

PAS Institutes



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DIVISION I

Humanities and Social Sciences



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 funded 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-Mojsa

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 | Cluster 2 | Cluster 6 | EIC/EIT | 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](#).

FEATURED TEAM LEADERS



PhD
Bogumił Szady
MODELLING SPATIAL KNOWLEDGE



PhD
Adam Zapała
DIGITAL INFRASTRUCTURE FOR HUMANITIES



PhD
Wiesława Duży
MODELLING SPATIAL KNOWLEDGE



PhD
Tomasz Panecki
RESEARCH IN SPATIAL HISTORY,
HISTORICAL GEOGRAPHY & CARTOGRAPHY



Institute of Literary Research, PAS

WARSAW



KEY RESEARCH DOMAINS

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

ABOUT THE INSTITUTE

The Institute, established in 1948, is a highly recognized center for literary and cultural studies in Poland. It carries out interdisciplinary research on literary and cultural phenomena and specializes in long-term projects in literary history and theory, literary documentation, bibliography, lexicography, and scholarly editions. The Institute is committed to developing research infrastructure, advancing interdisciplinary approaches in the humanities, and promoting open science.

INTEREST IN HORIZON EUROPE

MSCA instruments | Research Infrastructures | Cluster 2 | Widening instruments

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

Although the Institute's primary research profile is rooted in Polish literature and culture, it is equally distinguished for its extensive international engagement across the broadly defined humanities. We maintain long-standing collaborations with academic institutions and individual scholars in Poland and abroad, including partners outside Europe (e.g., in the United States and China). The Institute is also widely recognized for its publishing activity, which encompasses leading humanities journals, several of them issued in English. In recent years, the Institute – primarily through its Digital Humanities Centre – has secured more than twenty grants from major European funding schemes, including Horizon Europe, Horizon 2020, COST, and Erasmus+.

FEATURED TEAM LEADERS



Professor
Paweł Mościcki

DEPARTMENT OF THE ANTHOPOLOGY OF THE PRESENT



PhD
Maciej Maryl

DIGITAL HUMANITIES CENTRE



Professor
Magdalena Rembowska-Płuciennik

DEPARTMENT OF HISTORICAL POETICS



Professor
Agnieszka Mroziak

INTERDISCIPLINARY RESEARCH GROUP "PRL AND THE GLOBAL SOUTH"



Professor
Monika Rudaś-Grodzka

WOMENS ARCHIVE WORKING GROUP



Professor
Agata Roćko

LITERATURE AND GLOTTODIDACTICS GROUP



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: Interdisciplinary 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

Funded 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



PhD
Marta Kołczyńska

DEPARTMENT OF RESEARCH ON SOCIAL AND INSTITUTIONAL TRANSFORMATIONS



Professor
Ireneusz Sadowski

DEPARTMENT OF RESEARCH ON SOCIAL AND INSTITUTIONAL TRANSFORMATIONS



Professor
Agnieszka Cianciara

DEPARTMENT OF INTERNATIONAL ORGANIZATIONS AND GLOBAL SECURITY STUDIES



Professor
Piotr Osęka

DEPARTMENT OF RECENT POLITICAL HISTORY



Professor
Monika Sus

DEPARTMENT OF INTERNATIONAL ORGANIZATIONS AND GLOBAL SECURITY STUDIES



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, Polonez Bis 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
Ewa Wróblewska-Trochimiuk
DEPARTMENT OF LITERARY AND CULTURAL
STUDIES



PhD
Anna Zawadzka
DEPARTMENT OF NATIONALITY STUDIES



PhD, DSc
Karolina Bielienin-Lenczowska
DEPARTMENT OF NATIONALITY STUDIES



DIVISION II

Biological and Agricultural Sciences



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

CONTACT

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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



The Franciszek Górski Institute of Plant Physiology, PAS

KRAKÓW



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

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FEATURED ACHIEVEMENTS & FACILITIES

In recent years a number of national and international re- search 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 triticale embryogenesis, and an OPUS (NCN) project focusing on the role of cell wall phenols in drought stress in triticale. 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 Agrophysics, PAS

LUBLIN



KEY RESEARCH DOMAINS

agriculture, climate, soil, plant, plant raw material, soil microorganisms, plant microorganisms, atmosphere, greenhouse gases

ABOUT THE INSTITUTE

The mission of the Institute is to carry out research for the sustainable production of agricultural plant raw materials in order to ensure food security and mitigate adverse environmental and climate changes.

Objects of study: soils, plants and plant raw materials of agricultural origin, soil and plant microorganisms, the atmosphere and GHGs.

Aims: to ensure proper conditions for the cultivation of agricultural plants, to ensure high quality food of plant origin, to mitigate the effects of climate change.

INTEREST IN HORIZON EUROPE

MSCA instruments | Cluster 5 | Cluster 6 | Widening instruments

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

The IA PAS has modern infrastructure for R&D located in 5 Departments (Department of Metrology and Modelling of Agrophysical Processes, Department of Physical Chemistry of Porous Materials, Department of Natural Environment Biogeochemistry, Department of Soil and Plant System, Department of Microstructure and Mechanics of Biomaterials) and 3 independent laboratories (Laboratory of Assessment of the Grain Raw Materials Quality, Laboratory of Granular Materials, Laboratory of Microalgal Biotechnology).

People: a staff of approximately 120, including approximately 60 researchers (physicists, chemists, biologists, biotechnologists); 2 Doctoral Schools in agriculture and horticulture, with around 20 PhD students. Holder of the “HR Excellence in Research” logo.

FEATURED TEAM LEADERS



DSc, Associate Professor
Krzysztof Lamorski
DEPARTMENT OF METROLOGY AND
MODELLING OF AGROPHYSICAL PROCESSES



Professor, DSc
Magdalena Frąć
DEPARTMENT OF SOIL AND PLANT SYSTEM



PhD, DSc, Associate Professor
Katarzyna Szewczuk-Karpisz
DEPARTMENT OF PHYSICAL CHEMISTRY OF
POROUS MATERIALS



Professor, DSc
Artur Zdunek
DEPARTMENT OF MICROSTRUCTURE
AND MECHANICS OF BIOMATERIALS



PhD, DSc
Anna Walkiewicz
DEPARTMENT OF NATURAL ENVIRONMENT
BIOGEOCHEMISTRY



Professor, DSc
Agnieszka Nawrocka
LABORATORY OF ASSESSMENT
OF THE GRAIN RAW MATERIALS QUALITY



InLife - Institute of Animal Reproduction and Food Research, PAS



OLSZTYN

KEY RESEARCH DOMAINS

food technology and nutrition, biotechnology & reproductive biotechnology, nutrition-health interactions, diagnostic tools, biodiversity, environmental impact

ABOUT THE INSTITUTE

Our mission is to advance knowledge and create innovative solutions in the areas of food, health, and reproduction for the benefit of people, animals, and the environment. By combining interdisciplinary research with active engagement with the society, we confront global challenges, promote well-being, and support sustainable development. Emerging from the fusion of animal reproduction research and food science, InLife has evolved into a unique centre of interdisciplinary exploration, uniting more than 20 scientific teams.

