



Jagiellonian University Medical College

POTENTIAL-EXCELLENCE-CREATIVITY

Dynamic actor of European Research Area

Brussels, 13 November 2009

Katarzyna Gubernat

Kraków



a city wrapped in legend, where time flows differently and where every moment becomes a moment of history



for centuries it was the capital of Poland, the seat of kings, drawing great scholars and artists from all over the world



the renaissance Royal Castle at Wawel, the gothic St Mary's Basilica, the historical trade pavilions of the Cloth Hall, the former Jewish city of Kazimierz, and even the Nowa Huta district, absorbed by Krakow together with its socialist-realist, industrial architecture, are all places which make a visit to Krakow extremely worthwhile

Jagiellonian University

The oldest University in Poland



- ✧ founded in 1364
- ✧ second oldest in Central Europe
- ✧ second largest and top ranked in Poland
- ✧ University where Mikołaj Kopernik studied

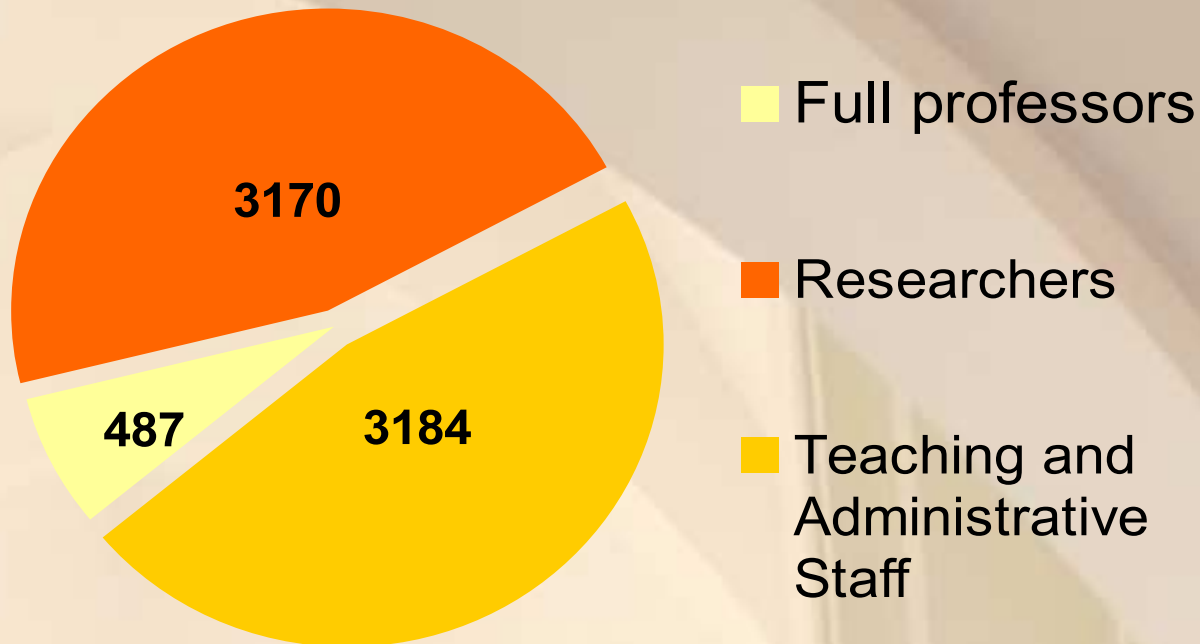




Jagiellonian University

research potential

Scientific and academic staff





Jagiellonian University Medical College

- top ranked Medical University in Poland
- over **6000 students** (including 442 foreign students)
- **650** graduates annually
- **1500 clinicians**, over 2000 nurses
- over 100 training courses for app. 4000 doctors annually
- cooperation with **25 universities** from abroad
- participation in international scientific programs:
FP7, Erasmus, LLL, Ceepus, Tempus, COST
- **Few UE experts – evaluators**

