCES

**MINERAL AND ENERGY ECONOMY RESEARCH
INSTITUTE, PAS**

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EXPERTISE

The RES laboratory focuses on research related to geothermal energy. We are particularly interested in research on the recognition and use of geothermal waters for energy purposes. Our work aims to optimize the use of low-temperature renewable energy resources, common in Poland. In addition, these tests are combined with the assessment of the quality of geothermal waters in terms of their use in agriculture, medicine and balneotherapy.

SEEKING FOR COLLABORATION WITHIN

technologies for construction geothermal wells, water reinjection, desalination of geothermal waters

RELEVANT PROJECTS

[User4GeoEnergy](#)
[Geo4Food](#)
[KeyGeothermal](#)
[EnerGizers](#)



Professor
Lidia Gawlik
DIVISION OF MINERALS AND ENERGY SUSTAINABLE
DEVELOPMENT

**MINERAL AND ENERGY ECONOMY RESEARCH
INSTITUTE, PAS**

LIDIA.GAWLIK@MIN-PAN.KRAKOW.PL
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EXPERTISE

Our division is focused on research related to energy policy, energy consumption, and mobility. In particular, we are interested in projects related to the energy transition and its consequences.

Our research team has extensive experience in the modeling of energy systems. We work on the social, economic, technical, environmental, and legal aspects of energy and mineral resources, including fossil fuels, renewable energy sources, clean transport, and green hydrogen.

SEEKING FOR COLLABORATION WITHIN

energy policy, energy transition, coal regions, renewable energy, green hydrogen, coal regions

RELEVANT PROJECTS

[ENTRANCES](#)
[TANDEM](#)
[KAWSOL](#)
[DTA](#)



Professor
Magdalena Wdowin
DIVISION OF APPLIED GEOCHEMISTRY AND ENVIRONMENTAL
ENGINEERING

**MINERAL AND ENERGY ECONOMY RESEARCH
INSTITUTE, PAS**

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EXPERTISE

Our division is focused on waste management activities. In particular, we are interested in field of environmental pollution removal using solid sorbents. We work on the synthesis of aluminosilica micro/mesoporous materials from silica wastes and using them for the purification of gases and wastewaters as well as for gas storage (H₂) and capture (CO₂). We have extensive experience in mineralogical, chemical, textural, and geochemical analysis as well as the investigation of sorption properties.

SEEKING FOR COLLABORATION WITHIN

utilization of fly ash and aluminosilicate waste, purification of gases and wastewaters, H₂ storage

RELEVANT PROJECTS

[ZIF-X-CARBON](#)
[GeoReco](#)
[SFZCHSA](#)
[CO2ZeoCap](#)

Cluster 6



Cluster 6

Food, Bioeconomy, Natural Resources, Agriculture and Environment

This cluster aims at reducing environmental degradation, halting and reversing the decline of biodiversity on land, inland waters and sea and better managing natural resources through transformative changes of the economy and society in both urban and rural areas.

It will ensure food and nutrition security for all within planetary boundaries through knowledge, innovation and digitalisation in agriculture, fisheries, aquaculture and food systems and steer and accelerate the transition to a low carbon, resource efficient circular economy and sustainable bioeconomy, including forestry.

AREAS OF INTERVENTION

- environmental observation
- biodiversity and natural resources
- agriculture, forestry and rural areas
- seas, oceans and inland waters
- food systems
- bio-based innovation systems in the EU's bioeconomy
- circular systems

Source: [Cluster 6](#)



PhD, DSc

Oskar Kowalewski

RESEARCH LABORATORY OF ADVANCED STUDIES

INSTITUTE OF ECONOMICS, PAS

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EXPERTISE

Our laboratory is focused on research in the field of finance, in particular in the fields of corporate governance, banking, and new technologies (fintech). In the last area, the subject of study is the impact of innovation on the activities of financial intermediaries. The research carried out by the team is also interdisciplinary in nature, combining elements of finance, in particular banking, with agro-economics, and analyzes of the impact of climate change on the financial sector.

SEEKING FOR COLLABORATION WITHIN

finance, corporate governance, fintech, climate finance, agro-economics

RELEVANT PROJECTS

FINEXCA

Drought



PhD, DSc

Krzysztof Niedziałkowski

ENVIRONMENTAL SOCIOLOGY LAB

INSTITUTE OF PHILOSOPHY AND SOCIOLOGY,
PAS

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EXPERTISE

Our laboratory is focused on the sociological and political analyses of the interactions between society and the environment. In particular, we are interested in the development of environmental governance and policies over time and the impact of human agency, social structures, culture, and environmental changes on the institutions regulating socio-ecological systems. We work on such policy areas as biodiversity conservation, forest policy, land use planning, and climate policy.

SEEKING FOR COLLABORATION WITHIN

environmental policy and governance, biodiversity, water, food, energy, climate nexus

RELEVANT PROJECTS

[LEARNFORCLIMATE](#)

[LINKAGE](#)

Max Planck Society funded project

NCN/OPUS



PhD, DSc

Katarzyna Zawalińska

LABORATORY OF ECONOMIC MODELLING

INSTITUTE OF RURAL AND AGRICULTURAL
DEVELOPMENT, PAS

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EXPERTISE

The laboratory is focused on research and evaluation of policy instruments aimed at performance of farming systems and delivery of their functions. In particular, we are interested in resilience and sustainability of farming and seek to support its thrive towards ecologisation, climate-neutrality and environmental friendliness. In our research we employ both quantitative and qualitative approaches within economic, social, environmental and institutional dimensions.

SEEKING FOR COLLABORATION WITHIN

agriculture, resilience, sustainability, food production, farming practices, policy evaluation

RELEVANT PROJECTS

[SURE-Farm](#)

[LIFT](#)

[BioMonitor4CAP](#)

[SoilValues](#)



PhD, DSc

Paweł Chmieliński

LABORATORY ON SUSTAINABLE EUROPEAN FOOD SYSTEMS

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EXPERTISE

The team is focused on studying local and regional food systems, as well as small to medium sized farms. We mobilize data, research, and university resources to advocate for more sustainable, equitable food systems. We explore how food systems interact with public health, economics, society, and the environment and convene and connect researchers, community partners, food system stakeholders and consumers to mobilize for societal change.

SEEKING FOR COLLABORATION WITHIN

sustainable food systems, agriculture, public policy, governance, research and innovation, CEECs

RELEVANT PROJECTS

[FoodPathS](#)

[BIOEASTsUP](#)



PhD

Anna Rosa

RESEARCH TEAM ON REGENERATIVE AGRICULTURE

INSTITUTE OF RURAL AND AGRICULTURAL
DEVELOPMENT, PAS

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EXPERTISE

The team focuses on disseminating the idea of sustainable farming systems (regenerative agriculture) encompassing both productive, economic, and, social aspects. Our research considers all of them. Trends related to environmental protection and respect for the climate force agriculture to conduct production using the latest technologies, minimisation of mineral fertilisation and pesticide use, reduction of energy consumption in production, and maintaining the transparency of operations.

SEEKING FOR COLLABORATION WITHIN

regenerative agriculture, biologization, sustainable development, adaptability to climate change

RELEVANT PROJECTS

[Biologization](#)



PhD, DSc

Edyta Kiedrzyńska

RESEARCH TEAM: WASTEWATER PURIFICATION

EUROPEAN REGIONAL CENTRE FOR
ECOHYDROLOGY, PAS

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EXPERTISE

The main focus of our research is on quantifying the transfer of nutrients, xenobiotics, and pharmaceuticals along the river continuum from source to estuary, evaluating the influence of Wastewater Treatment Plants (WWTPs) on the eutrophication and contamination of rivers and the Baltic Sea, and developing innovative Nature-Based Solutions for enhancing the efficiency of small and medium-sized WWTPs.

SEEKING FOR COLLABORATION WITHIN

WWTP, P, N, xenobiotics, pharmaceuticals, ecohydrology, nature-based solutions

RELEVANT PROJECTS

[NEURON](#)

[FARMIKRO](#)

[AZOSTOP](#)



PhD, DSc

Katarzyna Izydorczyk

RESEARCH TEAM: WATER MANAGEMENT
IN AGRICULTURE BASIN

EUROPEAN REGIONAL CENTRE FOR
ECOHYDROLOGY, PAS



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EXPERTISE

The main study area of our team is the holistic approach to water management in agricultural landscapes, with a special emphasis on developing Nature-Based Solutions for reducing non-point source pollution output into the water catchment, and creating means for local cooperation between landowners, farmers, and authorities. Our research and networking also serve to develop, test, assess, and implement Nature-Based Solutions on local and regional scale.

