



MEDICAL UNIVERSITY OF GDAŃSK

Meet our University

Gdańsk 2024

www.mug.edu.pl

Medical University of Gdańsk



is the **largest** medical school in northern Poland. This modern academic center has been providing **high quality** education in all medical professions for 75 years and conducting **world-class research**.



The MUG students improve their **practical skills** in modern **simulation and multimedia labs**, such as the Medical Simulation Centre, Nursing Skills Laboratory, Patient Simulation Laboratory, and Dental Simulation Laboratory. In addition, they have a Training Pharmacy at the Faculty of Pharmacy at their disposal.



the medical achievements of the University include, among others: the first clipping procedure of the mitral valve in Poland by the means of the Pascal Ace Implant system, the first implantation procedure of the atrial heart flow regulator in Poland, the first pancreatic islet transplantation in Pomerania, along with the lung and liver transplantation, the fifth CroíValve DUO Tricuspid Coaptation Valve system implementation procedure in the world.



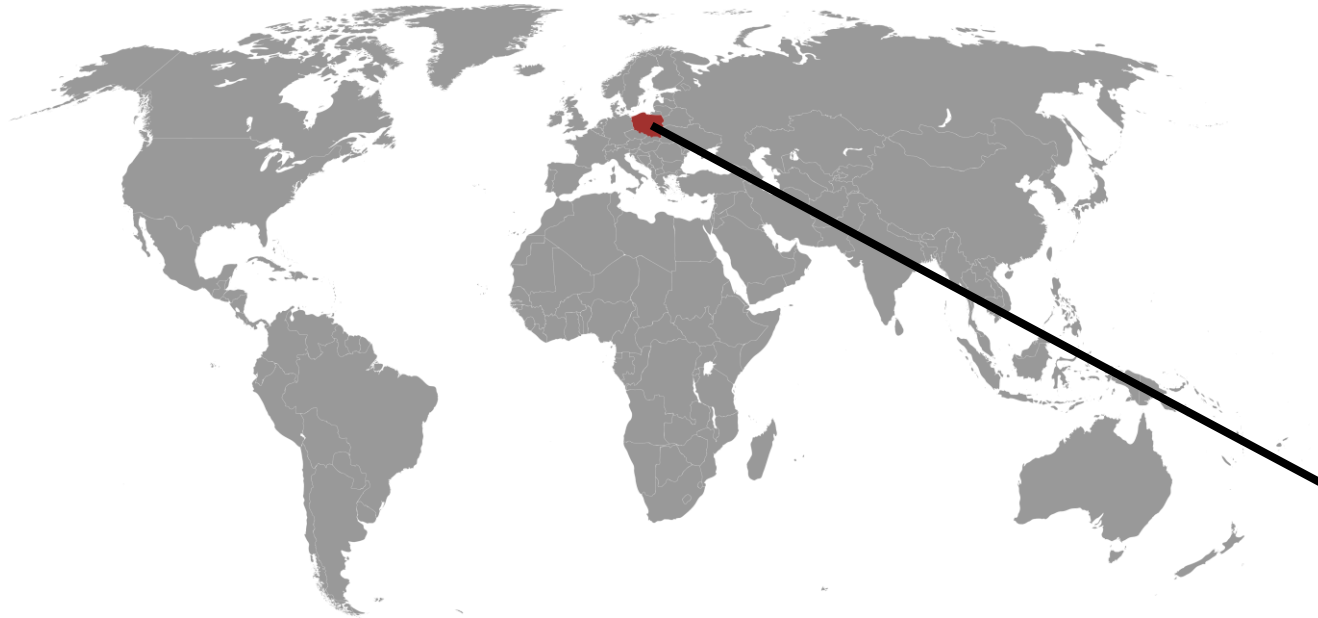
is one of Poland's few universities to be **recognised in all four leading world academic rankings**: Academic Ranking of World Universities (ARWU), QS World University Rankings, Times Higher Education World University Rankings and U.S. News Best Global Universities Rankings. It has also been featured in the prestigious Times Higher Education Impact Rankings 2023.

Research university

- from October 30th 2019 the Medical University of Gdańsk officially holds the prestigious ministerial title of a research university.
- it is 1 of 10 universities in Poland and the **only medical university** that was awarded a place in this prestigious group elected by the Ministry of Science and Higher Education.



Where can you find us?





GDAŃSK
city of solidarity,
culture and freedom



Did you know?

- that almost **14%** of students at the Medical University of Gdańsk are international students
- that medicine is still one of the most popular fields of study in Poland
- that over **50%** of all international students in Gdańsk study at the Medical University of Gdańsk



MUG among the best in the world



Name of the ranking	Category	Place
Perspektywy 2023	Medical universities	2
	Public universities	9
Academic Ranking of World Universities (ARWU) 2023	Clinical medicine	401-500
QS World University Rankings by Subject 2023	Medicine	551-600
THE World University Rankings 2023	World university ranking	9 in Poland 1001-1200 general
CWTS Leiden Ranking	Women's publication ratio among all university publications	25 in Poland 326 in Europe
University Ranking of Academic Performance	World medical universities	5 in Poland 446 in the world
CWUR World University Ranking	World university ranking	1087
Best Global Universities Rankings 2022-2023	Public universities	436 in Europe
	Oncology	122
	Clinical Medicine	456
THE Impact Rankings 2023	General classification	801-1000
	Good Health and well-being	101-200
	Reduced inequalities	301-400
	Gender equality	601-800



Education at the MUG

- provides a **solid foundation** for further professional work
- the alumni are **highly qualified**, supported by reliable theoretical knowledge and practical skills
- provides **practical teaching** of the chosen medical profession with the use of phantom labs
- possesses **the Polish first** interactive system of teaching histology and cytology in Poland
- it uses **new technologies**, including 3D printing, in didactics and clinical diagnostics