INTEREST IN HORIZON EUROPE

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

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

Holding the status of a Leading National Science Centre and the highest “A+” category awarded by the Polish Ministry of Education and Science in food and nutrition technology, the Institute advances interdisciplinary research focused on innovative solutions in food, health, and reproduction. It is an active member of European networks such as EIT Food and the FutureFoodS Partnership, which work to build sustainable and healthy food systems through transformative innovation. Our specialist laboratories provide a collaborative space for researchers and partners from academia, industry, and the public sector. The Institute also operates an Interdisciplinary Doctoral School and holds the “HR Excellence in Research” award.

FEATURED TEAM LEADERS



Professor
Marek Strączkowski
PROPHYLAXIS OF METABOLIC DISEASES TEAM



Professor
Iwona Grabowska
BIOELECTROANALYTICS TEAM



Professor
Izabela Wocławek-Potockai
EMBRYO BIOLOGY TEAM



PhD, DSc
Joanna Wiśniewska
REGENERATIVE BIOLOGY TEAM



Professor
Adam Jurgoński
BIOLOGICAL FUNCTION OF FOOD TEAM



Professor
Radosław Kowalski
AQUATIC ORGANISM REPRODUCTIVE BIOTECHNOLOGY TEAM



Institute of Biochemistry and Biophysics, PAS

WARSAW



KEY RESEARCH DOMAINS

bioinformatics, biological chemistry, medical biology, microbiology, mitochondria, plant and seed biology, polar studies, multi-omics, rare diseases, structural modelling, transcription, translation

ABOUT THE INSTITUTE

The Institute is a leading Polish research institution in the life sciences. It conducts fundamental research in biophysics, biochemistry and related disciplines, aiming to translate discoveries into industrial and medical applications. The Institute also manages the Polish Henryk Arctowski Antarctic Station, located on King George Island off the coast of Antarctica. The Institute offers graduate training and awards doctoral degrees in biological and chemical sciences.

INTEREST IN HORIZON EUROPE

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

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

The expertise of our teams spans multiple levels of biological organization: molecular (proteins, nucleic acids, enzymes), organellar (mitochondria, peroxisomes, membranes), cellular (bacterial and eukaryotic cultures), and whole organisms (yeast, nematodes, plants). We offer extensive capabilities for large-scale analysis of genomes, transcriptomes, metabolomes, proteomes, and lipidomes. Many biological problems are co-addressed by both empirical and in silico approaches, with access to cutting edge experimental equipment and numerous licensed software tools. The Institute's facilities, including the Mass Spectrometry Facility and the DNA Sequencing and Synthesis Facility, provide vital research and consulting services, both internally and externally.

FEATURED TEAM LEADERS



PhD, Assistant Professor
Robert Bialik
DEPARTMENT OF ANTARCTIC BIOLOGY



PhD, Assistant Professor
Szymon Swiezewski
LABORATORY OF SEEDS MOLECULAR BIOLOGY



Professor
Roza Kucharczyk
LABORATORY OF BIOENERGETICS AND MITOCHONDRIAL DISEASE MECHANISMS



PhD, Assistant Professor
Roman Szczesny
LABORATORY OF RNA BIOLOGY



PhD, Assistant Professor
Agata Starosta
LABORATORY OF TRANSLATOMICS



PhD, Assistant Professor
Kevin Waldron
LABORATORY OF METALLOPROTEIN BIOLOGY



Institute of Bioorganic Chemistry, PAS

POZNAŃ



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 Dendrology, PAS

KÓRNIK



KEY RESEARCH DOMAINS

forest ecology, biodiversity, climate change, tree and shrub biology, species distribution, invasive species, carbon storage, mycorrhiza, plant-fungi-insect interactions, genetics, *in vitro* cultures

ABOUT THE INSTITUTE

The Institute is a scientific institution dedicated to interdisciplinary research on the biology and ecology of woody plants. Our work encompasses forest and biological sciences, focusing on biogeography and systematics, developmental biology, ecology, genetics and environmental interactions, and symbiotic associations. We manage the Kórnik Arboretum (with ~3,000 taxa), an Herbarium, and an Experimental Forest (covering ~220 ha). We publish the international journal “Dendrobiology”.

INTEREST IN HORIZON EUROPE

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

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

Since its establishment in 1933, the Institute has been engaged in numerous national and international research projects. Our research agenda spans several critical areas, including tree physiology and ecophysiology, long term storage of genetic resources, seed biology, seed dormancy, cryopreservation, genetic diversity, *in vitro* cultures, adaptation mechanisms, biodiversity conservation, biological invasions, as well as modelling of geographic ranges, forest ecosystem dynamics, and carbon storage so as to better understand the impact of environmental change on forest ecosystems. The institute boasts very well-equipped laboratories. It has the right to confer doctorate (PhD) and *habilitation* (DSc) degrees in the fields of forest sciences and biological sciences.

FEATURED TEAM LEADERS



PhD
Marcin Pietras
DEPARTMENT OF BIOGEOGRAPHY AND SYSTEMATICS



PhD
Emilia Pers-Kamczyc
DEPARTMENT OF GENETICS AND ENVIRONMENTAL INTERACTIONS



PhD
Ewelina Ratajczak
DEPARTMENT OF DEVELOPMENTAL BIOLOGY



PhD
Tomasz Leski
DEPARTMENT OF SYMBIOTIC ASSOCIATIONS



Professor
Andrzej M. Jagodziński
DEPARTMENT OF ECOLOGY



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 5 | Cluster 6 | Widening instruments | EIC / EIT

CONTACT

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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
Jaroslaw 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 Zelent
DEPARTMENT OF MOLECULAR BIOLOGY



Institute of Nature Conservation, PAS

KRAKÓW



KEY RESEARCH DOMAINS

nature conservation, ecology, conservation biology, geology, invasive species, climate change, social aspects of nature conservation, biodiversity, wildlife, freshwater biology, applied ecology

ABOUT THE INSTITUTE

The Institute's main task is to develop solid scientific foundations for modern nature conservation and environmental protection. It conducts research in ecology, conservation biology, and geology, and is characterized by a comprehensive approach and multifaceted research, taking into account different perspectives and different organizational levels.