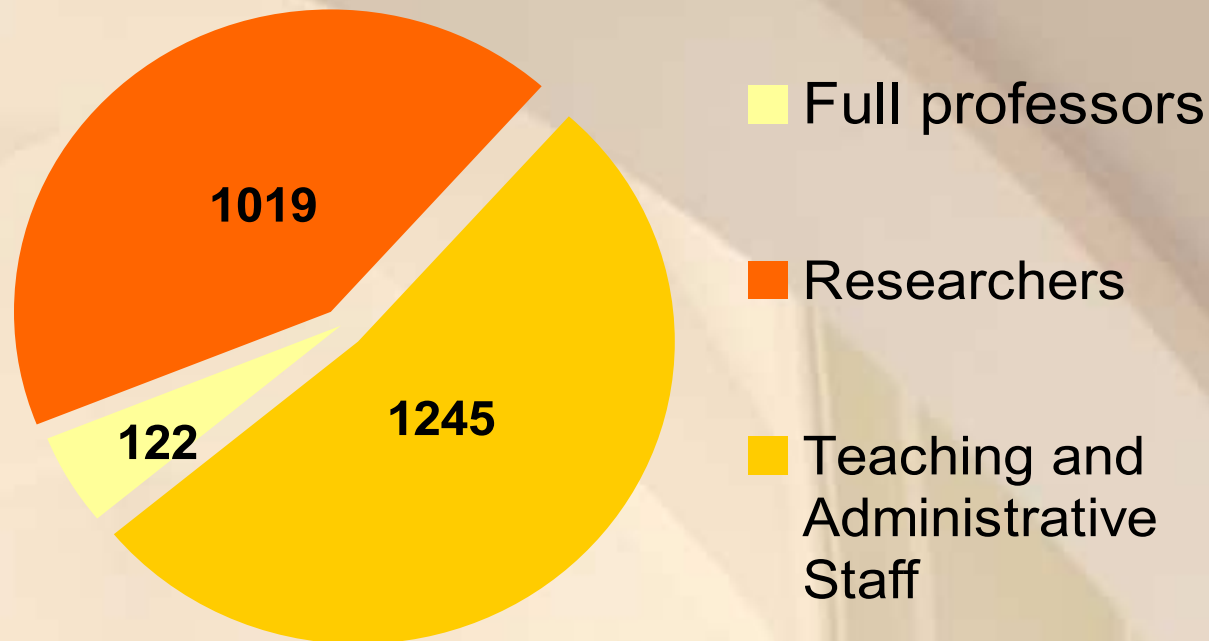




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research potential

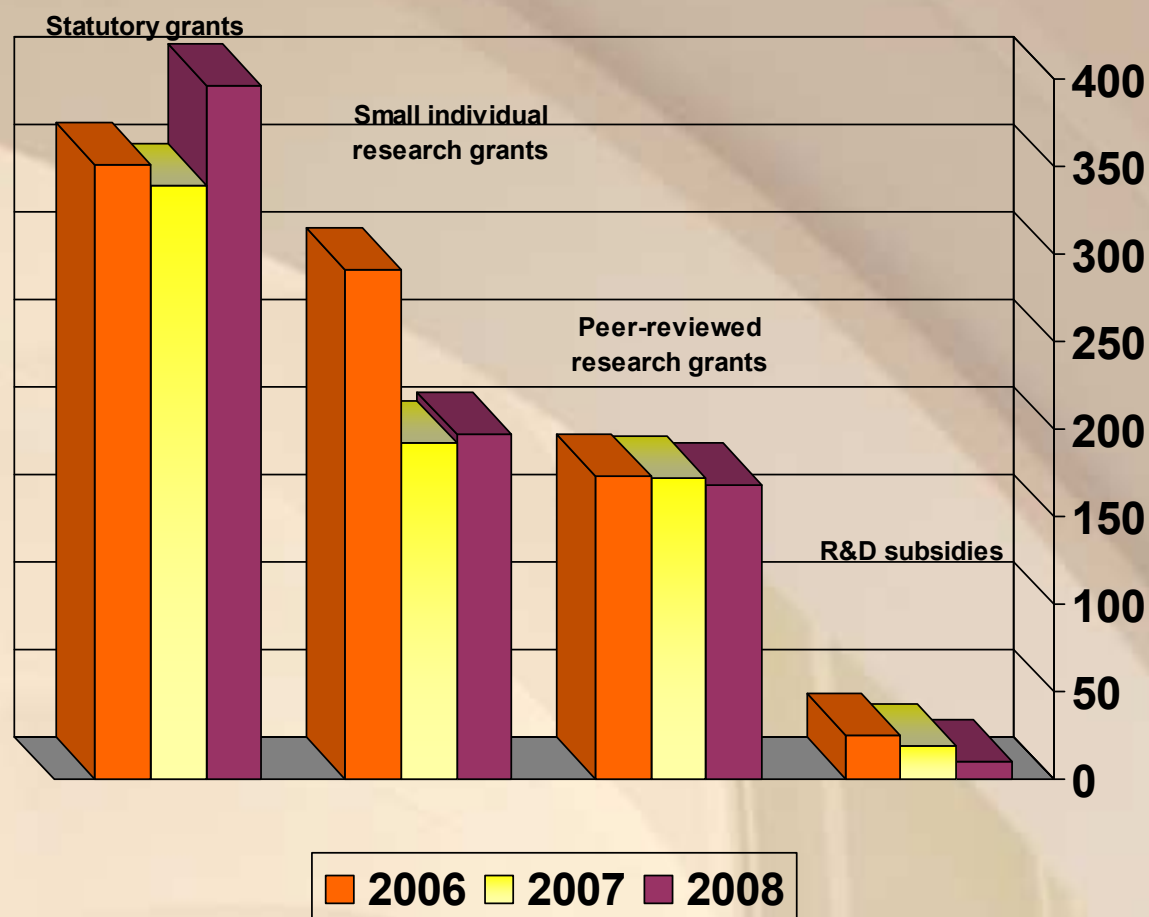
Scientific and academic staff





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research: national grants





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research: national grants

1. *Clinical significance of the sentinel lymph node in surgical treatment of vulvar carcinoma* (Chair of Gynecology and Obstetrics, Department of Gynecology and Oncology)
2. *Assessing changes in the activity of immune system cells in the endometrium during the physiological menstrual cycle, in decidua in physiological conditions and in pathological states complicating gestation, as well as in endometriosis foci and ovarian cancer foci* (Chair of Gynecology and Obstetrics, Department of Gynecology and Oncology)
3. *The role of CXCR4 and CXCR7 chemokine receptors in progression and metastases of cervical carcinoma* (Chair of Clinical Immunology and Transplantology, Department of Transplantology, Polish-American Institute of Pediatrics)
4. *The study of clinical significance of HER1/2, MAGE1/2 and MUC1 gene expression in tumour cells and isolated tumour cells in the blood and bone marrow and of the behaviour of some parameters of the immune system in colorectal cancer patients* (I Chair of General Surgery)



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research: national grants

5. *Suggesting ways to improve the early diagnosis of prostate cancer* (Chair and Clinic of Urology)
6. *A prospective multicenter study on the potential for improvement in the therapy efficacy in gastric cancer patients, with special emphasis on the significance of extended lymphadenectomy and combination therapy. Coordination of the multicenter studies* (I Chair of General Surgery)
7. *The study of mechanisms and efficacy of celecoxib and lovastatin used as chemotherapy modulators in patients with advanced pancreatic cancer* (I Chair of General Surgery)
8. *Diagnosis and treatment of bladder cancer using PDD (Photodynamic Diagnosis), FISH (Fluorescent in Situ Hybridization) and other markers of cancer progression, including environmental factors* (Chair and Clinic of Urology)