About the MUG



one of the best Polish medical universities*

* according to the Perspektywy Educational Foundation ranking, June 2023



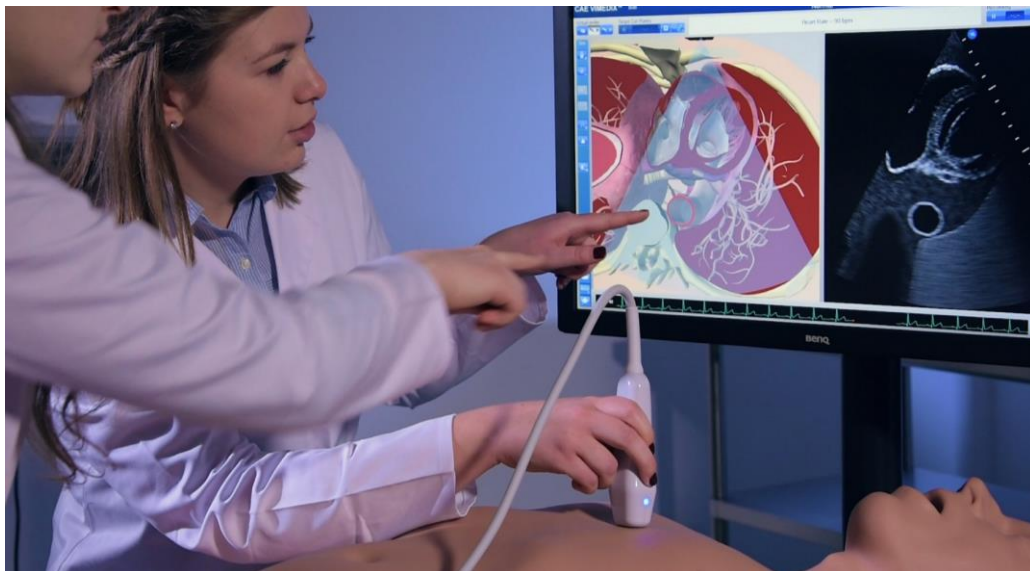
the most **international** University in northern Poland (almost 14% of students)



steadily **gains** higher positions in both national and international rankings



a university **leading** in key categories such as efficiency and scientific potential



Our history

One of the oldest medical universities in Poland

- Physician Academy of Gdańsk – October 8th **1945**
- Medical Academy of Gdańsk – **1950**
- Intercollegiate Faculty of Biotechnology University of Gdańsk and MUG – **1993**
- English Division of the Faculty of Medicine – **2001**
- Faculty of Health Sciences with Subfaculty of Nursing – **2006**
- Medical University of Gdańsk – **2009** (Academy changed its status to MUG)
- Faculty of Pharmacy recognised as the Lead National Scientific Centre – **2012-2017**
- International Research Agenda – **2018**
- Centre of Translational Medicine – **2019**
- Medical University of Gdańsk becomes a research university – **2019**
- Medical University of Gdańsk, Gdańsk University of Technology and the University of Gdańsk established the Fahrenheit Union of Universities in Gdańsk – **2020**



Source: the MUG and NCU archives

About the MUG

- educates more than 6300 students, including Ph.D. and postgraduate students in 4 Faculties
- offers 8 programmes conducted in English
 - **6-year M.D. Programme**
 - **5,5-year Master in Pharmacy Programme**
 - **2-year Master in Sustainable Drug Discovery**
 - **3-year Bachelor of Nursing Programme**
 - **1-year Premedical Course**
 - **4-year Doctoral School (Medicine, Pharmacy, Health Sciences)**
- has modern clinical and teaching units



The MUG's educational base

- numerous phantom and multimedia labs
- the Medical Simulation Centre
- Training Pharmacy at the Faculty of Pharmacy
- modernised Main Library
- modern Sports Centre
- modernised workshop and lecture rooms
- modern clinical facilities – buildings of the Invasive and Non-Invasive Medicine Centre



Orientation Week

- it is a special week of orientation activities and courses for all freshman students and incoming ERASMUS+ students
- helps the incoming students become acquainted with the MUG campus, student life, the teaching structure at the MUG and accommodation
- major activities include Welcome and Overview, Social Events, Distribution of Student ID Cards, Polish Language Course, Matriculation Ceremony, Student Resources, Stress Management/Mental Health information

www.admission.mug.edu.pl



Study programmes

- Medicine (Polish and English)
- Dentistry
- Dental Techniques
- Pharmacy (Polish and English)
- Medical Analytics
- Nursing (Polish and English)
- Midwifery
- Nutrition and Dietetics
- Electroradiology
- Environmental Health
- Public Health – health care system management
- Physiotherapy
- Environmental health
- Environmental health with OSH
- Pharmaceutical and Cosmetic Industry
- Sustainable Drug Discovery (English)
- Rescue and Emergency Medicine
- Psychology of Health
- Pharmaceutical and Cosmetic Industry
- Biotechnology (with University of Gdańsk)
- Mechanical-Medical Engineering (with Gdańsk University of Technology)
- Medical Physics (with University of Gdańsk)
- Speech Therapy (with University of Gdańsk)
- Doctoral Studies (level 3)
- preparatory course for foreign students (PREMED)
- Clinical research – brand new programme launched in Oct 2023

Foreign students

Sweden	170
Norway	169
India	163
Belarus	53
Iran	74
Ukraine	45
Nigeria	44
Zimbabwe	21
Italy	17
Egipt	15
Syria	14
Canada	11
Pakistan	11
Great Britain	10
Other (<10 per country)	138
TOTAL	955





First Doctoral School

- it is an organised form of education in the following disciplines:
 - medical sciences
 - pharmaceutical sciences
 - health sciences
- the doctoral school is free of charge for all Ph.D. students
- each participant of the doctoral school receives a scholarship



The MUG ambassadors



possess high professional qualifications, supported by reliable theoretical knowledge and practical skills



are the in-demand candidates on the job market



are professionally successful both at home and abroad



are the MUG Ambassadors, actively promoting our university in their daily work



Prof. Anna Dominiczak

Deputy director and Head of the College of Medical, Veterinary and Life Sciences, University of Glasgow



Wojciech Kuźmierkiewicz, Ph.D.