INTEREST IN HORIZON EUROPE

MSCA instruments | Research Infrastructures | Cluster 6 | Widening instruments

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

The Institute actively participates in numerous national and international projects, such as Horizon Europe (in consortium), LIFE, COST, Biodiversa, and EOG. Research results are published in international journals such as Nature and Science. The Institute has five departments (Biodiversity, Ecosystem Conservation, Geoconservation, Wildlife Conservation, Freshwater Biology) and a number of specialized research teams (e.g. Biological Invasions or Biological Consequences of Climate Change). It has approximately 50 scientists on staff. Facilities include the Institute's own mountain research station, with a seed bank and a botanical garden of mountain plants. The Institute collaborates with other national and international scientific institutions, national parks, government agencies and industry.

FEATURED TEAM LEADERS



PhD
Aleksandra Biedrzycka
DEPARTMENT OF WILDLIFE CONSERVATION



PhD
Wojciech Solarz
RESEARCH TEAM - BIOLOGICAL INVASIONS



PhD
Magdalena Lenda
ECOLOGY OF AGRICULTURAL LANDSCAPE AND FOOD PRODUCTION



PhD
Szymon Śniegula
DEPARTMENT OF ECOSYSTEM CONSERVATION



PhD
Agnieszka Bednarska
DEPARTMENT OF BIODIVERSITY



PhD
Maciej Liro
LABORATORY OF MACROPLASTIC POLLUTION/
DEPARTMENT OF GEOCONSERVATION



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

Wojciech Majewski
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) Laboratory of Cathodoluminescence Microscopy (hot cathode),
- (2) Laboratory of Microtomography (Zeiss XRadia MicroXCT-200),
- (3) 3D Laboratory,
- (4) 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



Institute of Systematics and Evolution of Animals, PAS

KRAKÓW



KEY RESEARCH DOMAINS

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

ABOUT THE INSTITUTE

The ISEA PAS carries out a wide range of research on the evolution and biodiversity of the animal world, including taxonomy, phylogenetics, cytogenetics, palaeontology, biogeography and ecology. Our scientists conduct innovative studies that contribute to national and international understanding of animal diversity. The Institute also curates one of the largest and most valuable natural history collections in Poland, providing an essential resource for research, education and public outreach.

INTEREST IN HORIZON EUROPE

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

CONTACT

Beata Grzywacz

PhD, Director of the Institute

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FEATURED ACHIEVEMENTS & FACILITIES

The Institute conducts national and international research projects, including a European Research Council Consolidator Grant. Its researchers publish in leading journals such as Nature and Nature Communications. The Institute also holds the HR Excellence in Research award. The Institute's Scientific Zoological Collection is one of the largest and most diverse in Poland and a key European resource, containing around 2.5 million fossil and recent specimens, including a unique set of living *Paramecium taxa*. The ISEA PAS Laboratory of Molecular Techniques provides advanced analyses, including Sanger sequencing and next-generation library preparation for both contemporary specimens and ancient DNA. The Institute maintains extensive international collaborations.

FEATURED TEAM LEADERS



Professor

Łukasz Kajtoch

DEPARTMENT OF MOLECULAR BIODIVERSITY



PhD

Jarosław Wilczyński

DEPARTMENT OF VERTEBRATE ZOOLOGY



PhD

Dawid Moroń

DEPARTMENT OF ECOLOGY



Institute of Rural and Agricultural Development, PAS

WARSAW

IRWIR PAN

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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Director for Scientific Affairs



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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

Anna Rosa

RESEARCH TEAM ON REGENERATIVE AGRICULTURE



PhD, DSc

Katarzyna Zawalińska

LABORATORY OF ECONOMIC MODELLING



PhD, DSc

Paweł Chmieliński

LABORATORY ON SUSTAINABLE EUROPEAN FOOD SYSTEMS



Mammal Research Institute, PAS

BIAŁOWIEŻA



Mammal Research Institute
Polish Academy of Sciences
Białowieża

KEY RESEARCH DOMAINS

biodiversity, ecology of mammals, conservation biology, applied ecology, environmental disturbances, human impact, conservation policies

ABOUT THE INSTITUTE

The Institute is a pioneering institution in zoological research, specializing in various aspects of mammalogy, including mammal morphology, taxonomy, systematics, evolution, genetics, ethology, and ecology. With over 70 years of expertise, it combines traditional scientific approaches with modern techniques to study environmental shifts, local adaptations, and global processes shaping mammalian biology. The Institute's mission is to advance the understanding of mammalian science, contributing significantly to this dynamic field.

INTEREST IN HORIZON EUROPE

MSCA instruments | Research Infrastructures | Cluster 6 |
Widening instruments

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

The Institute is equipped with state-of-the-art research infrastructure, including a microtomograph, a 3D scanner, a high-capacity central computing system, and fully equipped biochemistry and ecophysiology laboratories. Facilities for animal husbandry are available under controlled conditions. The Institute also boasts a significant zoological collection, with over 200,000 specimens of skulls and skeletal fragments, making it one of Europe's largest. Field research is enhanced by the Trapper system, which uses AI to store and analyse data from camera traps.

FEATURED TEAM LEADERS



PhD, DSc
Magdalena Niedziałkowska
MOLECULAR BIOGEOGRAPHY TEAM



PhD, DSc
Dries Kuijper
KUIJPER'S LAB



PhD, DSc
Michał Żmihorski
ŻMIHORSKI'S LAB



Nencki Institute of Experimental Biology, PAS

WARSAW



KEY RESEARCH DOMAINS

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

ABOUT THE INSTITUTE

The Nencki Institute ranks among the leading biological centers in Europe. The Institute implements its mission through three strategic pillars: conducting top-quality scientific research, transferring bio-medical knowledge and technology, and educating future leaders in science. 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. The Institute develops world-class expertise and innovative technologies.

INTEREST IN HORIZON EUROPE

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

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

State-of-the-art core facilities at the Nencki Institute support scientific research and provide a wide range of expertise, including DNA sequencing - NGS, behavioral testing, cytometry, viral vector production, bioinformatics, preclinical testing and biological 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 cooperation with research entities from 21 countries and we participate in numerous scientific consortia and research networks. Current and former EU grants include 3 ERC StGs, 15 MSCA grants including an ongoing DN, a coordinated MISSION CANCER, a HOP-ON and a HLTH-STAYHLTH.