SEEKING FOR COLLABORATION WITHIN

agriculture landscape, non-point source pollutions, nitrogen, phosphorus, land/water ecotones

RELEVANT PROJECTS

[EKOROB](#)

[WATERDRIVE](#)

[RECONNECT](#)



Professor

**Joanna
Mankiewicz-Boczek**

LABORATORY OF MOLECULAR ECOHYDROLOGY

EUROPEAN REGIONAL CENTRE FOR
ECOHYDROLOGY, PAS



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EXPERTISE

Our Lab is focused on gaining knowledge about the diversity and role of microorganisms in both the cycling of N and P and the interaction of micro-organisms in aquatic ecosystems in order to better understand their interrelationships, and consequently the benefits as well as the threat to the environment. We are interested in interactions between microorganisms associated with toxic cyanobacterial blooms, in terms of both threat management and searching for biotechnological solutions involving microorganisms.

SEEKING FOR COLLABORATION WITHIN

microorganisms, toxic cyanobacterial harmful algal bloom, genetic tools, environment, ecohydrology

RELEVANT PROJECTS

[ALGICYDY](#)

[NCBR/TANGO](#)

[CYANOCOST](#)



Professor

Magdalena Urbaniak

PLANT-BACTERIA PARTNERSHIP RESEARCH GROUP

EUROPEAN REGIONAL CENTRE FOR
ECOHYDROLOGY, PAS



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EXPERTISE

Our team is focused on investigating the plant-bacteria partnership for the purposes of effective removal of xenobiotics (POPs, CECs) from the environment. In particular we are interested in elucidating the orchestrated net of interactions between bacteria, plants, and plant exudates and harnessing these for the detoxification of soil and water. Our aim is to integrate phyto- and bioremediation (rhizobacteria- or endophyte-assisted phytoremediation) methods for xenobiotics removal.

SEEKING FOR COLLABORATION WITHIN

bioremediation, phytoremediation, persistent organic pollutants, compounds of emerging concern

RELEVANT PROJECTS

[Ministry funded project](#)

[NCN funded project](#)

[CHEMFELLS4UCTP](#)



PhD

Kinga Krauze

RESEARCH TEAM: SOCIO-ECOHYDROLOGY AND ECOSYSTEM SERVICES

EUROPEAN REGIONAL CENTRE FOR
ECOHYDROLOGY, PAS

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EXPERTISE

Our laboratory is focused on social, economic, and ecological drivers of natural capital and water management issues, from the perspective of both resource quality and availability and people's conflicting needs (nexus) and attitudes. In particular, we are interested in long-term processes at the nature-human interface. We work on ecosystem services assessment, implementation of Nature-Based Solutions in rural and urban areas, and biodiversity and risk assessment.

SEEKING FOR COLLABORATION WITHIN

NBS, coupled human and nature systems (CHANS), water management, modelling

RELEVANT PROJECTS

[eLTER PPP](#)

[BioAgora](#)

[Eupolis](#)

[ATENAS](#)



Professor

Carsten Carlberg

NUTRIGENOMICS TEAM

INSTITUTE OF ANIMAL REPRODUCTION
AND FOOD RESEARCH, PAS

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EXPERTISE

Our expertise is in nutrigenomics, particularly nutritional epigenetics, with the aim of understanding how dietary molecules can affect the programming of epigenome and gene expression. The focus of our studies is epigenetic programming of immune cells, which we isolate from participants. These provide large-scale data on changes in DNA methylation, chromatin accessibility, histone modifications, and transcription factor binding, as well as the transcriptome at different time points of the intervention.

SEEKING FOR COLLABORATION WITHIN

nutrigenomics, epigenetics, vitamin D, disease prevention, innate immunity

RELEVANT PROJECTS

[ERA Chair WELCOME2](#)





Professor
Dagmara Złotkowska
IMMUNOLOGY AND FOOD MICROBIOLOGY DEPARTMENT

**INSTITUTE OF ANIMAL REPRODUCTION
AND FOOD RESEARCH, PAS**

D.ZLOTKOWSKA@PAN.OLSZTYN.PL
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EXPERTISE

Our research focuses on the effects of food components on the immune system, gut, microbiome, and digestive processes. We carry out studies in small animal models and cell lines to monitor the profile of specific immune cells and release molecules, changes in the microbiome, and correlation of digestive process in the gastrointestinal tract. We try to determine the role of specific food compounds in gut-brain communication. Our target is to help prevent malnutrition, allergies, food intolerance, and obesity.

SEEKING FOR COLLABORATION WITHIN

food immunity, microbiome, food processing 4 health, milk modification, gut model

RELEVANT PROJECTS

[EIT FOOD Champp](#)
[EIT FOOD](#)
[EIT FOOD V-PLACE](#)
[COST action InfoGEST](#)



Professor
Wiesław Wiczowski
CHEMISTRY AND BIODYNAMICS OF FOOD DEPARTMENT,
METABOLOMICS LABORATORY

**INSTITUTE OF ANIMAL REPRODUCTION
AND FOOD RESEARCH, PAS**

W.WICZKOWSKI@PAN.OLSZTYN.PL
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EXPERTISE

We study qualitative/quantitative changes of bio-active compounds during plant growth in harvested raw materials and in technological processes of food/feed, and develop innovative food products rich in these compounds. We evaluate a wide spectrum of multifunctional properties of foods and bioactive compounds in *in vitro* and *ex vivo* models. We carry out non-clinical and animal-model studies on the bioavailability of bioactive compounds and their ability to cross biological barriers.

SEEKING FOR COLLABORATION WITHIN

nutritional origins of health and diseases

RELEVANT PROJECTS

[MicrobiomeSupport](#)
[COST POSITIVE](#)



Professor
Monika Kaczmarek
HORMONAL ACTION MECHANISMS DEPARTMENT,
MOLECULAR BIOLOGY LABORATORY

**INSTITUTE OF ANIMAL REPRODUCTION
AND FOOD RESEARCH, PAS**

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EXPERTISE

We focus on the molecular mechanisms of embryo/neonatal-maternal interactions, leading to successful maintenance of a species. Our recent research is aimed at diet-mediated programming of reproductive health over generations. In studying the pathways conserved among Metazoans, we use from single cells up to whole organisms. To streamline our field of study we adopt both wet and dry lab approaches, including high-throughput tools, reporter gene assays, microscopy, and several *in vivo* and *in vitro* assays.

SEEKING FOR COLLABORATION WITHIN

nutritional programming, developmental origins of health and diseases, reproductive biology

RELEVANT PROJECTS

[ERA Chair WELCOME2](#)
[BIOANIREP](#)



PhD

Magdalena Weidner-Glunde

REPRODUCTIVE IMMUNOLOGY AND PATHOLOGY DEPARTMENT,
MOLECULAR MICROBIOLOGY AND VIROLOGY LABORATORY

**INSTITUTE OF ANIMAL REPRODUCTION
AND FOOD RESEARCH, PAS**



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EXPERTISE

Our main interest is in virus–host interactions, with a focus on herpesviruses, currently human cytomegalovirus and the associated congenital disease. We study virus latency with an emphasis on genome persistence and tethering, using immunoFISH, metaphase chromosomes spreads, and confocal fluorescent microscopy. We use cloning to study the functions of proteins and the lentiviral system to create stable cell lines. We have reprogrammed fibroblasts to iPSC and established an *in vitro* system of differentiation towards neurons.

SEEKING FOR COLLABORATION WITHIN

organoid cultures, neural in vitro models, 3C & 3D structure of (viral) genome, animal herpesviruses

RELEVANT PROJECTS

[COST IMPROVE](#)



PhD, DSc

Daniel Źarski

FISH REPRODUCTION AND DEVELOPMENT GROUP

**INSTITUTE OF ANIMAL REPRODUCTION
AND FOOD RESEARCH, PAS**



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EXPERTISE

Our team is focused on reproductive biology, physiology, gamete biology, and early development in commercial and non-model fishes. Our science is based on close collaboration with aquaculturists and ecologists and includes modern-omics research tools. Our current activities cover: gamete management, short-term storage and ageing, sperm cryopreservation, exploration of extrinsic and intrinsic factors affecting gamete and progeny quality, and immune status and welfare in wild and farmed fishes.