President of the Board of the Polpharma Scientific Foundation



Joanna Drewla, Ph.D.

CEO of Servier Polska



Prof. Barbara Jereczek-Fossa

Professor at the University of Milan



Agnieszka Grzybowska-Zalewska

President of the Management Board of Sanofi Sp. z o.o., member of the Council of Employers of the Republic of Poland, President of the Management Board of the Union of Employers of Innovative Pharmaceutical Companies INFARMA,



Daniel Kasprowicz

President of the *Foundation for Madagascar*, Director of the Jan Beyzym Clinic in Madagascar

Publishing leader in the field of medical and health sciences

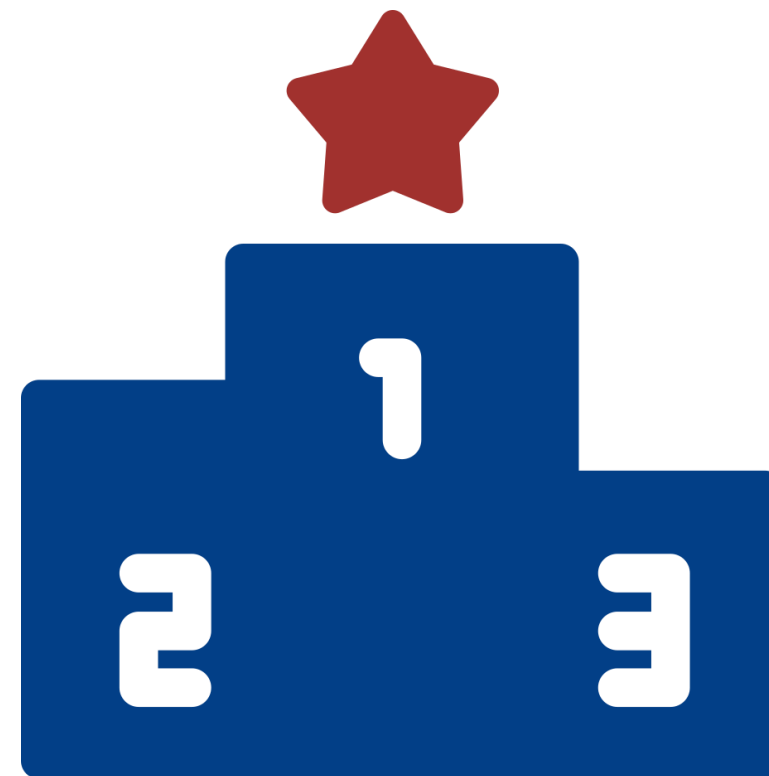
- the Medical University of Gdańsk is the **winner of the ELSEVIER Research Impact Leaders Awards for 2017 & 2018** in the field of health and medical sciences
- publications of the MUG scientists belong to the most frequently cited in prestigious magazines

Publications – data for the first quarter of 2023

- number of publications with IF – 967*
- total IF value – 5988.132*
- number of papers cited – 677 (out of 1297)**
- number of citations – 2414*
- Hirsch index – 16**

