

Expression of interest for research cooperation

Description of institution

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| Interested institution: | Uniwersytet Rzeszowski University of Rzeszow |
| Department carrying out the proposed research | Wydział Medyczny Faculty of Medicine |
| Address and webpage | Uniwersytet Rzeszowski Wydział Medyczny Al. mjr. W. Kopisto 2 a 35-310 Rzeszów Poland http://www.ur.edu.pl/en/departments/faculty-of-medicine |
| Contact person (name, e-mail address, phone) | Dean: dr hab. Artur Mazur, prof. UR tel. +48 17 872 11 53 e-mail: wmed@ur.edu.pl |

Research offer

Brief description of the department (key research facilities, infrastructure, equipment)

(up to 1000 characters)

Structure:
 Institute of Experimental and Clinical Medicine
 Institute of Physiotherapy
 Institute of Nursing and Health Sciences
 Institute of Midwifery and Medical Rescue
 Centre for Innovative Research in Medical and Natural Sciences' (innovative research center, 17 laboratories in various fields)

Majors of study: medicine, dietetics, electro-radiology, physiotherapy, nursing, midwifery, emergency medicine, public health.

Equipment: fully equipped labs for molecular biology, flow cytometry, cell and tissue cultures, biobanking, immunohistochemistry, chemical synthesis, medical simulation, telemedicine, analysis of locomotor functions

Scientific area

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|--|--|
| <input checked="" type="checkbox"/> X Chemistry | <input type="checkbox"/> Social Sciences and Humanities |
| <input type="checkbox"/> Economic Sciences | <input type="checkbox"/> Information Science and Engineering |
| <input type="checkbox"/> Environment and Geosciences | <input checked="" type="checkbox"/> X Life Sciences |
| <input type="checkbox"/> Mathematics | <input type="checkbox"/> Physics |

Research field

(up to 500 characters)

Departments of Faculty of Medicine focused their researches on:

- Quality of life of patients.
- Telemedicine
- Overweight and obesity of children and adolescents.
- Qualitative and quantitative analysis of the diet of children and adolescents.
- Health of youth in terms of perinatal care.
- Assessment of stability and efficiency of walk and dysfunctions of a motor organ.
- Assessment of physical fitness, built and body posture and the effects of rehabilitation.
- Diagnostics and rehabilitation in preventive and operative treatment of spine injuries.
- Multiple medical disciplines

The proposed research/project description

(up to 1000 characters)

The main ongoing research projects carried out at our faculty are:

- Epidemiology and pathogenesis of childhood obesity
- Dendrimer Macromolecular Conjugates Targeted To Cancer Cells
- Steroid Hormone Profile In Biofluids By Gas Chromatography Mass Spectrometry
- Flavonoids For Biochemical Research And Biopharmaceutical Assessment
- Antimicrobial Polyethylene Film and Izoksantohumol For Food Packaging
- Utilization Of Cytisine As A Smoking Cessation Agent
- 19F MRI Image-Guided Drug Delivery Systems.
- MRI Imaging of Trastuzumab conjugates and their internalization in Her-2 overexpressing breast tumour cells.
- Assessment Of Tumour Associated Macrophages and use of liposomal bisphosphonates in depletion of TAM
- Surgery Induced Immunosuppression
- NKT cells , nktregs and Bregs in human Diseases
- Role Of Long Non-Coding rnaa In Non-Small Cell Lung Cancer
- Obesity /Metabolic Syndromes As Low Grade Inflammation

- Immunonutrition
- Chemiluminescence Energy Transfer For Photodynamic Anti-cancer Therapy Without Light Using Chemilumigen Conjugated Dyes
- Genetics Of Breast Cancer, Leukaemia, Glioblastoma, Endometrial Cancer, Neurodegenerative Disorders, Osteoarthritis

Additional information (key Persons and Expertise; additional trainings, research programme, other)

(up to 1000 characters)

Key Persons (and Expertise):

Dean: dr hab. Artur Mazur, prof. UR (pediatry)

prof. dr hab. n. med. Dorota Darmochwał – Kolarz (perinatology)

prof. dr hab. n. med. Paweł Januszewicz (telemedicine)

dr hab. n. med. Bogumił Lewandowski, prof. UR (chirurgery)

prof. dr hab. n. med. Stanisław Orkisz (anatomy)

dr hab. n. med. Grzegorz Raba (gynaecology)

dr hab. n. med. Anna Wilmowska - Pietruszyńska, prof. UR (physiotherapy)

dr hab. n. med. Jacek Tabarkiewicz, prof. UR (immunology)

prof. dr hab. n. med. Piotr Tutka (pharmacology)

prof. dr hab. inż. Stanisław Wołowicz (biochemistry, chemistry)

dr hab. n. med. Izabela Zawlik, prof. UR (molecular biology)