SEEKING FOR COLLABORATION WITHIN

fish, aquaculture, reproductive biology, fish and gametes biology, biodiversity, welfare, immunology

RELEVANT PROJECTS

[MOMS IN CHARGE](#)

[EIT FOOD INSPIRE](#)



Professor

Jarosław Olav Horbańczuk

DEPARTMENT OF BIOTECHNOLOGY AND NUTRIGENOMICS

**INSTITUTE OF GENETICS
AND ANIMAL BIOTECHNOLOGY, PAS**



J.HORBANCZUK@IGBZPAN.PL

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EXPERTISE

Our team is focused on improving food quality of animal origin in sustainable production systems with reference to bioactive components, nutrigenomics and biotechnology. We work on the genetic aspect of food quality improvement and the influence of feeding and housing systems on modifying the chemical composition and nutritive value of milk, meat, and eggs, with special reference to bioactive components.

SEEKING FOR COLLABORATION WITHIN

nutrigenomics, epigenetics, biotechnology, food quality of animal origin

RELEVANT PROJECTS

[BIOFOOD](#)

[Centre of Excellence](#)

[Bio-Centre](#)



PhD, DSc

Joanna Marchewka

DEPARTMENT OF ANIMAL BEHAVIOR AND WELFARE

**INSTITUTE OF GENETICS
AND ANIMAL BIOTECHNOLOGY, PAS**



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EXPERTISE

Our team is focused on research in farm animal behavior, animal welfare and neurobiology. In particular, we are interested in assessing and improving animals' welfare through understanding of their needs and reactions to stressors. We work on developing animal welfare indicators, social bonds, activity and use of resources, as well as basic research on stress genetics and effects. We investigate animals reared in various production systems, from intensive to organic.

SEEKING FOR COLLABORATION WITHIN

immunology, microbiome, nutrition, ITsolutions, data handling, economy of animal production & welfare

RELEVANT PROJECTS

[mEATquality](#)

[aWISH](#)

[Best Practice Hens](#)



PhD, DSc

Irene Camerlink

ANIMAL SOCIAL BEHAVIOR GROUP, DEPARTMENT
OF ANIMAL BEHAVIOR AND WELFARE

**INSTITUTE OF GENETICS
AND ANIMAL BIOTECHNOLOGY, PAS**



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EXPERTISE

Our group focuses on animal social behavior, with studies dealing with animal cognition, social interactions, and physiology. The main study animal is the pig, as a versatile research model with relevance to human science and animal welfare. Our team members have backgrounds in ethology, animal sciences, and evolutionary biology. Strong international collaboration, mainly with European countries, facilitate large-scale data collection and the use of novel techniques.

SEEKING FOR COLLABORATION WITHIN

animal behavior, animal welfare, oxytocin, cognition, social behavior, ethology

RELEVANT PROJECTS

[aWISH](#)

[LIFT](#)

NCN/OPUS20

FORMAS funded project



PhD, DSc

Hiroaki Taniguchi

TEAM FOR GENOME EDITING AND TRANSCRIPTIONAL
REGULATION/DEPARTMENT OF EXPERIMENTAL EMBRYOLOGY

**INSTITUTE OF GENETICS
AND ANIMAL BIOTECHNOLOGY, PAS**



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EXPERTISE

With expertise in the field of genome and molecular biology in humans and animals, our group is one of the very few laboratories in Poland that are uniquely positioned to make exciting new contributions to this field of study using CRISPR-mediated gene editing. Our research mission is to prove novel mechanisms in which genetic and epigenetic and transcriptional regulation play essential roles in regulating genetic diseases in animals using recent gene editing tools.

SEEKING FOR COLLABORATION WITHIN

Cancer Biology, Neuronal Disease, Transcription Factors, Functional Annotation of Mammalian Genome

RELEVANT PROJECTS

[BOVREG](#)

NCN/PRELUUDIUMBIS

NCN/OPUS13



Professor
Iwona Żur

GROUP OF MICROSPORE EMBRYOGENESIS

INSTITUTE OF PLANT PHYSIOLOGY, PAS

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EXPERTISE

Our laboratory is focused on the mechanisms regulating the process of microspore embryogenesis (ME) in agronomically important plant species. In particular, we are interested in the physiological, molecular, and (epi)genetic background of the formation of embryo-like structures and their regeneration into haploid/doubled haploid plants. We seek to identify factors determining the efficiency of ME induction in both responsive (e.g. rapeseed, barley) and recalcitrant crops (e.g. rye).

SEEKING FOR COLLABORATION WITHIN

cell death, gene/transcriptome regulation, gene editing, post-translational modification, signaling

RELEVANT PROJECTS

[NCN funded project](#)

[NCN funded project](#)

[NCN funded project](#)



Professor
Anna Janeczko

GROUP OF PLANT STRESS: STEROIDS

INSTITUTE OF PLANT PHYSIOLOGY, PAS

A.JANECZKO@IFR-PAN.EDU.PL

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EXPERTISE

This laboratory is focused on: (1) uncovering the physiological function and metabolism of brassinosteroids in the context of the acclimation and deacclimation of crop plants in changing climate conditions; (2) studying the presence and physiological activity of mammalian steroid hormones and ecdysteroids (insect hormones) in plants.

SEEKING FOR COLLABORATION WITHIN

climate changes & plant stress, crop plants, hormonal regulation, hormone crosstalk, photosynthesis

RELEVANT PROJECTS

[NCN funded project](#)

[NCN funded project](#)

[NCN funded project](#)

[NCN funded project](#)



PhD, DSc
Ilona Czyczyło-Mysza

GROUP OF PLANT STRESS: ROLE OF EPICUTICULAR WAX

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EXPERTISE

The laboratory is focused on the role of the wax layer in rye resistance to drought stress, including its chemical composition and crystal morphology; to study the mechanisms of drought resistance, including physiological, biochemical, and genetic aspects; to characterize developmental, stage-dependent, physiological, biochemical and molecular characteristics of ears, stems, flag leaves, and grains during abiotic stress.

SEEKING FOR COLLABORATION WITHIN

drought, gene expression, genetic mapping, phenotyping, photosynthesis, proteome, wax, yield

RELEVANT PROJECTS

[NCN/WaxyGen](#)



Professor
Ewa Niewiadomska
ABIOTIC STRESS RESEARCH: REDOX SIGNALS

INSTITUTE OF PLANT PHYSIOLOGY, PAS

E.NIEWIADOMSKA@IFR-PAN.EDU.PL
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EXPERTISE

Our aim is to elucidate the multi-level acclimation of plants' photosynthetic machinery to salinity and drought. This includes the structural and functional modifications of photosynthetic apparatus for efficient photochemical reactions (rearrangement of photosynthetic antennae, mechanism of switching between the linear and cyclic electron flows, updating of ROS production and scavenging, redox signaling from chloroplasts), as well as for optimal CO₂ fixation. We are also interested in redox-regulated modulation of primary and secondary metabolite production.

SEEKING FOR COLLABORATION WITHIN

drought, photosynthesis, redox signaling, salinity, secondary metabolites

RELEVANT PROJECTS

[NCN/Miniatura](#)
DAAD-MNiSW funded project
[NCN funded project](#)
[NCN funded project](#)



Professor
Ireneusz Ślesak
CYANOBACTERIA AND ALGAE RESEARCH

INSTITUTE OF PLANT PHYSIOLOGY, PAS

I.SLESIAK@IFR-PAN.EDU.PL
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EXPERTISE

Our research group focuses on the metabolism of cyanobacteria and microalgae. We are interested in photosynthetic activity in response to selected abiotic stress factors, e.g. UV radiation and cosmic-ray components, and in possible inducers of the biosynthesis of nutrients/proteins in cyano-bacteria and algae. In addition, analyses using molecular phylogenetics are carried out to reveal the evolution of oxygenic photosynthesis in the early stages of the evolution of life on Earth.