FEATURED TEAM LEADERS



PhD
Adam Kłósin
LABORATORY OF SPATIAL EPIGENETICS



Professor
Ewelina Knapska
LABORATORY OF EMOTIONS NEUROBIOLOGY



PhD, DSc
Katarzyna Leszczyńska
LABORATORY OF TUMOUR OF HYPOXIA AND EPIGENOMICS



PhD, DSc, Assoc. Prof.
Tomasz Wypych
LABORATORY OF HOST-MICROBIOME INTERACTIONS



PhD, Assoc. Prof.
Aleksandra Pękowska
DIOSCURI CENTER FOR CHROMATIN BIOLOGY AND EPIGENOMICS



PhD, DSc, Assoc. Prof.
Grzegorz Sumara
DIOSCURI CENTER FOR METABOLIC DISEASES



W. Szafer Institute of Botany, PAS

KRAKÓW



KEY RESEARCH DOMAINS

botany, bryology, phycology, mycology, lichenology, paleo- and archaeobotany, ecology, systematics, taxonomy, biogeography, genomics, phylogenetics, eco-physiology, metabolomics, pharmacognosy

ABOUT THE INSTITUTE

The Institute is a leading institution in botanical research, with over 70 years of history. It studies the evolution and biological diversity of organisms traditionally classified as plants and fungi, as well as their interactions with their environments. Research ranges from molecular studies to ecosystem dynamics, and the Institute is renowned for its contributions to botanical disciplines through the use of modern molecular techniques.

INTEREST IN HORIZON EUROPE

MSCA instruments | Research Infrastructures | Cluster 2 | Cluster 6 | Widening instruments

CONTACT

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Professor, Director

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FEATURED ACHIEVEMENTS & FACILITIES

With a staff of 45 researchers, the Institute merges modern scientific inquiry with traditional botanical disciplines, resulting in significant publications and successful grant projects. It hosts Poland's largest herbarium collection (with 1.6 million items), which is being digitized for accessibility. The Institute's facilities include laboratories for Environmental Genomics, Microbiology, Ecochemistry, and Palaeobotany. Additionally, it coordinates the Doctoral School of Nature and Agriculture Sciences. The Institute is also developing the unique CouTech platform, designed to enable comprehensive environmental and laboratory screening of diverse technological and biologically relevant organisms.

FEATURED TEAM LEADERS



PhD
Magdalena Moskal-del Hoyo
PALAEOBOTANY AND PALAEOENVIRONMENT GROUP



PhD
Michał Adamski
FUNCTIONAL AND EVOLUTIONARY ECOLOGY GROUP



PhD
Adam Flakus
BIODIVERSITY AND EVOLUTION GROUP



PhD
Magdalena Szechyńska-Hebda
PLANT BIOLOGY GROUP



PhD
Małgorzata Stanek
LABORATORY OF ECOCHEMISTRY AND ENVIRONMENTAL ENGINEERING



PhD
Paweł Kapusta
FUNCTIONAL AND EVOLUTIONARY ECOLOGY GROUP



DIVISION III

Mathematics, Physics, Chemistry and
Earth Sciences



Centre of Molecular and Macromolecular Studies, PAS

ŁÓDŹ



KEY RESEARCH DOMAINS

organic chemistry, polymers, structural chemistry, structural characterization (NMR, X-Ray, MS), surface characterization (AFM, XPS, SEM, TEM), screening laboratory, DNA/RNA synthesis, cell culture

ABOUT THE INSTITUTE

The Centre is an interdisciplinary scientific institute specializing in organic chemistry, bioorganic chemistry, polymer chemistry, and polymer physics, with a special emphasis on developing methods of making advanced materials in both the low molecular weight and high molecular weight domains. It has an “A” category rating in chemistry and holds the “HR Excellence in Research” distinction. Currently it employs 172 individuals, including 73 researchers.

INTEREST IN HORIZON EUROPE

MSCA instruments | Research Infrastructures | Cluster 1 |
Cluster 4 | Widening instruments

CONTACT

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Director's Representative
for Commercialization

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FEATURED ACHIEVEMENTS & FACILITIES

The Centre comprises 5 research divisions. In view of its multi-disciplinary approach, it maintains a variety of highly specialized laboratories (in chemistry, polymer preparation and physics analysis, biology, and biochemistry). Our infrastructure includes equipment for physicochemical methods (e.g. NMR, Mass, FT-IR spectrophotometers, diffractometers, a gas chromatograph, a flow cytometer, microscopes) and for molecular biology and biochemistry. Our scientists are engaged in research projects financed by various funding agencies. The Centre is the leader of the MAGREZ platform – one of strategic infrastructures for scientific and economic development in Poland.

FEATURED TEAM LEADERS



PhD, DSc
Marek Brzeziński
REACTIVE AND SUPRAMOLECULAR
POLYMERS GROUP



PhD, DSc
Monika Gosecka
CROSS-LINKED MATERIALS TEAM



PhD
Wojciech Cypryk
LABORATORY OF MOLECULAR MEDICINE



PhD, DSc
Artur Rózański
PHYSICAL PROPERTIES OF CRYSTALLIZING
POLYMERS GROUP



PhD, DSc
Marta Dudek
CRYSTAL CHEMISTRY AND ENGINEERING
TEAM



PhD, DSc
Iurii Vozniak
GROUP OF LIGHT AND STRONG POLYMER
MATERIALS



Centre of Polymer and Carbon Materials, PAS

ZABRZE



KEY RESEARCH DOMAINS

stimuli-responsive polymers, biomaterials, nanostructures, carbon materials, hybrid composites, drug delivery system, light-sensitive materials, solar cells, photovoltaic

ABOUT THE INSTITUTE

The Centre conducts interdisciplinary research on advanced polymer, carbon, and polymer-carbon materials. These materials find applications in healthcare, environmental protection, biotechnology, and nanotechnology. With a team of 60 scientists, the Centre publishes more than 100 high-impact papers annually, often in collaboration with national and foreign centres. The Centre is also authorized to award doctoral degrees in chemical sciences and holds the “HR Excellence in Research” distinction.

INTEREST IN HORIZON EUROPE

MSCA instruments | Research Infrastructures | Cluster 1 | Cluster 4 | Widening instruments

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

Research at the Centre is conducted across 6 laboratories, focusing on the development of new polymer materials, including biocompatible nanostructures for bioapplications, environmentally friendly plastics, polymer-carbon composites, and new materials for optoelectronics. Additionally, research deals with thin-layer deposition technologies and the synthesis of graphene and porous carbon materials as precursors for eco-friendly materials. The Centre’s research capabilities support comprehensive, interdisciplinary studies with an emphasis on practical applications. Notable achievements include developing biodegradable non-woven dressings and next-generation biodegradable vascular stents using the micro-injection method.