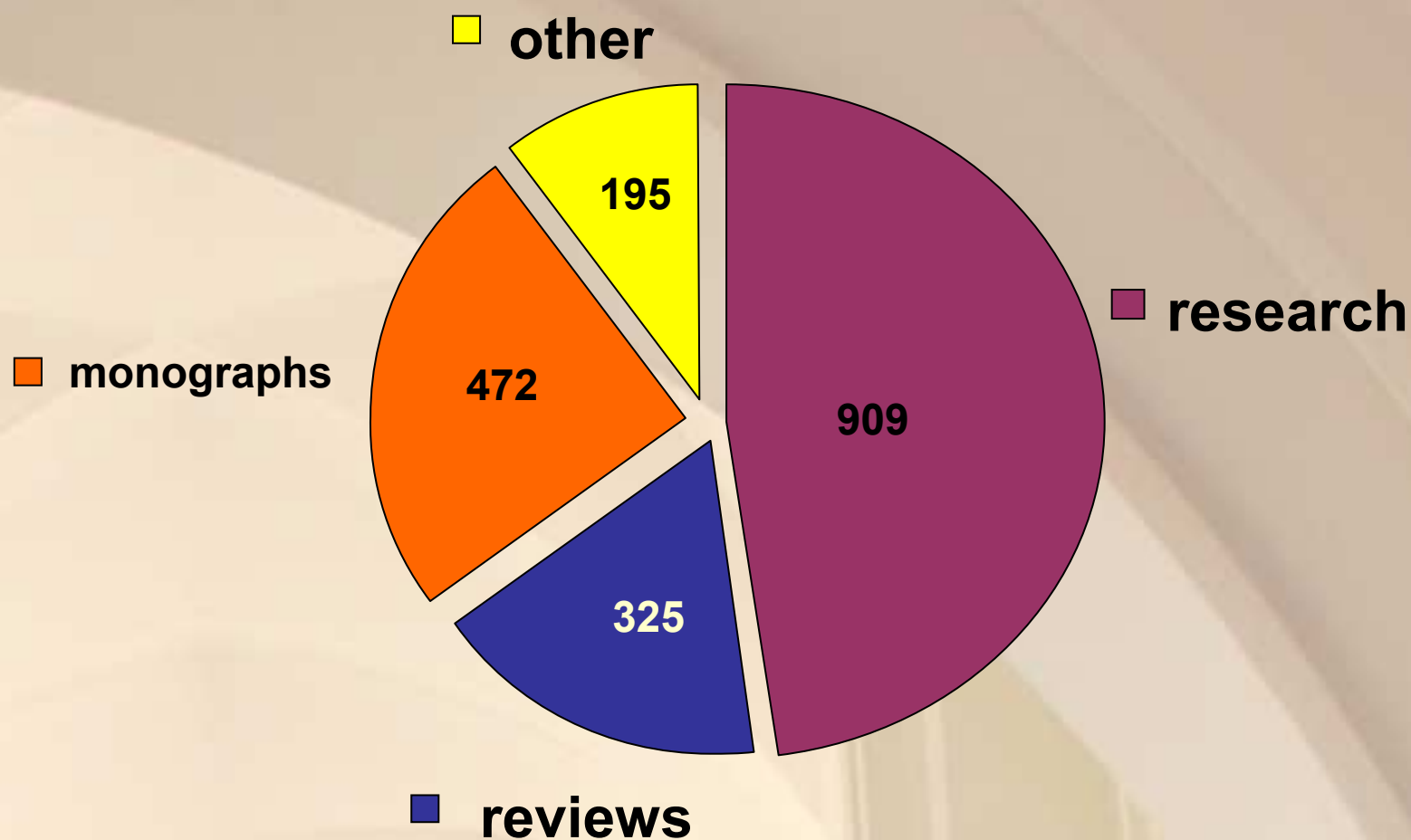
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research: national grants

9. *The fatty acid composition of the phospholipid fraction in plasma and tumour tissue in colorectal cancer patients before and after surgery*
(Polish-American Institute of Pediatrics)
10. *Monitoring the residual disease in patients with chronic myeloid leukemia treated with imatinib by means of real-time quantitative polymerase chain reaction (RQ-PCR), designing standards of molecular diagnostics of residual disease in this group of patients, evaluation of ABL mutation frequency in the population of chronic myeloid leukemia patients at diagnosis and during inatinib treatment by means of high resolution mass spectrography (D-HPLC).*
Genetic mechanisms underlining the carcinogenesis of acute myeloid leukemia: identifying molecular markers in correlation with the clinical progress of the disease (Chair of Hematology)



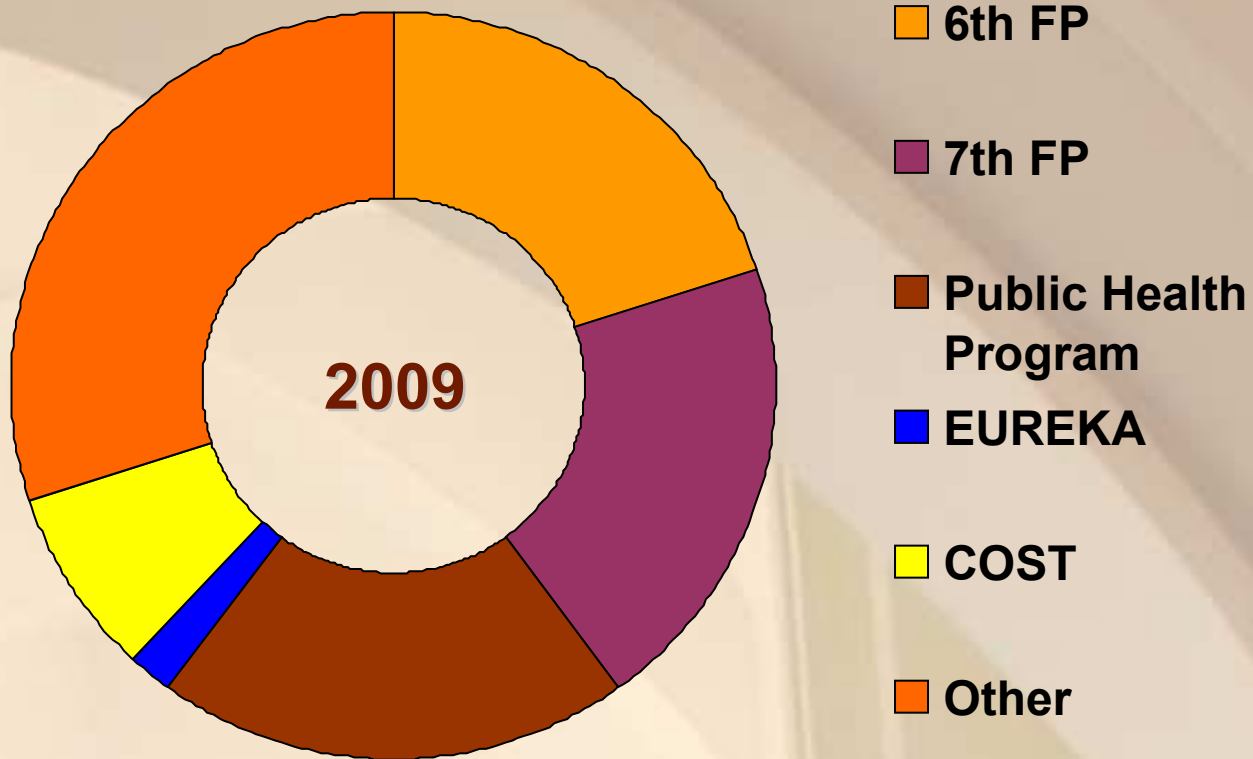
Jagiellonian University Medical College publications