SEEKING FOR COLLABORATION WITHIN

abiotic stress, algae, cosmic rays, cyanobacteria, nutrients, oxygenic photosynthesis, UV radiation

RELEVANT PROJECTS

[Project](#)
NCN/MINIATURA 5



PhD, DSc
Ewa Surówka
ABIOTIC STRESS RESEARCH: HALOPHYTES AND GLYCOPHYTES IN AGRICULTURE AND BIOECONOMY

INSTITUTE OF PLANT PHYSIOLOGY, PAS

E.SUROWKA@IFR-PAN.EDU.PL
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EXPERTISE

Our research focuses on halo-/glycophytes performing C3, C4, or CAM metabolism, including native and invasive species and crops

Our interests include: physiological, biochemical, and molecular resistance mechanisms and signal transduction at the plant, organ, and cellular levels under (a)biotic stresses (e.g. drought, salinity), the interaction of halo- and glycophytes – including in the root system, and the use of halophytes and invasive species in soil remediation (e.g. for agriculture) as well as in the bioeconomy.

SEEKING FOR COLLABORATION WITHIN

arid & saline environment, bioactive compounds, genes, oxidative stress, photosynthesis, transcript

RELEVANT PROJECTS

[NCN funded project](#)
[NCN funded project](#)
[NCN funded project](#)
[NCN funded project](#)



PhD
Łukasz Kajtoch
DEPARTMENT OF MOLECULAR BIODIVERSITY

INSTITUTE OF SYSTEMATICS AND EVOLUTION
OF ANIMALS, PAS

KAJTOCH@ISEZ.PAN.KRAKOW.PL
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EXPERTISE

Our research is focused on the evolution and ecology of insects. In particular, we are interested in the use of molecular information for solving phylogenetic, population genetic, or ecological questions. We work on taxa that are of particular interest for reasons of a taxonomic (for systematic revisions, barcoding, delimitation, etc.), evolutionary (for speciation and hybridization studies), population genetic (for conservation or management) or ecological (e.g. interactions among organisms) nature.

SEEKING FOR COLLABORATION WITHIN

barcoding, integrative taxonomy, molecular ecology, phylogenetics, population & conservation genetics

RELEVANT PROJECTS

[NCN/OPUS 22](#)



PhD
Dawid Moron
DEPARTMENT OF ECOLOGY

INSTITUTE OF SYSTEMATICS AND EVOLUTION
OF ANIMALS, PAS

MORON@ISEZ.PAN.KRAKOW.PL
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EXPERTISE

Our research strives to expand the comprehensive understanding of the impact of global change on the ecological processes affecting organisms living in the Anthropocene. Our team background includes pollinator ecology and related ecosystem services. The questions considered in our projects concern environmental factors acting at the level of organisms (such as stressors), communities (invasive species), the landscape (habitat fragmentation) and the globe (climate change).

SEEKING FOR COLLABORATION WITHIN

bees, biological conservation, climate change, ecosystem services, farmland, landscape, pollination

RELEVANT PROJECTS

[NCN/OPUS 19](#)
[NCN/OPUS 21](#)



PhD
Łukasz Przybyłowicz
DEPARTMENT OF INVERTEBRATE ZOOLOGY

INSTITUTE OF SYSTEMATICS AND EVOLUTION
OF ANIMALS, PAS

LUKASZ@ISEZ.PAN.KRAKOW.PL
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EXPERTISE

The Lepidoptera Team is focused on the systematics, evolution, and biogeography of moths. In particular, we are interested in an extremely diverse group called the tiger moths (Arctiinae), with more than 11,000 described species, which serves as a model for elucidating more general scientific questions. We work on its biodiversity in the tropics, especially in Africa. Recent studies tackle the large-scale dispersal drivers and their significance for the composition of world faunas.

SEEKING FOR COLLABORATION WITHIN

Arctiinae, biogeography, evolution, Lepidoptera, Madagascar, phylogeny, systematics, taxonomy, tropics

RELEVANT PROJECTS

[NCN/OPUS 15](#)
[NCN/PRELUDIUM 20](#)



PhD, DSc

Maciej Szaleniec

JOINT LABORATORY OF BIOTECHNOLOGY
AND ENZYME CATALYSIS

INSTITUTE OF CATALYSIS AND SURFACE
CHEMISTRY, PAS

MACIEJ.SZALENIEC@IKIFP.EDU.PL

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EXPERTISE

Our laboratory is focused on studying enzyme catalysis. We are interested in basic research on reaction mechanisms as well as development of novel biocatalytic methods for industrial applications. We work on enzymes catalyzing the synthesis of alcohols (alcohol dehydrogenases, molybdenum hydroxylases), the introduction of double bonds in a steroid core (3-ketosteroid dehydrogenases), the formation of C-C bonds and oxidation of aldehydes/reduction of carboxylic acids (tungsten aldehyde dehydrogenases).

SEEKING FOR COLLABORATION WITHIN

directed evolution of enzymes, rational-based engineering of enzymes, cascade systems

RELEVANT PROJECTS

[FAEREACTION](#)

[Project](#)



PhD, DSc

Maciej Guzik

BIOPROCESS DEVELOPMENT LABORATORY

INSTITUTE OF CATALYSIS AND SURFACE
CHEMISTRY, PAS

MACIEJ.GUZIK@IKIFP.EDU.PL

+48 737 586 588



EXPERTISE

Our research interests are closely related to a group of bacterial polymers – polyhydroxyalkanoates (PHA). In our research we focus on understanding the processes by which these polymers are produced by microorganisms from various renewable carbon sources. Within our Laboratory, we focus on the search for applications for these polymers. Parallel research concerns PHA monomers; here we develop a range of new and unique chemical compounds.

SEEKING FOR COLLABORATION WITHIN

bioprocess development, industrial microbiology, chemistry, medicine

RELEVANT PROJECTS

[TMS](#)

[FunBioMed](#)



Professor

Ksenia Pazdro

MARINE CHEMISTRY & BIOCHEMISTRY DEPARTMENT

INSTITUTE OF OCEANOLOGY, PAS

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EXPERTISE

The Marine Chemistry and Biochemistry Department investigates the following topics in marine ecosystems (the Baltic Sea and Arctic): heavy metals, radionuclides, cycling of organic emerging contaminants (Marine Geotoxicology Laboratory), C, N, P, O cycling (Marine Biogeochemistry Laboratory), mercury cycling, dumped munitions and wrecks containing hazardous materials, sediment/water interface fluxes of pollutants (Laboratory of Contemporary Threats to Marine Ecosystems), and biochemical processes (Marine Biochemistry Laboratory).

SEEKING FOR COLLABORATION WITHIN

pollutants, environmental impact, marine CO₂ system, ocean acidification, Mercury, dumped munition, wrecks

RELEVANT PROJECTS

[CHEMSEA](#)

[DAIMON](#)

[CONTRA](#)

[AMMOTRACE](#)



Professor
Maria Włodarska-Kowalczuk
MARINE ECOLOGY DEPARTMENT

INSTITUTE OF OCEANOLOGY, PAS

MARIA@IOPAN.PL
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EXPERTISE

The Department of Marine Ecology focuses on marine diversity and ecosystem function. We are a diverse group with expertise in marine protists, zooplankton, benthic vegetation, and invertebrates. We work in a wide range of marine habitats, including the sea-ice/water interface, water column, sandy beaches and rocky coasts, underwater meadows, and marine sediments from coastal waters to abyssal depths, with a geographical focus on temperate and polar regions.

SEEKING FOR COLLABORATION WITHIN

marine ecology, biodiversity, productivity, blue carbon, plankton, benthos, Arctic, Baltic Sea

RELEVANT PROJECTS

[MARBEFES](#)
[CoastCarb](#)
[ECOTIP](#)
[ARICE](#)



Professor
Mirosław Darecki
MARINE PHYSICS DEPARTMENT

INSTITUTE OF OCEANOLOGY, PAS

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EXPERTISE

The main research areas are marine optics, bio-optics, remote sensing, and acoustics. We have expertise in conducting optical measurements and analyzing optical and remote sensing data in various marine environments, in developing optical methods for investigating biological and physical processes in the sea and remote sensing algorithms for retrieval of water constituents, and in devising hydroacoustic techniques for classifying benthic habitats, seabed morphometry, and biological organisms.