FEATURED TEAM LEADERS



PhD, DSc
Agnieszka Kowalczyk
LABORATORY OF NANO- AND MICROSTRUCTURAL MATERIALS



PhD, DSc
Sławomira Pusz
MICROSCOPY LABORATORY



Professor
Grażyna Adamus
LABORATORY OF BIODEGRADABLE MATERIALS



Professor
Ewa Schab-Balcerzak
LABORATORY OF ENGINEERING FUNCTIONAL MATERIALS



PhD, DSc
Urszula Szeluga
LABORATORY OF CARBON AND POLYMER-CARBON MATERIALS



Institute of Catalysis and Surface Chemistry, PAS

KRAKÓW



KEY RESEARCH DOMAINS

catalytic and interface processes for industry and environment protection, biotechnology, biosynthesis, synthesis of nanomaterials, 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
Łukasz Bratasz

CULTURAL HERITAGE RESEARCH GROUP



Institute of Geological Sciences, PAS

WARSAW



KEY RESEARCH DOMAINS

tectonics, structural geology, basin analysis, sedimentology, petrology, planetary geology, isotope geochemistry, geochronology, clay mineralogy, paleoclimatology, paleobiology, environmental research

ABOUT THE INSTITUTE

The Institute brings together passionate scientists dedicated to innovative research in the Earth and environmental sciences. We are committed to understanding the structure and evolution of the lithosphere and its impact on the environment. Our main goal is to support the sustainable development of modern society and contribute to solving global challenges. We envision a world where trust between scientists and society fosters a resilient environment in which everyone can develop and thrive.

INTEREST IN HORIZON EUROPE

Research Infrastructures | Cluster 5 | Cluster 6 | Widening instruments

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

The Institute is engaged in nearly 60 domestic and foreign research projects, including over 40 financed by the National Science Centre. We publish approximately 100 papers annually in high-impact scientific journals. Our research groups have an extensive network of international cooperation and a strong reputation within the scientific community. The Institute's largest laboratories are: 1. the Geochronology and Isotope Geochemistry Labs, equipped with ultra-clean chemistry setups, mass spectrometers, and laser ablation technology; 2. the Stable Isotope Lab, featuring mass spectrometers and automated extraction lines; 3. the Clay Minerals Lab, using X-ray diffractometry, noble gas spectrometry, thermogravimetry combined with infrared spectroscopy, and low-/high pressure gas adsorption units.

FEATURED TEAM LEADERS



Professor
Stanisław Mazur
DEPOSITIONAL SYSTEMS RESEARCH GROUP



Professor
Arkadiusz Derkowski
CLAY MINERALS RESEARCH GROUP



PhD, Assoc. Prof.
Piotr Krzywiec
SEISMIC INTERPRETATION AND BASIN ANALYSIS RESEARCH GROUP (SEISSD)



Assoc. Prof.
Edyta Zawisza
ENVIRONMENTAL CHANGE - CLIMATE AND HUMAN (PALEO)



Professor
Anna Wysocka
DEPOSITIONAL SYSTEMS RESEARCH GROUP



Professor
Jarosław Tyszka
BIOGEOSYSTEM MODELLING GROUP



Institute of Geophysics, PAS

WARSAW



KEY RESEARCH DOMAINS

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

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 | Cluster 6

CONTACT

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Deputy Research Director

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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.

FEATURED TEAM LEADERS



Professor
Beata Orlecka-Sikora
DEPARTMENT OF SEISMOLOGY



Assoc. Prof.
Krzysztof Mizerski
DEPARTMENT OF MAGNETISM



Assoc. Prof.
Aleksander Pietruczuk
DEPARTMENT OF ATMOSPHERIC PHYSICS



Professor
Mariusz Majdański
DEPARTMENT OF SEISMIC RESEARCH



Professor
Marzena Osuch
DEPARTMENT OF HYDROLOGY AND
HYDRODYNAMICS



Assoc. Prof.
Mateusz Moskalik
DEPARTMENT OF POLAR AND MARINE
RESEARCH



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

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

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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.

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 Wiglus
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 Piskożub
PHYSICAL OCEANOGRAPHY DEPARTMENT



Professor
Artur Burzyński
GENETICS & MARINE BIOTECHNOLOGY
DEPARTMENT



Professor
Maria Włodarska-Kowalczyk
MARINE ECOLOGY DEPARTMENT



Professor
Marek Zajączkowski
DEPARTMENT OF PALEOCEANOGRAPHY



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 has made significant contributions to diverse fields, including photovoltaic cells, pure materials technology, markers for diagnostics and cancer therapy, electronics, optoelectronics. Dozens of research teams specialize in experimental research, such as the synthesis and characterization of nanostructures, as well as theoretical studies. We host the International Centre for Interfacing Magnetism and Superconductivity with Topological Matter, the MSCA Cofund project QNBTECHPOLE, and the most extensive MBE facilities in the region.

INTEREST IN HORIZON EUROPE

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

CONTACT

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Representative for R&D funding

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FEATURED ACHIEVEMENTS & FACILITIES

The Institute hosted ERC StG (microCODE) and established the ERA Chair (H2020, CREATE) which later evolved into the International Centre for Translational Eye Research (ICTER), developing hi-tech solutions to diagnose and treat eye diseases. Prestigious Teaming for Excellence (HE) funding further enabled ICTER's growth into the Translational Research and Innovation in Ophthalmology Vision – Centre of Excellence, advancing its mission in cutting-edge ophthalmic technologies. We are also part of the Virtual Research Institute, conducting research under “Horizon for Excellence in messenger RNA applications in immunOncology” (EUR 15M) and coordinating MSCA Cofund projects – two completed (NaMeS, PD2PI) and one ongoing (BS4S).

FEATURED TEAM LEADERS



PhD, DSc
Agnieszka Michota-Kamińska
PLASMONIC NANOSTRUCTURES FOR
BIOSPECTROSCOPIC ANALYSES



Professor
Maciej Wojtkowski
INTERNATIONAL CENTRE FOR
TRANSLATIONAL EYE RESEARCH



Professor
Marcin Drąg
CHEMICAL BIOLOGY CENTRE



Professor
Robert Hołyst
SOFT CONDENSED MATTER GROUP



Professor
Janusz Lewiński
COORDINATION METAL COMPLEXES AND
FUNCTIONAL MATERIALS



Professor
Joanna Niedziółka-Jönsson
SURFACE NANOENGINEERING GROUP



Institute of Physics, PAS

WARSAW



KEY RESEARCH DOMAINS

nanostructures, new materials, quantum technologies, superconductivity, magnetism, phase transitions, catalysis, optical spectroscopy, photovoltaics, biological markers, fluid dynamics, biomolecules

ABOUT THE INSTITUTE

The Institute has made significant contributions to diverse fields, including photovoltaic cells, pure materials technology, markers for diagnostics and cancer therapy, electronics, optoelectronics. Dozens of research teams specialize in experimental research, such as the synthesis and characterization of nanostructures, as well as theoretical studies (biophysics, quantum systems, and more). We host the International Centre for Interfacing Magnetism and Superconductivity with Topological Matter and the MSCA Cofund project QNBTechPole.