* Bibliografia GUMed data base

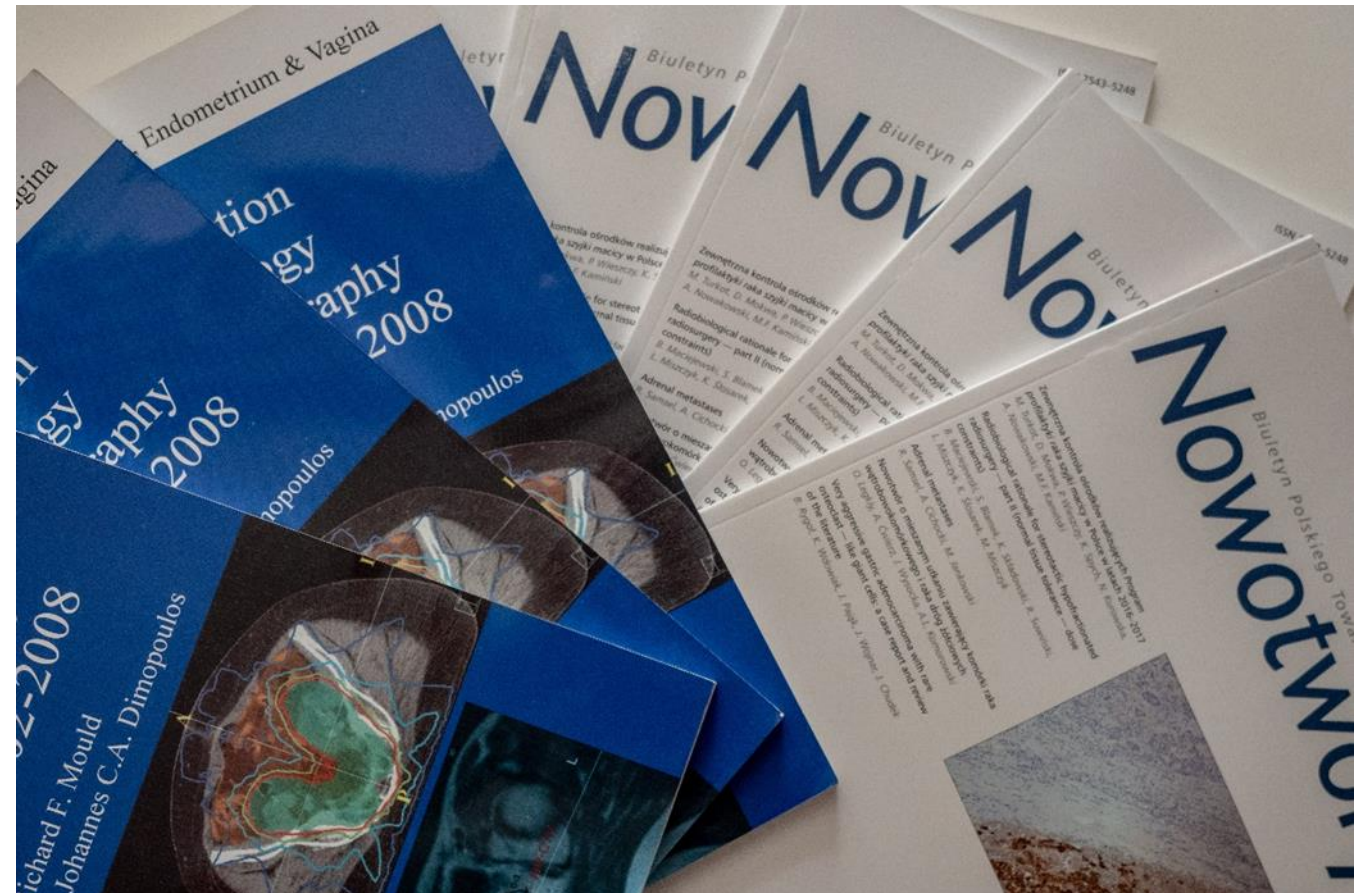
** Scopus

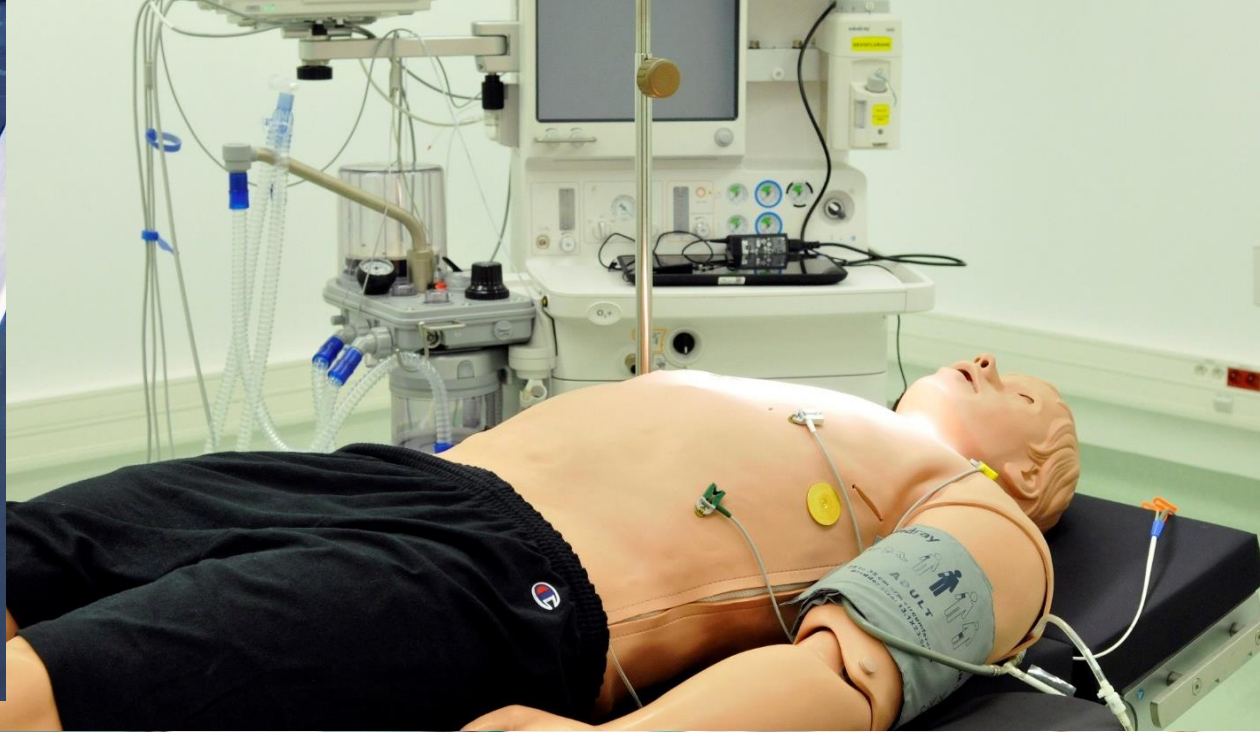


Participation in international publications

31% share in international publications

- oncology > 50%
- cardiology and cardio-vascular medicine > 40%
- biochemistry-genetics-molecular biology > 30%





Experienced research teams

30 leading research teams associated with Priority Research Areas

- **10 teams in the Priority Research Area 1 – Onco**
 - Leader – Department and Clinic of Oncology and Radiotherapy
- **10 teams in the Priority Research Area 2 – Cardio**
 - Leader – Department and Clinic of Cardiology
- **10 teams in the Priority Research Area 3 – Bio**
 - Leader – Department of Biochemistry



Our scientists

- are successful in their research in the fields of **oncology, genetics, testing innovative medicines or using biomaterials**, which are particularly relevant for developing new, advanced bone implants,
- are involved in epidemiology studies, modeling of heart diseases,
- hold high positions in national and international medical associations.