Jagiellonian University Medical College research

International grants





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FP5 experiences - list of some from 22 realized projects:

IBDMODELS (2000 – 2003) QLRT-1999-00050

Inflammatory bowel disease: analysis of environmental, immunological and genetic influences using model systems

DLARFID (2002 – 2004) QLK1-CT-2001-00183

Dietary lipids as risk factors in development. mechanistic issues.

JUMC COORDINATION

PENCE (2002 – 2003) ICA1-CT-2002-60038

Promotional-educational network for 6.Framework Programme

„Common Europe”

Project of the JUMC International Cooperation Office



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FP5 experiences - list of some from 22 realized projects associated with the study of cancer :

ESTDAB (2001-2003)

QLRT-CT-2001-01325

European Searchable Tumour Cell Line Database

SIOPEN-R-NET (2002-2005)

QLRI-CT-2002-01768

European Society of Paediatric Oncology Neuroblastoma Research Network

CRB-NAS (2001-2004)

QLK5-CT-2000-00628, QLK5-CT-2002-02831 (prolongation)

Cytogenetic Biomarkers and Human Cancer Risk
(CancerRiskBiomarkers)



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FP6 experiences - list of some from 15 realized projects associated with the study of cancer:

CELLION (2003-2008)

MRTN-CT-2003-50923 (MCA)

Studies of cellular response to targeted single ions using **nanotechnology**

ENACT (2005-2007)

Contract no.: 503306

European Network for the identification and validation of Antigens and biomarkers in Cancer and their application in clinical Tumour immunology

EUROPEAN LEUKEMIANET (2004 – 2009)

Contract no.: 503216

Strengthen and develop scientific and technological excellence in research and therapy of leukemia (CML, AML, ALL, CLL, MDS, CMPD) by integration of the leading national leukemia networks and their interdisciplinary partner groups in Europe (NoE)



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FP7 experiences - list of some from 10 realized projects:

CEED3 (2008-2012) HEALTH-F2-2008-223211

Collaborative European Effort to Develop Diabetes
(Small and medium-scale focused research project)

LIPIDOMICNET (2008-2012) HEALTH-F4-2008-202272

Lipid droplets as dynamic organelle of FAT deposition and release:
Translational research towards human disease. **Collaborative Project**
(Large-scale integrating project)

HYPERGENES (2008-2011) HEALTH-F4-2007-201550

European Network for Genetic-Epidemiological Studies: building a method
to dissect complex genetic traits, using essential hypertension as a
disease model. **Collaborative Project (Large-scale integrating project)**

RN4CAST (2009-2011) HEALTH-F2-2009-223468

Nurse forecasting: Human Research planning in Nursing
(Small and medium-scale focused research project)



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INTERNATIONAL COOPERATION OFFICE

MAIN GOALS:

- **Consultation**
 - information about new calls and actions
 - organization of workshops and conferences
 - preparation of the budget within FP7 project
 - promotion the EU programs
- **project management** including legislative and financial aspects
 - initiation and maintenance of international relations
 - **looking for partners** for the international projects





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**„Each of us have different dreams
different talents
and different destinations,
yet we all have the power to make a
new tomorrow”**