SEEKING FOR COLLABORATION WITHIN

development of hydroacoustic classification techniques to monitor marine ecosystems and environment

RELEVANT PROJECTS

[DAIMON2](#)
[AMMOTRACe](#)
[ProBaNNt](#)
[BONUS OPTIMUS](#)



Professor
Artur Burzyński
GENETICS & MARINE BIOTECHNOLOGY DEPARTMENT

INSTITUTE OF OCEANOLOGY, PAS

ABURZYNSKI@IOPAN.PL
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EXPERTISE

Our research tasks are focused on the biochemistry and genetics of marine organisms. We study the molecular mechanisms associated with adaptation to marine environment. Investigating the unique genetic features of model marine organisms, molecular biodiversity, and methods of marine environment preservation are our essential scientific goals.

SEEKING FOR COLLABORATION WITHIN

marine biogeography, fish welfare, stress, mitochondrial genome evolution, antibiotic resistance genes

RELEVANT PROJECTS

[REDESCHILE](#)
[SKINSTRESS](#)



PhD

Agnieszka Gąszczak

LABORATORY OF BIOREACTORS AND BIOCATALYTIC PROCESSES

INSTITUTE OF CHEMICAL ENGINEERING, PAS

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EXPERTISE

Our team is interested in green chemistry and bioprocess technologies for ecological pollution management, particularly in the application of xenobiotics biodegradation for environmental treatment. We are experienced in developing biological gas purification technologies. Our activities include both stoichiometric and kinetic tests as well as bioprocess modelling. We pay special attention to process optimization and creating a database necessary to design effective bioreactors.

SEEKING FOR COLLABORATION WITHIN

biotechnology, biodegradation of organic compounds, air bio-purification

RELEVANT PROJECTS

[INTERACT](#)



PhD, DSc

Magdalena Jabłońska-Czapla

DEPARTMENT OF WASTE MANAGEMENT AND ENVIRONMENTAL ANALYZES

INSTITUTE OF ENVIRONMENTAL ENGINEERING, PAS

MAGDALENA.CZAPLA@IPISPAN.EDU.PL

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EXPERTISE

Our team is interested in environmental analytical chemistry, impact of anthropogenic activity on transformations and mobility of various elements in the environment. We are particularly interested in metal(loid)s (e.g. As, Sb, Cr, Tl, Te, In, Ge) and their species in the water-soil-sediment environment, using ICP-OES, ICP-MS and HPLC-ICP-MS techniques. We are developing new methods for element speciation, fractionation and we use it in environmental research.

SEEKING FOR COLLABORATION WITHIN

environmental and material science, environmental analytical chemistry, electrowaste, photovoltaics

RELEVANT PROJECTS

[MOSPESIL](#)

[NCN funded project](#)



Professor

Tadeusz Magiera

DEPARTMENT OF ENVIRONMENTAL MAGNETISM AND RECLAMATION

INSTITUTE OF ENVIRONMENTAL ENGINEERING, PAS

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EXPERTISE

Our laboratory is focused on the study of soil contamination, especially using geophysical methods (e.g. soil magnetometry in line with ISO 21226:2019) and practical implementation of "in situ" methods for the identification and precise location of contaminated areas, as well as the development of guidelines for reclamation and bioremediation of post-industrial areas. We also work on assessing the ecological quality of biomass growing on contaminated soils, used for domestic heating.

SEEKING FOR COLLABORATION WITHIN

soil deal for Europe, living labs & lighthouses, soil pollution monitoring & database development

RELEVANT PROJECTS

[IMPACT](#)

[NCN funded project](#)

[NCN funded project](#)

[NCN funded project](#)



PhD
Krzysztof Klejnowski

DEPARTMENT OF AIR PROTECTION
- POLLUTION IMMISSION TEAM

INSTITUTE OF ENVIRONMENTAL ENGINEERING,
PAS



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+48 32 271 64 81 ext. 119

EXPERTISE

Our laboratory focuses on the study of the chemical composition of atmospheric aerosols. In particular, we are interested in the carbon fraction. We work on assessing the time-space variability of the chemical composition of atmospheric pollutants, the impact of selected types of source on the state of air quality, and the identification of emission sources based on the chemical profile of aerosols. We cooperate on the use of low-cost sensors to assess and monitor air quality.

SEEKING FOR COLLABORATION WITHIN

aerosols, OC/EC & biomass burning markers analysis, measurement campaigns, low cost samplers

RELEVANT PROJECTS

[ACTRIS 2](#)

[ACTRIS](#)

[ACTRIS PL](#)

[NCN funded project](#)



Professor
Marzena Smol

DIVISION OF BIOGENIC RAW MATERIALS

MINERAL AND ENERGY ECONOMY RESEARCH
INSTITUTE, PAS



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EXPERTISE

Our division focuses on environmental management & engineering. We work on the recovery of raw materials from waste (e.g. phosphorus); fertilizers from waste; water in a circular economy & water footprint; water & wastewater treatment; the technological, legal, environmental & social aspects of biogenic raw material management; eutrophication; recommendations/roadmaps for sustainable & circular management of biogenic resources; education for a circular economy; stakeholders engagement (e.g. farmers).

SEEKING FOR COLLABORATION WITHIN

nutrients recovery, wastewater, water reuse, circular economy, green deal, phosphorus; education

RELEVANT PROJECTS

[LEX4BIO](#)

[NOVAFERT](#)

[Doc-ECE](#)

[Water-CE-management](#)



PhD
Alicja Kot-Niewiadomska

DIVISION OF MINERAL POLICY

MINERAL AND ENERGY ECONOMY RESEARCH
INSTITUTE, PAS



A.KN@MIN-PAN.KRAKOW.PL

+48 12 617 16 66 or +48 693 833 190

EXPERTISE

Our division is focused on the analysis of mineral resource management strategies in Poland, the EU, and worldwide, including trends in critical raw materials demand and supply. We are interested in the broadly understood mineral economy – from sources to end products – in the light of energy transformation and other global events. We work on the economic, environmental, social, and spatial possibilities of resource extraction from primary and secondary sources.

SEEKING FOR COLLABORATION WITHIN

mineral economy, raw materials policy, mineral deposit safeguarding, environmental impact assessment

RELEVANT PROJECTS

[NCN/MINATURA2020](#)

[MinLand](#)

[ROBOMINERS](#)



PhD, DSc

Sabina Górską

LABORATORY OF MICROBIOME IMMUNOBIOLOGY

**HIRSZFELD INSTITUTE OF IMMUNOLOGY
AND EXPERIMENTAL THERAPY, PAS**



SABINA.GORSKA@HIRSZFELD.PL

+48 71 337 11 72 ext. 148

EXPERTISE

Our laboratory studies the interaction between mammalian hosts and microbiota, seeking to uncover their impact on health and disease. In particular, we are interested in analyzing receptors and signaling pathways involved in the recognition and regulation of the immune system response by microflora and their effector molecules. We harness *in vitro* experiments, animal models, immunochemistry, structural analysis to devise new therapies for allergies, IBD, and neurodegenerative diseases.

SEEKING FOR COLLABORATION WITHIN

probiotics, allergy, mucosal immunology, pulmonary immunology, NMR, bacterial antigens, neuroimmunology

RELEVANT PROJECTS

[NCN/SONATABIS7](#)

[NCN/SONATA3](#)



EIC/EIT





The European Innovation Council (EIC) / The European Institute of Innovation and Technology (EIT)

The European Innovation Council (EIC) has been established under the EU Horizon Europe programme. It has a budget of €10.1 billion to support game changing innovations throughout the lifecycle from early stage research, to proof of concept, technology transfer, and the financing and scale up of start-ups and SMEs.

The European Institute of Innovation and Technology (EIT) supports the development of dynamic, long-term European partnerships among leading companies, research labs and higher education. These partnerships are called EIT Knowledge and Innovation Communities and each is dedicated to finding solutions to a specific global challenge, from climate change and sustainable energy to healthy living and food.

Source: [EIC](#) & [EIT](#)



PhD, DSc

Anna Ujwary-Gil

LABORATORY OF PROCESS AND NETWORK ANALYSIS

INSTITUTE OF ECONOMICS, PAS

UJWARY@INEPAN.WAW.PL

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EXPERTISE

Our Laboratory is at the forefront of exploring how inter-organizational networks, digital innovation hubs, and ecosystems drive sustainability, digital transformation, and innovative business models in the digital era. We excel in utilizing advanced social network analysis techniques within the dynamic digital economy and sustainability landscape. Our research is dedicated to examining economic ecosystems such as industry clusters, innovation networks, and food cooperatives from network structure and relational perspectives.