Students' awards

- Karol Steckiewicz and Adrian Perdyan, 6th-year medical students, received **the Minister of Health scholarships** (2021)
- Shan Ali, a 6th year English Division medical student, awarded with the **Wacław Mayzł Medical Laurel** (2021)
- 39 medical and nursing students and nursing received the **Mayor of Gdynia award** for their voluntary work in the COVID-19 drive-thru test centres (2021)
- **Interstudent awards** for the MUG students: **Tetiana Bezpalko**, nursing student – special award (2022), medical student **Marlon Souza Luis** (2021) in the Master studies category, nursing student **Charles Woode** from Ghana in the Bachelor studies category (2019), **Gabrielle Karpinsky** in the Masters studies category (2015)
- laureates in the knowledge competitions: anatomical *Scapula Aurea*, biochemical *Superhelis*, physiological *Wielka Synapsa*, *English in Medical Sciences* national contest



**Study
in POLAND**

Successful student activity



- multiple laurels in the Red Rose Competition more than once
- active participation in national and international symposia
- undertaking number of valuable initiatives for the benefit of not only the region of Pomerania
- popularization of knowledge about health, disease prevention and treatment methods in society
- organization of events focused on prevention, e.g. White Saturdays, Vampiriads, Marrow Hero, Tram Called Desire, Chisel Cancer
- were actively involved in the operation of the COVID-19 drive-thru test centres

MUG researchers in the list of top 2% researchers in the world (2023)*

According to the list, **the most influential scholars from our University**, whose publications are most often cited by other authors, are:

- **Prof. Jacek Jassem** and **Prof. Elżbieta Senkus-Konefka** from the Department of Oncology and Radiotherapy
- **Prof. Piotr Szefer** from the Department of Bromatology
- **Prof. Tomasz Bączek** - Head of the Department of Pharmaceutical Chemistry
- **Prof. Piotr Czauderna** - Head of the Department and Clinic of Surgery and Urology of Children and Adolescents
- **Prof. Bolesław Rutkowski** - retired Head of the Department of Nephrology, Transplantology and Internal Diseases
- **Prof. Zbigniew Kmieć** - Head of the Department of Histology
- **Prof. Wojciech Biernat** - Head of the Department of Pathomorphology
- **Prof. Iwona Inkielewicz-Stępnia**k - Head of the Department of Pharmaceutical Pathophysiology
- **Prof. Godefridus Peters** from the Department of Biochemistry
- **Prof. Michał Żmijewski** from the Department of Histology
- **Prof. Krzysztof Cal** from the Department of Applied Pharmacy
- **dr. hab. Piotr Bandoz** from the Department of Prevention and Didactics
- late **Prof. Zdzisław Brzozowski** – Head of the Department of Chemical Technology of Medicinal Products of the Medical Academy in Gdańsk in the years 1971-1999, rector of the Academy in the years 1972-1981
- late **Prof. Franciszek Sączewski**
- late **Prof. Roman Kaliszan**

The list also includes a graduate of our University - dr hab. Krzysztof Mrózek, employed at the Ohio State University.

3P-Medicine – Preventive, Personalized, Precision

- MUG, in association with the University of Uppsala, **received nearly 40 million PLN (over €9 M)** from the Foundation for Polish Science for establishing of a new centre specializing in research on genetic aberrations acquired throughout life as risk factors for cancer and other diseases
- project leaders – Prof. Arkadiusz Piotrowski (MUG) and Prof. Jan Dumański (Uppsala University)



Scientific awards

Prize of the Foundation for Polish Science for the MUG Professors:

R. Kaliszan (2003), J. Limon (2004) and P. Trzonkowski (2017)

The Johannes Hevelius Scientific Award of the City of Gdańsk for the MUG's Professors:

S. Angielski (1990), O. Narkiewicz (1994), M. Żydowo (1998), R. Kaliszan (2000), B. Rutkowski (2004), J. Limon (2006), M. Łatoszek (2008), J. Jassem (2009), A. Szutowicz (2011), K. Narkiewicz (2014), M. Woźniak (2018), M. Myśliwiec (2020), E. Łojkowska (2021), R.T. Smoleński (2022)

Heine H. Hansen Award:

Prof. R. Dziadziuszko from Department of Oncology and Radiotherapy (2017)

Supertalents in Medicine:

Prof. M. Jaguszewski from the MUG's 1st Department of Cardiology (2018), Martyna Sławińska, Ph.D. from the Department of Dermatology, Venereology and Allergology, Adrian Perdyan, M.D. from the International Research Agenda (2023)

MUG and IFB UG&MUG researchers are the laureates of the **Minister of Education and Science awards** which were presented on February 19th, 2023 during the Gala of Polish Science. Awards were received by:

Prof. Natalia Marek-Trzonkowska, Karolina Piekarska, Ph.D. and Łukasz Rąbalski, Ph.D.

Prof. Jolanta Wierzba was awarded **the Jędrzej Śniadecki Medal** for outstanding scientific, clinical and organisational achievements as well as in the field of popularisation of science and medicine.