INTEREST IN HORIZON EUROPE

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

CONTACT

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Centre

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FEATURED ACHIEVEMENTS & FACILITIES

The Institute has made significant contributions to diverse fields, including photovoltaic cells, pure materials technology, markers for diagnostics and cancer therapy, electronics, optoelectronics and topology. It has dozens of research teams specializing in experimental approaches, such as the synthesis and characterization of nanostructures) as well as theoretical studies (including biophysics and quantum systems). With an “A” category excellence rating, the Institute has the right to confer doctorate (PhD) and higher doctorate (DSc / habilitation) degrees in the field of physics.

FEATURED TEAM LEADERS



PhD, DSc
Marcin Klepka
LABORATORY OF X-RAY AND ELECTRON
MICROSCOPY RESEARCH



PhD, DSc
Emilia Witkowska
THEORETICAL PHYSICS



PhD, DSc
Bożena Sikora-Dobrowolska
LABORATORY OF BIOLOGICAL PHYSICS



Professor
Bartłomiej Witkowski
GROUP OF PHYSICS OF OXIDE STRUCTURES



PhD
Michał Szot
DEVICE EPITAXY GROUP/INFRARED OPTICS
AND PHOTONICS LABORATORY



Professor
Yaroslav Zhydachevskyy
GROUP OF HIGH-PRESSURE SPECTROSCOPY



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. The Institute is authorized to award doctoral and postdoctoral degrees in chemical sciences. Currently, research is being conducted by 169 scientists, including 52 PhD students.

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, ranked no. 1 in organic chemistry and no. 2 in all scientific fields in Poland. 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



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

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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, JUICE – Europe's largest satellite heading towards Jupiter's icy moon and Europa Clipper, NASA.

FEATURED TEAM LEADERS



PhD, DSc
Stanisław Lewiński
EARTH OBSERVATION DIVISION



PhD
Jakub Ryzenko
CRISIS INFORMATION CENTRE



Professor
Włodzimierz Kofman
MARS EXPLORATION LABORATORY



DIVISION IV
Engineering Sciences



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

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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

As one of the leading computer science research centers in Poland, the Institute's mission is to conduct research at the highest standards, provide PhD-level education, and facilitate or coordinate collaborations with other research centers on large IT projects. ICS PAS specializes in research in information and communication technology as well as linguistics. The Institute also comanages TIB PAN, a doctoral school offering interdisciplinary education in informatics, biomedical engineering, and medical sciences.

INTEREST IN HORIZON EUROPE

MSCA Instruments | Cluster 1 | Cluster 2 | Cluster 3 | Cluster 4 | Research Infrastructures | EIC/EIT | Widening instruments

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

Among our recent achievements are: the STV model checker for verification of multi-agent systems properties and MsATL, the first tool for satisfiability checking and model synthesis for strategic logics with imperfect information. In bioinformatics, our research on non-coding regions of DNA has led to the identification of regulatory disorders that disrupt biological pathways. We have developed MCFSID (Monte Carlo Feature Selection and Interdependency Discovery), and CytoMeth, a tool for comprehensive DNA methylation analysis. In the Linguistic Engineering Group, we apply our interdisciplinary expertise to develop useful language resources and tools. Key outcomes of our work include many open language corpora. We have also contributed to the development of the Polish Large Language Model (PLLuM).

FEATURED TEAM LEADERS



Professor
Mieczysław Kłopotek
ARTIFICIAL INTELLIGENCE FUNDAMENTAL RESEARCH LABORATORY



PhD, DSc
Michał J. Dąbrowski
COMPUTATIONAL BIOLOGY GROUP



PhD, DSc
Paweł Morawiecki
CRYPTOGRAPHY TEAM



Professor
Wojciech Jamroga
THEORY OF DISTRIBUTED AND COMPUTING SYSTEMS GROUP



Professor
Szymon Jaroszewicz
STATISTICAL ANALYSIS AND MODELING GROUP



PhD, DSc
Maciej Ogrodniczuk
DEPARTMENT OF LANGUAGE MODELING



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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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 Fluid-Flow Machinery, PAS

GDAŃSK



KEY RESEARCH DOMAINS

fluid mechanics, multiphase flows, thermodynamics, heat transfer, combustion, plasma and laser engineering, mechanical engineering, smart structures, technical diagnostics, tribology, aeroelasticity

ABOUT THE INSTITUTE

The Institute, funded in 1956, conducts fundamental research on the operating principles, design and construction of machines used for energy conversion in flows. It also provides research services related to practical engineering problems. The Institute has five research centres, divided into 19 scientific departments, as well as the Research Centre in Jabłonna, where renewable energy sources are studied and developed.

INTEREST IN HORIZON EUROPE

MSCA instruments | Cluster 4 | Cluster 5 | Widening instruments | EIC / EIT

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

In 2024, eleven scientists from the Institute were listed among the World's Top 2% Scientists ranking compiled by Stanford University in collaboration with Elsevier. In 2023, the Institute was awarded an "A+" rating, the highest category of scientific excellence, in mechanical engineering by the Polish Ministry of Science and Higher Education. In 2018, the Minister of Science and Higher Education gave an award to the Institute's team for outstanding scientific and technical achievements. In 2015, the institute received the Energy Globe National Award 2015 for implementing and coordinating the project "Model agro-energy complexes as an example of distributed cogeneration based on local and renewable sources of energy", selected among more than 1,500 top ecological projects from 177 countries worldwide.

FEATURED TEAM LEADERS



Professor
Wiesław Ostachowicz

CENTRE OF MECHANICS OF MACHINES /
MECHANICS OF INTELLIGENT STRUCTURES
DEPARTMENT



Professor
Dariusz Kardaś

CENTRE OF FLOW AND COMBUSTION /
RENEWABLE ENERGY DEPARTMENT



Assoc. Prof.
Paweł Flaszynski

CENTRE OF FLOW AND COMBUSTION /
AERODYNAMICS DEPARTMENT



Assoc. Prof.
Magdalena Mieloszyk

TRICITY DOCTORAL SCHOOL OF THE
POLISH ACADEMY OF SCIENCES



Assoc. Prof.
Adam Cenian

CENTRE OF PLASMA AND LASER ENGINEERING /
DEPARTMENT OF PHYSICAL ASPECTS OF ECOENERGY



MSc., Eng.
Sebastian Bykuć

CENTRE OF HEAT AND POWER
ENGINEERING / KEZO RESEARCH CENTRE



Institute of Fundamental Technological Research, PAS

WARSAW



KEY RESEARCH DOMAINS

mechanical engineering, material engineering, information technology and telecommunications, automation, electronics, electrotechnology, bio-medical 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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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



Institute of Metallurgy and Materials Science, PAS

KRAKÓW



KEY RESEARCH DOMAINS

materials science, materials engineering, photovoltaics, energy storage, biomaterials, high entropy alloys, shape memory alloys, mechanical properties, physicochemical properties, electron microscopy

ABOUT THE INSTITUTE

Established in 1952, the Institute is dedicated to advancing materials science and engineering through cutting-edge research. Its work underpins the design and implementation of new materials and technologies beneficial to industry, human health, and the environment. With numerous strong, long-standing partnerships across Poland and over 20 countries, the Institute engages in bilateral agreements for exchange programs and shared infrastructure, fostering a collaborative research environment.