SEEKING FOR COLLABORATION WITHIN

sustainability, digital transformation, digital innovation hubs, industry clusters, social network analysis, networks, business model

RELEVANT PROJECTS

[REINVENT](#)

[REV4.0](#)



Professor

Marek Figlerowicz

DEPARTMENT OF MOLECULAR AND SYSTEMS BIOLOGY

INSTITUTE OF BIOORGANIC CHEMISTRY, PAS

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EXPERTISE

Our group focuses on cell engineering, particularly for the purposes of regeneration and interceptive medicine. We study factors shaping cell identities and states in the context of epigenetic rejuvenation, direct cell reprogramming, and intercellular communication via short- and long-distance RNA transport.

We combine cutting-edge single-cell spatial multi-omics, micro-patterned cell cultures, organoid models, and machine learning to model cell trajectories and control cell fate and functions.

SEEKING FOR COLLABORATION WITHIN

aging, cardiology, AI, epigenetics, transdifferentiation, RNA, extracellular vesicles, CRISPR, APOBEC

RELEVANT PROJECTS

[ECBiG-MOSAIC](#)

[NEBI](#)

[LifeTime](#)



Professor

Leszek Kaczmarek

LABORATORY OF NEUROBIOLOGY

NENCKI INSTITUTE OF EXPERIMENTAL BIOLOGY, PAS

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EXPERTISE

Our research is focused on extracellularly operating matrix metalloproteinase, MMP-9, which is produced and released at the excitatory synapses in response to enhanced neuronal activity and plays a paramount role in the synaptic plasticity underlying learning and memory as well as such neuropsychiatric disorders as the development of epilepsy, alcohol addiction, schizophrenia, autism spectrum and bipolar disorder.

SEEKING FOR COLLABORATION WITHIN

synaptic plasticity, MMP-9, learning, memory, schizophrenia, autism, epilepsy

RELEVANT PROJECTS

[ECMED](#)

[EXTRABRAIN](#)

[BRAINCITY](#)



Professor
Urszula Wojda

LABORATORY OF PRECLINICAL TESTING
OF HIGHER STANDARD

**NENCKI INSTITUTE OF EXPERIMENTAL BIOLOGY,
PAS**

U.WOJDA@NENCKI.EDU.PL

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EXPERTISE

The mission of our Laboratory is to translate discoveries from basic neuroscience into clinical trials. We conduct our own research focused on molecular mechanisms of aging-related diseases such as Alzheimer's disease (AD) and develop new diagnostics and therapy for AD. We also provide core-facility services for other scientific and R & D institutions. We offer preclinical testing of drug candidates in cellular and mouse models, in accordance with Good Laboratory Practice.

SEEKING FOR COLLABORATION WITHIN

neurodegeneration, Alzheimer's disease (AD), microRNA, metabolic dysfunctions, preclinical testing

RELEVANT PROJECTS

[ArrestAD](#)



Professor
Łukasz Marciniak

LUMINESCENT NANOPARTICLE FOR SENSING AND IMAGING
LUNASI GROUP,
DIVISION OF BIOMEDICAL PHYSICOCEMISTRY

**INSTITUTE OF LOW TEMPERATURE AND
STRUCTURE RESEARCH, PAS**

L.MARCINIAK@INTIBS.PL

+48 71 395 42 91



EXPERTISE

Our laboratory is focused on developing multi-functional nano- and microparticles for sensing and imaging of physical and chemical quantities. We are interested in applications of luminescence thermometry and manometry. We work on the implementation of remote temperature and pressure readout techniques for controlling biological and industrial processes. Additionally, we have developed a phosphor for LED, the plant cultivation industry, and NIR lightning.

SEEKING FOR COLLABORATION WITHIN

optical spectroscopy, luminescence, luminescent materials, sensing, nanoparticles, nanomaterials

RELEVANT PROJECTS

[HSTI](#)

[SensiTherm](#)



Professor
Artur Bednarkiewicz

LUMINESCENT NANOPARTICLE ASSISTED SENSING
AND IMAGING GROUP (LUNASI),
DIVISION OF BIOMEDICAL PHYSICOCEMISTRY

**INSTITUTE OF LOW TEMPERATURE AND
STRUCTURE RESEARCH, PAS**

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EXPERTISE

Our laboratory is focused on new colloidal luminescent nanomaterials and biodetection techniques (imaging, FRET biosensing) based on luminescence. We have expertise in synthesis of core-multiple shell nanoparticles doped with lanthanide ions, which could be alternative to organic fluorescent labels. They can be used for nanothermometry, FRET biosensing, optical cooling and heating, etc. We have experience in building customized optical/imaging/spectroscopic methods and instruments.

SEEKING FOR COLLABORATION WITHIN

biospectroscopy, biosensing, imaging, optical instruments, FRET, nanothermometry, hyperthermia

RELEVANT PROJECTS

[NanoTBTech](#)

[Sensitized Photon avalanche](#)

[Photon avalanche](#)



Professor

Rafał Wiglusz

BBRA - BIOMATERIALS FOR BIO-RELATED APPLICATIONS,
DIVISION OF BIOMEDICAL PHYSICO-CHEMISTRY

**INSTITUTE OF LOW TEMPERATURE AND
STRUCTURE RESEARCH, PAS**

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EXPERTISE

The laboratory is focused on the preparation of nanosized biomaterials, followed by the creation of periodically ordered nanostructures based on single nanoparticles. An important factor is the design and fabrication of nanocomponents with new functionalities and characteristics for improving existing materials: photonic and conductive materials, polymers and composites. The aim is to develop innovative products and applications in electronics and biomedicine based on nanoscale technology.

SEEKING FOR COLLABORATION WITHIN

biomaterials, tissue regeneration, cells proliferation, biopolymers, hydrogels, block copolymers

RELEVANT PROJECTS

[NCN funded project](#)

[NCN funded project](#)

[NCBR/POIR](#)

POWR



Professor

Szymon Jaroszewicz

STATISTICAL ANALYSIS AND MODELING GROUP

**INSTITUTE OF COMPUTER SCIENCE,
PAS**

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EXPERTISE

Our group is focused on statistical and machine learning methods, being particularly interested in causal discovery, from experimental and observational data, especially uplift modeling, heterogeneous treatment effect estimation, multi-label classification and positive-and-unlabeled data. We have also significant expertise in analysis of high-dimensional data, especially using information theoretical methods. We are also skilled in practical applications of machine learning and statistical methods.

SEEKING FOR COLLABORATION WITHIN

causal discovery, high dimensional data, positive-and-unlabeled classification, variable selection

RELEVANT PROJECTS

[SAI](#)

Uplift modeling in marketing and biomedical research.



Professor

Tadeusz Magiera

DEPARTMENT OF ENVIRONMENTAL MAGNETISM
AND RECLAMATION

**INSTITUTE OF ENVIRONMENTAL ENGINEERING,
PAS**

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EXPERTISE

This laboratory is focused on the development of “in situ” geophysical methods for precise location of soil contaminated areas. In particular, we are interested in this implementation of soil magnetometry following the ISO 21226:2019 methodology for fast and precise identification of contaminated areas, for the better land-use management of local and regional soil resources, and to build a relevant database available for policy-makers, citizens, and local investors.

SEEKING FOR COLLABORATION WITHIN

Soil Mission, Green Deal, soil management practice, Transition Challenge: Environmental Intelligence

RELEVANT PROJECTS

[IMPACT](#)



Professor

Joanna Kulczycka

DIVISION OF STRATEGIC RESEARCH

**MINERAL AND ENERGY ECONOMY RESEARCH
INSTITUTE, PAS**



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+48 605 333 363

EXPERTISE

Our division carries out research in the field of economics, together with eco-efficiency, environmental management, raw material and waste markets, an environmental technology and engineering, including social aspects. We have competences and knowledge in the field of market analysis for raw materials, waste management, recycling, environmental technologies and life cycle assessment, as well as the circular economy. We create environmental policies and indexes.