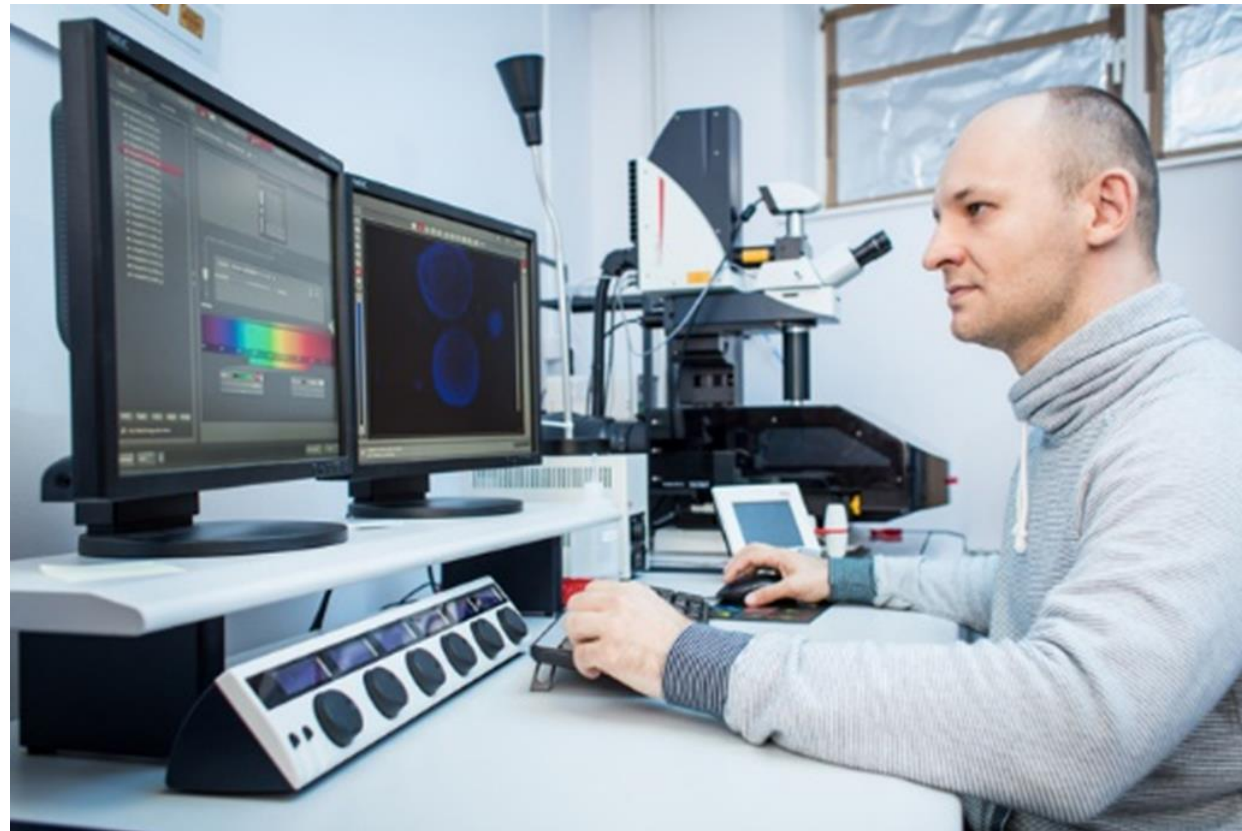


Translational Medicine Centre

- implementation of **innovative interdisciplinary projects** focused on personalized medicine
- in the 1st stage of its development **modern imaging center of the cardiovascular system** with a back-up facility (the so-called co-working space) was opened and thereby, enabling joint work of representatives of various scientific fields and the Technology Transfer Centre
- in subsequent stages, the following units are planned to be established: Laboratory of Imaging, Laboratory of Functional Tests, Department of Clinical Research, Laboratory of Advanced medical analytics, Laboratory of Cellular and Tissue Culture GLP, Laboratory of GMP, Laboratory of Technology and Analysis of the Drug GLP
- the Bioinformatics and Biostatics Laboratory, Laboratory of Bioengineering, Laboratory and Office space for rent will also have its headquarters here

Technology Transfer Centre

- supporting the transfer of knowledge and scientific achievements and their promotion among commercial organizations in the field of commercialization



Phase I Clinical Trials Unit

- the aim of the centre is to conduct scientific research assessing the safety and efficacy of modern therapies in all therapeutic groups, in particular oncological and cardiovascular and cardiovascular at an early stage of development



Pediatric Medicine Centre

- **110-bed** PMC will focus on daycare and ambulatory care
- the state-of-the-art facility will be **directly linked to the rest of the hospital infrastructure** through connectors, which will allow for more efficient patient transport and supply logistics
- the building will be equipped with modern teletechnical solutions facilitating the care of patients and guaranteeing full safety of staff and visitors

Total investment cost:

- PLN 298.5 million – financed from the state budget
- PLN 1.4 million – own funds

299 900 000 PLN



University Dental Centre

- new seat of **all MUG dental clinics and didactic units**
- it will be equipped with **91 dental units, 2 x-ray and dental CT machines**, an operating table with anesthetic and surgical columns and an operating lamp
- it will gain 23 new phantoms for students to train and, together with the currently owned 12 units, it will have **35 phantom stations** in 3 exercise rooms
- the implementation of the investment will allow for the **centralization of the MUG's scientific and didactic base and the clinics of the University Dental Centre**
- construction planned for **the years 2023-2025**
 - State of the art building with one underground and three above ground floors, with an internal patio, with a **total usable area of 3,707 m²** and a **volume of over 22,645 m³** will be built
- the facility will be equipped with four elevators and a platform for people with disabilities



Total investment cost

90 210 777 PLN

Supporting clinical trials

- **Medical University of Gdańsk** is one of the largest beneficiaries of the Medical Research Agency competitions aimed at supporting academic clinical trials, acquiring almost **PLN 207 million for research and development activities** in the years 2019-2023.



MEDICAL
RESEARCH
AGENCY

Endoscopic Simulation Centre

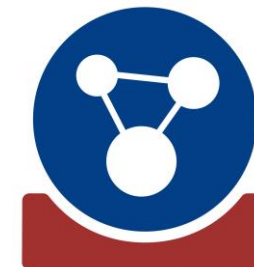
- postgraduate training of medical staff in the use of **endoscopic techniques** in both diagnostics and therapy
- established as a result of cooperation with the **Medical Centre for Postgraduate Education**
- is **multidisciplinary**, provides training in the field of bronchoscopy techniques, lung ultrasound, minimally invasive techniques in gynecology and obstetrics



Multidisciplinary Clinical Research Support Centre MUG (CRSC)



- Over **PLN 10 million** in funding from the Medical Research Agency was awarded to the MUG in partnership with the University Clinical Centre and the University Dental Centre of the MUG for the creation of the **Clinical Research Support Centre (CRSC)**. **The opening took place on March 3, 2023.**
- Within the Centre, the **Academic CRO** was created to handle non-commercial academic research conducted by the MUG, an ultimately also to cooperate with other entities acting as sponsors in non-commercial and commercial clinical trials.
- The Centre takes part in **enterprises integrating University's scientific and clinical activity**, participating in activities aimed at improving the quality of clinical projects carried out by the MUG employees. The CRSC is a unit **supporting all scientific initiatives in the form of clinical trials**, including those implemented with national and international partners.