INTEREST IN HORIZON EUROPE

Research Infrastructures | Cluster 1 | Cluster 4 | Cluster 5 | Widening instruments

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

The Institute is engaged in over 40 national and international projects in cooperation with industrial partners, with a focus on 4 priority areas: the theoretical basis of phenomena occurring in manufacturing processes, post-processing, use, and material failure; environmentally friendly materials and technologies for human health; functional materials and new technologies for the production and diagnosis of materials; and computational methods for material studies. Our Accredited Testing Laboratories operate to European standards, excelling in areas such as photovoltaics, the physicochemical properties of materials (hydrogen absorption/desorption), and advanced electron microscopy.

FEATURED TEAM LEADERS



PhD, DSc, Eng.
Adam Dębski
LABORATORY OF METALLURGICAL PROCESSES



Professor
Natalia Sobczak
LABORATORY OF METALLURGICAL PROCESSES



PhD, DSc
Magdalena Bieda-Niemiec
LABORATORY OF SCANNING ELECTRON MICROSCOPY



PhD, DSc
Joanna Wojewoda-Budka
DEPARTMENT OF MULTILAYER MATERIALS



PhD, DSc
Kazimierz Drabczyk
PHOTOVOLTAIC LABORATORY



PhD, DSc
Roman Major
LABORATORY OF SURFACE ENGINEERING AND BIOMATERIALS



Institute of Theoretical and Applied Informatics, 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

IITIS PAN focuses on the following research areas: performance evaluation of ICT systems, including security, reliability and energy efficiency; Internet of Things (IoT), with emphasis on wireless communication and network protocols; quantum information processing, quantum programming languages and simulations of quantum computer; signal analysis and machine learning with both classic algorithms (e.g. detection of anomalies and patterns) and deep learning networks (e.g. efficiency of AI architectures).

INTEREST IN HORIZON EUROPE

MSCA instruments | Cluster 4 | Cluster 6 } Widening instruments | EIC / EIT

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

The institute is currently involved in 11 projects, including the development of reliable electronics (ReACTIVE Too) and enhancing infrastructure resilience (IMPACT Programme - IMPRESS-U). Other projects focus on IT system reliability, IoT security (DOSS) and quantum computing (Harnessing Quantum Criticality), along with initiatives focused on social innovation. The institute's 3D Space Exploration Lab and Internet of Things Lab support AI and machine learning development with high-performance GPU stations and access to quantum computing resources like the D-Wave.

Development of communication architecture for Smart City based on LoRa and applying it to water leakage detection and localization.

FEATURED TEAM LEADERS



PhD, DSc
Krzysztof Grochla
INTERNET OF THINGS GROUP



Professor
Zbigniew Puchała
QUANTUM SYSTEMS OF INFORMATICS GROUP



PhD, DSc
Joanna Domańska
SECURITY, MODELLING AND PERFORMANCE EVALUATION GROUP



PhD, DSc
Przemysław Głomb
MACHINE LEARNING GROUP



Mineral and Energy Economy Research Institute, PAS

KRAKÓW



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

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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



Nalecz Institute of Biocybernetics and Biomedical Engineering, PAS

WARSAW



KEY RESEARCH DOMAINS

biomeasurements, biomechanics, artificial organs, nanobiosystems, bio-encapsulation, biomaterials, bioinformatics, immobilization medical informatics, biomedical imaging, biosystems modelling

ABOUT THE INSTITUTE

The Institute’s mission is to develop and implement new technologies, devices and supportive theoretical tools for medical diagnosis and treatment. Our work aims to improve the longevity and quality of life of patients with chronic and civilization-related diseases. By fusing engineering and the life sciences, the Institute drives scientific discovery and the invention of new biomedical technologies.

INTEREST IN HORIZON EUROPE

MSCA instruments | Cluster 1 | Cluster 4 | Widening instruments | EIC / EIT

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

The Institute leads advanced research and education initiatives in biocybernetics and biomedical engineering. Its research activities focus on biomeasurements, computer data processing and analysis for improved medical diagnosis and therapy, support and substitution of lost functions of the organism, techniques of micro- and nanoencapsulation and mathematical/physical modelling, and computer simulations of selected physiological processes and organs functions. The Institute collaborates closely with multiple clinical partners, enabling the testing and validation of innovative biomedical technologies in the clinical environment.

FEATURED TEAM LEADERS



Professor, PhD

Piotr Ładyżyński

LABORATORY OF DIAGNOSIS AND THERAPY
SUPPORT OF METABOLIC DISEASES



Professor, PhD

Marek Darowski

LABORATORY FOR DIAGNOSTICS AND THERAPY
OF CARDIOVASCULAR-RESPIRATORY SYSTEM



PhD

Joanna Stachowska-Piętka

LABORATORY OF MATHEMATICAL MODELING
OF PHYSIOLOGICAL PROCESSES



DIVISION V
Medical Sciences



Hirszfeld Institute of Immunology and Experimental Therapy, PAS

WROCLAW



KEY RESEARCH DOMAINS

clinical immunology, experimental cancer therapy, glycoimmunology, infection immunology, immunopharmacology, bacteriophage biology and phage therapy, bioinformatics, virology

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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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 response to the coronavirus pandemic, the Institute operated a SARS-CoV-2 Infection Diagnostics Laboratory between 2020 and 2022. 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 **Lidia Karabon**
LABORATORY OF GENETICS AND EPIGENETICS OF HUMAN DISEASES



Professor **Joanna Wietrzyk**
LABORATORY OF EXPERIMENTAL ANTICANCER THERAPY



Professor **Andrzej Górski**
BACTERIOPHAGE LABORATORY



Professor **Katarzyna Bogunia-Kubik**
LABORATORY OF CLINICAL IMMUNO-GENETICS AND PHARMACOGENETICS



IMol Polish Academy of Sciences

WARSAW



KEY RESEARCH DOMAINS

molecular and cellular biology, biochemistry, bioinformatics, stem cell biology, metabolism, signal transduction, proteomics, metabolomics, genomics, structural biology, virology

ABOUT THE INSTITUTE

Located in Warsaw, IMol is dedicated to basic research that bridges multiple disciplines and fosters global collaboration. The institute partners with the University Medical Center in Göttingen, The IOCB Prague in Czech Republic and with The Weizmann Institute of Science in Israel. IMol is supported by an International Scientific Board chaired by Professor Victor Ambros, Nobel Laureate in Physiology or Medicine (2024).