SEEKING FOR COLLABORATION WITHIN

circular economy, eco-efficiency and environmental impact assessment, minerals and waste management

RELEVANT PROJECTS

[Pheidias](#)

[BattValue](#)

[InPhos](#)



Widening



Widening

Widening Participation

Widening Participation and Spreading Excellence actions under Horizon Europe, contribute to building research and innovation capacity for countries lagging behind. They will strengthen their potential for successful participation in transnational research and innovation processes, promote networking and access to excellence.

Participants in the programme will be able to upgrade their research and innovation systems, making them stronger and allowing the EU as a whole to advance together, in line with the policy objectives of the [European Research Area](#).

Source: [REA](#)



PhD, DSc

Anna Ujwary-Gil

LABORATORY OF PROCESS AND NETWORK ANALYSIS

INSTITUTE OF ECONOMICS, PAS

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EXPERTISE

Our Laboratory is at the forefront of exploring how inter-organizational networks, digital innovation hubs, and ecosystems drive sustainability, digital transformation, and innovative business models in the digital era. We excel in utilizing advanced social network analysis techniques within the dynamic digital economy and sustainability landscape. Our research is dedicated to examining economic ecosystems such as industry clusters, innovation networks, and food cooperatives from network structure and relational perspectives.

SEEKING FOR COLLABORATION WITHIN

sustainability, digital transformation, digital innovation hubs, industry clusters, social network analysis, networks, business model

RELEVANT PROJECTS

[REINVENT](#)

[REV4.0](#)



PhD, DSc

Oskar Kowalewski

RESEARCH LABORATORY OF ADVANCED STUDIES

INSTITUTE OF ECONOMICS, PAS

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EXPERTISE

Our laboratory is focused on research in the field of finance, in particular in the fields of corporate governance, banking, and new technologies (fintech). In the last area, the subject of study is the impact of innovation on the activities of financial intermediaries. The research carried out by the team is also interdisciplinary in nature, combining elements of finance, in particular banking, with agro-economics, and analyzes of the impact of climate change on the financial sector.

SEEKING FOR COLLABORATION WITHIN

finance, corporate governance, fintech, climate finance, agro-economics

RELEVANT PROJECTS

[FINEXCA](#)

[Drought](#)



PhD

Tomasz Panecki

RESEARCH IN SPATIAL HISTORY,
HISTORICAL GEOGRAPHY & CARTOGRAPHY

INSTITUTE OF HISTORY, PAS

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EXPERTISE

Our Department specialises broadly-construed spatial history, historical geography & carto-graphy. Our expertise stems mainly from the series “Historical Atlas of Poland: Detailed Maps of the 16th Century”, which also provides a complete network of localities & administrative boundaries. Experience gained from working on this series will be useful in preparing similar datasets from subsequent timeframes. The data should be treated as a starting point for further research, e.g. on social, economic, political & cultural history.

SEEKING FOR COLLABORATION WITHIN

geography, history, history of cartography, historical cartography

RELEVANT PROJECTS

[AHP](#)



PhD
Maciej Maryl
DIGITAL HUMANITIES CENTRE

INSTITUTE OF LITERARY RESEARCH, PAS

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EXPERTISE

We have several PhD candidates and early-career researchers on our teams, keen to develop their academic careers and continue their involvement in international projects. We have diverse interests in the field of digital humanities: digital tools and methods in literary and cultural studies, corpus linguistics, digital editing, open scholarly communication (including innovations and social media), data, programming, user and stakeholder research. We are experienced in a variety of methods from desk research, through text analysis, to interviews, focus groups, and user testing.

SEEKING FOR COLLABORATION WITHIN

digital tools and methods, digital editing, open scholarly communication, UX and stakeholder research

RELEVANT PROJECTS

[SHAPE-ID](#)
[OBERRED](#)
[Dariah.Lab](#)
[NEP4DISSENT](#)



Professor
Anna Zielińska
DEPARTMENT OF LINGUISTICS

INSTITUTE OF SLAVIC STUDIES, PAS

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EXPERTISE

I conduct research in the fields of dialectology, sociolinguistics, multilingualism, language contacts, language borderlands. I am the PI of the Polish-German research project “Language across generations: contact induced change in morpho-syntax in German-Polish bilingual speech” (financed by the NCN and DFG). This project aims to create an integrated description of Polish-German bilingualism in Poland and Germany, covering both grammar and sociolinguistic issues.

SEEKING FOR COLLABORATION WITHIN

language contacts, multilingualism, studies of multilingual communities, linguistic biographies

RELEVANT PROJECTS

[LANGGENER](#)



PhD, DSc
Nicole Dołowy-Rybińska
DEPARTMENT OF LINGUISTICS

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EXPERTISE

Our research team works on minority and minoritized languages of Europe and their communities in a broad political, cultural, and linguistic context. We pursue anthropological and sociolinguistic research that touches upon such issues as language policies, language practices, shift and attitudes, language rights, and language maintenance and revitalization.

SEEKING FOR COLLABORATION WITHIN

sociolinguistics, multilingualism, minorities and borderlands, language revitalization

RELEVANT PROJECTS

[NCN/SonataBis](#)
[NCN/OPUS](#)
[SORBIAN](#)



PhD

Karolina Ćwiek-Rogalska

DEPARTMENT OF LITERARY AND CULTURAL STUDIES

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EXPERTISE

Our team is interested in the emergence of re-settlement cultures in post-displacement regions of Slavic Central Europe. The hypothesis we follow is that they are formed in contact with the materiality left behind by expellees. We work on Polish, Czech, and Slovak case studies, conducting fieldwork in selected regions as well as archival search queries in national and local archives.

SEEKING FOR COLLABORATION WITHIN

studies of material culture

RELEVANT PROJECTS

[SPECTRAL RECYCLING](#)



PhD, DSc

Grażyna Szwat-Gyłybowa

DEPARTMENT OF LITERARY AND CULTURAL STUDIES

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EXPERTISE

The research interests of our team focus on the issues of cultural change in the Balkan area, national and minority issues. In particular, we are interested in cultural transfers, the migration of ideas, topoi and myths, and non-obvious relations between centers of symbolic power. We direct attention to all layers of South Slavic cultures (from folklore, to popular culture, to artistic practices addressed to a narrow audience).

SEEKING FOR COLLABORATION WITHIN

cultural history of the Balkans, history of ideas, popular culture, culture transfer, memory studies

RELEVANT PROJECTS

[NCN/OPUS](#)



PhD

Anna Zawadzka

DEPARTMENT OF NATIONALITY STUDIES

INSTITUTE OF SLAVIC STUDIES, PAS

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EXPERTISE

My research fields are as follows: current historical politics in post-communist countries; the history of anticommunism in comparative perspectives; studies of antisemitism; synergy of antisemitism and anticommunism; the history, socio-political functions, and consequences of the “Jewish Bolshevism” stereotype; studies of the “Jewish Bolshevism” stereotype in an East-West comparative perspective; the social history of cold war era in Eastern and Central Europe; studies of prejudice.

SEEKING FOR COLLABORATION WITHIN

comparative studies of historical politics in Central and Eastern Europe

RELEVANT PROJECTS

[NCN funded project](#)

[The Center for Cultural and Literary Studies of Communis](#)



PhD

Jacek Łukasz Kolanowski

DEPARTMENT OF MOLECULAR PROBES AND PRODRUGS
& CENTRE FOR HIGH THROUGHPUT SCREENING STUDIES

INSTITUTE OF BIOORGANIC CHEMISTRY, PAS

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EXPERTISE

In our research group we design, develop and use fluorescent probes and assays for multiparametric imaging in live cells. In our core facility we offer (1) high throughput screening for identification of drug candidates (fluor. & biolum., biochemical and cell-based assays including high content imaging) (2), ultraresolution (<5 nm, MINFLUX) & superresolution fluorescent microscopy (STED, STED-FLIM) in live cells, (3) synthesis of chemical probes, natural compound analogues and hit optimization.

SEEKING FOR COLLABORATION WITHIN

chemical biology, fluorescent probes, multiplexing, imaging, HTS, protein labelling, core facility

RELEVANT PROJECTS

[EU-OPENSREEN-DRIVE](#)

[ISIDORe](#)

[AgroSERV](#)



Professor

Marek Figlerowicz

DEPARTMENT OF MOLECULAR AND SYSTEMS BIOLOGY

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PAS

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EXPERTISE

Our group focuses on cell engineering, particularly for the purposes of regeneration and interceptive medicine. We study factors shaping cell identities and states in the context of epigenetic rejuvenation, direct cell reprogramming, and intercellular communication via short- and long-distance RNA transport. We combine cutting-edge single-cell spatial multiomics, micro-patterned cell cultures, organoid models, and machine learning to model cell trajectories and control cell fate and functions.