**Multidisciplinary
Clinical Research
Support Center**

MUG • UCC • UDC

Research cooperation

- with highly renowned scientific institutions on an international scale, e.g.
 - **oncology** – University of Uppsala (prof. Jan Dumański/MAB)
 - **cardiology and cardiovascular medicine** – Utrecht University (prof. Paul F. Grundeman), University of Glasgow (Prof. Anna Dominiczak)
- with renowned research groups and leading institutions in the field of oncology worldwide: European Organisation for Research and Treatment of Cancer, Central and East European Oncology Group, European Thoracic Oncology Platform, National Cancer Institute, University School of Medicine Indianapolis, Colorado University Cancer Center, Vienna Cancer Center
- the MUG takes part in the EIT Health programme; the RIS Hub status

Partners

- the Medical University of Gdańsk is a co-founding member of **the Baltic Sea Region University Network**, coordinated by the University of Turku
- the MUG actively participates in the work of **ScanBalt**, a regional organization whose aim is to support the initiatives for the development of technology transfer, in the fields of medicine and biotechnology, in the Baltic Sea region
- main international partners: **USA** (227 institutions), **Europe**: Charles University (Czech Republic), University of Oslo (Norway), KU Leuven (Belgium), University of Valencia (Spain), University of Oxford (Great Britain), University of Milan (Italy)



Inter-university cooperation



Close cooperation with the largest universities in Pomerania and joint activities of a scientific research and didactic nature

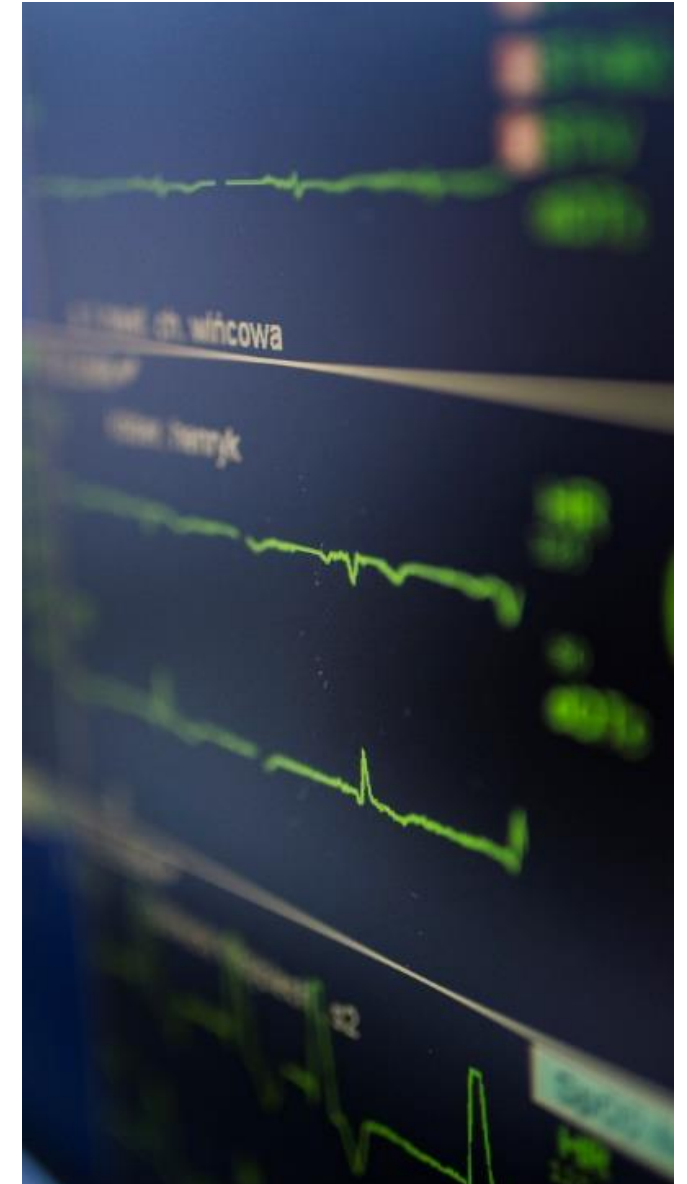


Internationalisation

- the most internationalised university in northern Poland
- **60** contracts under the **Erasmus +** programme
- **foreign accreditations:** Medical Board of California, Medical Council of Thailand, National Committee on Foreign Medical Education and Accreditation, Ministry of Health and Medical Education of the Islamic Republic of Iran, Hashemite Kingdom of Jordan Ministry of Higher Education & Scientific Research, FAIMER – Foundation for Advancement of International Medical Education and Research
- a member of: the Baltic Sea Region University Network, EUPRIO, IRO's Forum, Study in Poland, Integration of Immigrants and Immigrants programme, Study in Pomorskie
- **international rankings:** ARWU, World Federation for Medical Education and the Foundation for Advancement of International Medical Education and Research, CWTS Leiden Ranking, THE Impact Rankings 2022, QS World University Rankings By Subject 2022

Unique clinical activity

- multi-organ transplantation
- multi-profile transplant centre: heart, kidneys, lungs, liver, pancreatic islets, cornea, marrow
- mechanical thrombectomy – the first in Poland for a child
- radiotherapy and oncological chemotherapy
- hyperbaric medicine
- hematology of children and adults
- invasive cardiology and electrocardiology



The MUG hospitals

- patient treatment in of the most modern hospital complexes in Europe
- top-class hospital equipment
- innovative diagnostics and treatment methods
- hospitals: University Clinical Centre, University Centre of Maritime and Tropical Medicine, University Centre of Family Medicine, University Dentistry Centre



University Clinical Centre

The Invasive and Non-Invasive Medicine Centre

UCK Uniwersyteckie Centrum Kliniczne

MEDICAL UNIVERSITY OF GDAŃSK



UCC recognised by the European Reference Networks

In February 2022 the MUG's clinical hospital joined three new European Reference Networks:

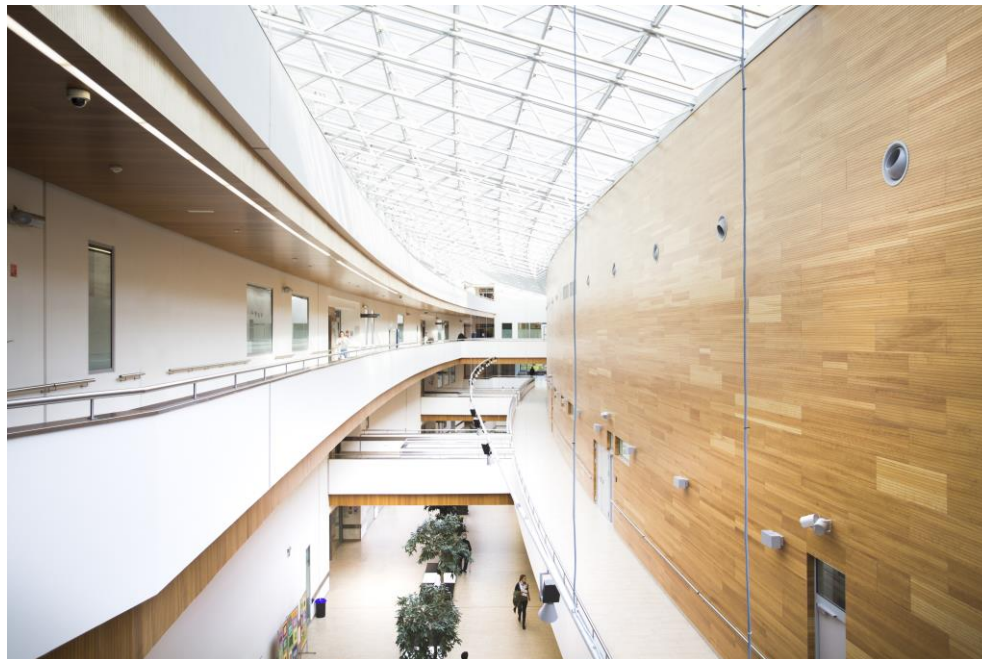
- **EuroBloodNet** (*European Reference Network on Rare Hematological Diseases*),
- **ERN ITHACA** (*European Reference Network on Rare Congenital Malformations and Rare Intellectual Disability*),
- **ERN ERNICA** (*European Reference Network for rare Inherited and Congenital (digestive and gastrointestinal) Anomalies*).

University Clinical Centre also cooperates with:

- **ERKNet** (*European Rare Kidney Diseases Reference Network*),
- **PaedCan-ERN** (*European Reference Network for Paediatric Cancer – haemato-oncology*),
- **ERN eUROGEN** (*European Reference Network on Rare and Complex Urogenital Diseases and Conditions*).

World's Best Hospitals 2021

- In the latest edition of **the World's Best Hospitals** ranking the **University Clinical Centre** was **ranked 2nd** in the best hospital in Poland category.
- www.newsweek.com/best-hospitals-2021/poland



Unique treatment facilities



- AO Spine Centre – first in Central-Eastern Europe
- Centre for Treatment of Obesity and Metabolic Diseases
- Children's Intensive Therapy Department
- Early Phase Clinical Research Centre
- Rare Diseases Centre
- Familiar Hypercholesterolemia Unit
- coordinated treatment – Breast Cancer Unit, Prostate Unit
- Supraregional Centre for the Treatment of Drug-Resistant Epilepsy
- Milk Bank
- Peritoneal Cancer Treatment Centre
- Thyroid Cancer Treatment Centre

Mutual cooperation – the MUG & UCC

The immediate vicinity of the MUG and the University Clinical Centre favors mutual cooperation and implementation of innovative scientific research and implementation projects.



University Centre of Maritime and Tropical Medicin

- an **independent clinical hospital** founded by the MUG
- hospitalizes **over 4000 patients** annually in 4 clinics:
 - Tropical and Parasitic Diseases
 - Cardiology and Internal Diseases
 - Occupational and Internal Diseases
 - Maritime Medicine and Maritime Rescue
- conducts clinical activity in the fields of heart, vascular and infectious diseases, travel and work medicine
- has a highly specialised Diagnostic Imaging Department and endoscopic and diagnostic laboratories
- supervises outpatient rehabilitation activities in terms of cardiology and hyperbaric treatments:
- for the purposes of fighting the COVID-19 pandemic on July 1st 2020 it has expanded its diagnostic facilities with a modern Computed Tomography Laboratory and in August set up new modular clinical buildings. The construction works finished in December 2021.



Sustainable and green

As a modern academic and educational centre, the Medical University of Gdańsk places great importance on building a sustainable and eco-friendly environment and infrastructure:

Hence, the MUG:

- signed the Declaration of Social Responsibility of the University in 2019
- advocates for the ideals of sustainable development and social responsibility in educational programmes, scientific research, and the managerial and organisational solutions of the university
- coordinates and promotes campaigns such as “Culture of Respect” and “Different and Equal” promoting values such as kindness, respect, equality, tolerance, trust, and understanding
- pursues the sustainable development goals set by the United Nations, placing significant emphasis on environmental care
- according to the Times Education Impact Ranking 2023 the MUG is the best Polish academic centre in terms of implementing the 3rd Sustainable Development Goal – Good Health and Well-being

- actively participates in the *Gdańsk without plastic* campaign
- acts in accordance with the latest regulations on municipal waste segregation
- set up 10 bee hives – spread across 2 municipal apiaries – in its Medicinal Plant Garden, emphasising the importance of protecting bees for both local and global environment
- is the first Pomeranian university to install Saur Neptun Gdańsk (SNG) dispensers for drinking tap water, allowing the students and staff can freely access clean and healthy municipal water – hence, reducing the use of plastic
- launched educational campaigns among its staff on how to efficiently segregate waste, save water, electricity and heating



**Thank you for your
attention.**