INTEREST IN HORIZON EUROPE

MSCA instruments | Cluster 1 | Widening instruments

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

IMol hosts 14 research groups and two Core Facilities: Proteomics and a brand new Medicinal Chemistry, led by distinguished scientists including Professors Agnieszka Chacińska and Magda Konarska. The institute is funded by national agencies such as FNP and NCN, as well as international organizations including EMBO. Its infrastructure includes fully equipped biochemistry and molecular biology laboratory spaces with: confocal microscopy, fluorescent and live-imaging microscopy; Amersham image acquisition systems; Typhoon quantitative phosphor-imaging system, NanoDrop; real-time PCR systems, ultracentrifuge and gradient analysis system. Proteomic Core Facility equipped with a Dionex UltiMate 3000 nano-LC system coupled to a Q-Exactive HF-X via an EASY-Spray ion source (Thermo FisherScientific).

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

POZNAŃ



KEY RESEARCH DOMAINS

cancers, reproductive biology, infertility, regenerative medicine and tissue engineering, rare diseases, personalized medicine; genomics, transcriptomics and spatial transcriptomics, epigenomics, proteomics

ABOUT THE INSTITUTE

Since 1974, we have pioneered advancements in cytogenetics, molecular genetics, and biotechnology. The Institute is a key research center in Poland, investigating the functions of the genome, transcriptome, epigenome, and the molecular basis of human diseases. As a holder of the “HR Excellence in Research” distinction, we create a stimulating environment for scientists, enabling professional development through work with dedicated teams, participation in engaging research projects and rewarding scientific collaborations.

INTEREST IN HORIZON EUROPE

MSCA instruments | Cluster 1 | Widening instruments

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

There are over 50 research projects conducted at IHG, PAS, both nationally and internationally funded. Our work has led to major discoveries, such as identifying recurrent TEX11 mutations in infertile men and revealing IRF4 reprogramming in Hodgkin lymphoma. We provide research services like single-cell analysis and spatial transcriptomics with the 10x Genomics platform. The Innovative Medical Center facilitates translational research with socio-economic impact. Our Genomic Sequencing Lab is equipped with next-generation sequencing for high-resolution genetic analysis, while the Advanced Imaging Lab offers cutting-edge tools (the Leica DMI8 confocal microscope, BRUKER NanoWizard Sense Atomic Force Microscope). IHG PAS offers cell line models for cancer research, including therapy-resistant lines.

FEATURED TEAM LEADERS



Professor
Ewa Ziętkiewicz

DEPARTMENT OF MOLECULAR AND CLINICAL GENETIC



Professor
Jadwiga Jaruzelska

INDEPENDENT RESEARCH GROUP OF RNA BIOLOGY



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



Institute of Medical Biology, PAS

ŁÓDŹ



KEY RESEARCH DOMAINS

medical biology, microbiology, molecular virology and biology, DNA structure and function, cellular structure of bacteria, genomics, proteomics

ABOUT THE INSTITUTE

The Institute pursues advanced scientific research in the biomedical sciences, with a strong focus on uncovering the fundamental molecular mechanisms that underly physiological and pathophysiological processes, as well as on medical biotechnology. It actively contributes to the advancement of these research fields, especially by developing innovative methods for both basic and applied research. The Institute also operates a doctoral school and is authorized to award doctoral (PhD) and post-doctoral (DSc) degrees in medical sciences and medical biology.

INTEREST IN HORIZON EUROPE

Cluster 1 | Widening instruments

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

The Institute has earned an “A” category rating in medical sciences from the Polish Ministry of Education and Science. Its activities are structured across 14 specialized laboratories. Over the last ten years, it has carried out over 70 research projects in collaboration with both national and international partners. These projects have been financed by Poland’s National Science Centre (NCN), the Polish Ministry of Education and Science (the Institute being a leader of the “Pol-Openscreen” consortium – the Polish Platform of Screening Infrastructure for Biological Chemistry), and also European Union funds (EU-Openscreen ERIC). Notably, the Institute is home to the National Library of Chemical Compounds, the only infrastructure of its kind in Poland.

FEATURED TEAM LEADERS



Professor
Agnieszka Olejniczak
SCREENING LABORATORY



Professor
Zbigniew Leśnikowski
SCREENING LABORATORY



Professor
Jarosław Dziadek
SCREENING LABORATORY



Maj Institute of Pharmacology, PAS

KRAKÓW



KEY RESEARCH DOMAINS

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

ABOUT THE INSTITUTE

The Institute, funded 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

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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 Gołembowska
RESEARCH TEAM NO 2, DEPARTMENT OF PHARMACOLOGY



PhD, DSc
Grzegorz Kreiner
DEPARTMENT OF BRAIN BIOCHEMISTRY



Mossakowski Medical Research Centre, PAS

WARSAW



KEY RESEARCH DOMAINS

neurodevelopment, neurodegeneration, molecular oncology, immunoncology, regenerative medicine, rare diseases, aging diseases, experimental pharmacology, medical chemistry, GMP, ATMP

ABOUT THE INSTITUTE

The Institute is the largest within the Polish Academy of Sciences and the only one combining basic research with clinical practice. Established almost 60 years ago, it now employs over 250 people (including 150 academic staff). Its priority research areas include neurodevelopmental and neurodegenerative diseases, cell therapies in regenerative medicine, molecular oncology, immunoncology, molecular nephrology, aging and longevity, and experimental pharmacology. It is a partner for two Doctoral Schools and holds an Erasmus+ Charter for Higher Education.

INTEREST IN HORIZON EUROPE

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

CONTACT

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FEATURED ACHIEVEMENTS & FACILITIES

The Institute holds the highest “A+” category rating of scientific excellence in medical sciences, as well as the prestigious EU “HR Excellence in Research” Award. The Institute comprise of 29 research units and the core facility “Zone of Preclinical Research and Services” with 4 well-equipped laboratories and a modern animal house. Research is carried out in compliance with the 3Rs of animal testing, using in vitro approaches at the molecular and cellular levels in studying rare and civilization-related diseases. State-of-the-art bioengineering methods include genome editing, omics, patient-derived iPSC lines, and brain organoids. Researchers at the Institute are leading 106 projects, involving both national and worldwide research centres and scientific networks.

FEATURED TEAM LEADERS



PhD
Izabela Sabała
LABORATORY OF PROTEIN ENGINEERING



PhD
Jakub Godlewski
DEPARTMENT OF NEUROONCOLOGY



PhD, DSc
Dawid Walerych
LABORATORY OF HUMAN DISEASE
MULTIOMICS



PhD
Magdalena Winiarska
DEPARTMENT OF IMMUNOLOGY



Professor
Magdalena Ziełńska
DEPARTMENT OF NEUROTOXICOLOGY



Professor
Leonora Bużańska
DEPARTMENT OF STEM CELL
BIOENGINEERING