SEEKING FOR COLLABORATION WITHIN

aging, cardiology, AI, epigenetics, transdifferentiation, RNA, extracellular vesicles, CRISPR, APOBEC

RELEVANT PROJECTS

[ECBiG-MOSAIC](#)

[NEB](#)

[LifeTime](#)

[LifeTime](#)





PhD, DSc
Anna Piliszek
DEPARTMENT OF EXPERIMENTAL EMBRYOLOGY

**INSTITUTE OF GENETICS AND ANIMAL
BIOTECHNOLOGY, PAS**

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+48 22 736 70 36



EXPERTISE

Our team is interested in the earliest stages of mammalian development. In particular, we are focused on the mechanisms of first lineage differentiation in mammalian embryos. Our studies include establishment and maintenance of pluripotency and extraembryonic lineage formation, as well as the influence of embryonic environment on cell differentiation and reprogramming. We use the mouse and rabbit as our main experimental models.

SEEKING FOR COLLABORATION WITHIN

pluripotency, extracellular matrices, mechanobiology, modeling of cellular processes in silico

RELEVANT PROJECTS

NCN/SONATA
NCN/SONATABIS



Professor
Leszek Kaczmarek
LABORATORY OF NEUROBIOLOGY

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PAS**

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EXPERTISE

Our research is focused on extracellularly operating matrix metalloproteinase, MMP-9, which is produced and released at the excitatory synapses in response to enhanced neuronal activity and plays a paramount role in the synaptic plasticity underlying learning and memory as well as such neuropsychiatric disorders as the development of epilepsy, alcohol addiction, schizophrenia, autism spectrum and bipolar disorder.

SEEKING FOR COLLABORATION WITHIN

synaptic plasticity, MMP-9, learning, memory, schizophrenia, autism, epilepsy

RELEVANT PROJECTS

[BRAINCITY](#)
[ECMED](#)
[EXTRABRAIN](#)



PhD, DSc
Grzegorz Sumara
DIOSCURI CENTER FOR METABOLIC DISEASES

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EXPERTISE

Our Laboratory seeks to elucidate the signaling pathways regulating basic metabolic processes in adipose tissue, intestine and liver as well as inter-organ cross-talk, perturbations of which often result in metabolic diseases. We combine cell biology, biochemical and -omics approaches with mouse genetics.

By determining essential signaling networks we aim to contribute to more targeted pharmacological strategies for the treatment of metabolic diseases such as obesity or type 2 diabetes (T2D).

SEEKING FOR COLLABORATION WITHIN

metabolism, obesity, diabetes, kinase signaling, ERK3, protein kinase D (PKD), lipolysis, ubiquitin

RELEVANT PROJECTS

[Dioscuri Grant](#)
[SiCMetabol](#)
[TR 240](#)



Professor

Mariusz Więckowski

LABORATORY OF MITOCHONDRIAL BIOLOGY
AND METABOLISM

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PAS**

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EXPERTISE

Research carried out in our Laboratory focuses on mitochondrial physiology and pathology.

We investigate mitochondrial dysfunction in several metabolic disorders, including the development and progression of nonalcoholic fatty liver disease (NALFD). We also study mitochondrial involvement in other disorders, including Neurodegeneration with Brain Iron Accumulation (NBIA) and ultra-rare genetic disease related to PACS2 gene mutation that leads to developmental and epileptic encephalopathy (DEEs).

SEEKING FOR COLLABORATION WITHIN

mitochondria, metabolism, oxidative stress, NBIA, Non-Alcoholic Fatty Liver Disease (NAFLD), PACS2

RELEVANT PROJECTS

[FOIE GRAS](#)

[mtFOIE GRAS](#)



PhD, DSc

Ewelina Knapska

LABORATORY OF EMOTIONS NEUROBIOLOGY

**NENCKI INSTITUTE OF EXPERIMENTAL BIOLOGY,
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EXPERTISE

Our research aims to understand the neural circuit mechanisms controlling social interaction and reward learning in health and disease. We focus on the amygdala and its functional connectivity with other brain structures, using neuroanatomical methods, opto- and chemogenetics, and recording neuronal activity. We have developed social communication, emotion discrimination, and reward learning behavioral protocols, including an automated system to track the behavior of mice in semi-naturalistic settings.

SEEKING FOR COLLABORATION WITHIN

autism/depression models, social behavior/reward processing in humans, ultrasound brain stimulation

RELEVANT PROJECTS

[BRAINCITY](#)

[CoSI](#)



PhD, DSc

Jan Zawala

INTERFACIAL INTERACTIONS IN DISPERSED SYSTEMS
RESEARCH TEAM

**INSTITUTE OF CATALYSIS AND SURFACE
CHEMISTRY, PAS**

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EXPERTISE

The laboratory is focused on fundamental studies on mechanisms underlying dispersed systems stability. In particular we are interested in initial stages of the dispersed systems formation where dynamic conditions are crucial for kinetics of formation of adsorption layers and properties of fluid and solid interfaces. We conduct work on hydrodynamics of bubbles and drops in surfactant solutions, stability of liquid films under dynamic conditions and kinetics of adsorption at various interfaces.

SEEKING FOR COLLABORATION WITHIN

bubbles and drops, fluid/fluid and fluid/solid interfaces, dispersed systems, foams and emulsions

RELEVANT PROJECTS

NCN/OPUS

NCN/SONATA-BIS



PhD, DSc

Krzysztof Szczepanowicz

NANOSTRUCTURES OF SOFT MATTER

INSTITUTE OF CATALYSIS AND SURFACE
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EXPERTISE

The research group “Soft Matter Nanostructures” under the leadership of associate professor Krzysztof Szczepanowicz at the ICSC PAS has extensive experience in the research in the field of surface chemistry and dispersed systems. Investigations are focused on adsorption phenomena, surfactants, mechanism of foam formation, nano- and colloidal particles interactions, thin films, encapsulation of active chemical compounds, nanostructured coatings in an application for biocompatible materials, and printed electronics.

SEEKING FOR COLLABORATION WITHIN

surfactants, foams, nanoparticles, thin films, encapsulation, drug delivery, nanocoatings, biomaterials

RELEVANT PROJECTS

[TheraforNerv](#)

[NanoPaint](#)



Professor

Szymon Jaroszewicz

STATISTICAL ANALYSIS AND MODELING GROUP

INSTITUTE OF COMPUTER SCIENCE,
PAS

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EXPERTISE

Our group is focused on statistical and machine learning methods, being particularly interested in causal discovery, from experimental and observational data, especially uplift modeling, heterogeneous treatment effect estimation, multi-label classification and positive-and-unlabeled data. We have also significant expertise in analysis of high-dimensional data, especially using information theoretical methods. We are also skilled in practical applications of machine learning and statistical methods.

SEEKING FOR COLLABORATION WITHIN

causal discovery, high dimensional data, positive-and-unlabeled classification, variable selection

RELEVANT PROJECTS

[SAI](#)

Uplift modeling in marketing and biomedical research.



Professor

Jolanta Łukasiewicz

LABORATORY OF MICROBIAL IMMUNOCHEMISTRY
AND VACCINES

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AND EXPERIMENTAL THERAPY, PAS

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EXPERTISE

Structural analysis of bacterial glycolipids (LPS, CPS, EPS, ECA) – structure and biological activity relationships (immunogenicity, toxicity, immune system activation, vaccine development). Major achievements: design of LPS-based vaccines (pertussis, nosocomial infections); identification of the covalent linkage between ECA and LPS, sepsis-relevant interactions between human complement and LPS, and structural modifications determining the diversity of K.pneumoniae O-antigens key for prophylaxis and therapy of MDR.

SEEKING FOR COLLABORATION WITHIN

epidemiology, vaccine, monoclonal antibody, genetics, sepsis, MDR, drug resistance, lipopolysaccharide

RELEVANT PROJECTS

[KLEBSICURE](#)

[NCN/OPUS16](#)

PAN

Brussels
Polish Science Contact Agency
Polish Academy of Sciences

