



„Excellence Initiative – Research University” Program in Medical University of Gdańsk

Presentation for the International Scientific Council

Prof. Tomasz Bączek

Rector's Representative for the “Excellence Initiative – Research University” Program

Former Vice-Rector for Science of the Medical University of Gdańsk (in years 2012-2016 and 2016-2020)

„Excellence Initiative – Research University” Program



- ✓ New Law on Higher Education and Science (Law 2.0), was adopted on 07.2018
- ✓ „Excellence Initiative – Research University” Program to support universities striving to achieve the status of a research university.
- ✓ In 2019, 20 universities were allowed to participate in the competition; 10 universities were granted a status of Research University along with a subsidy increase by 10%.
- ✓ Medical University of Gdańsk is one of ten universities with the status of Research University.
- ✓ Program will be executed in the years 2020-2026.
- ✓ Universities included in the Program should be able to compete effectively with the best European and global academic centers.



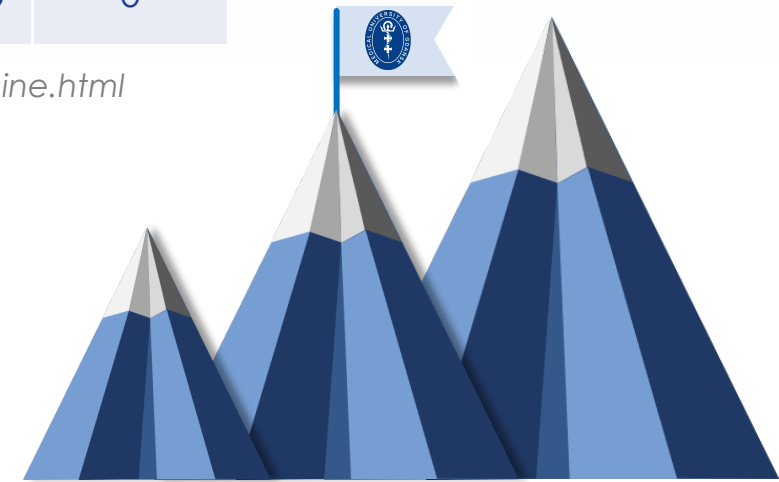
Committed to reach challenging goals

Medical University of Gdańsk vs. partner foreign universities within the Academic Subject „Clinical Medicine” (2019)

UNIVERSITY NAME	WORLD RANK	PUB	CNCI	IC	TOP	AWARD
Medical University of Gdańsk	301-400	15.9	77.4	65.8	14.1	0
University of Glasgow	51-75	29.5	86.6	76.6	31.6	0
Uppsala University	51-75	34.0	82.8	74.6	30.4	0
Utrecht University	51-75	43.9	75.0	72.9	33.5	0

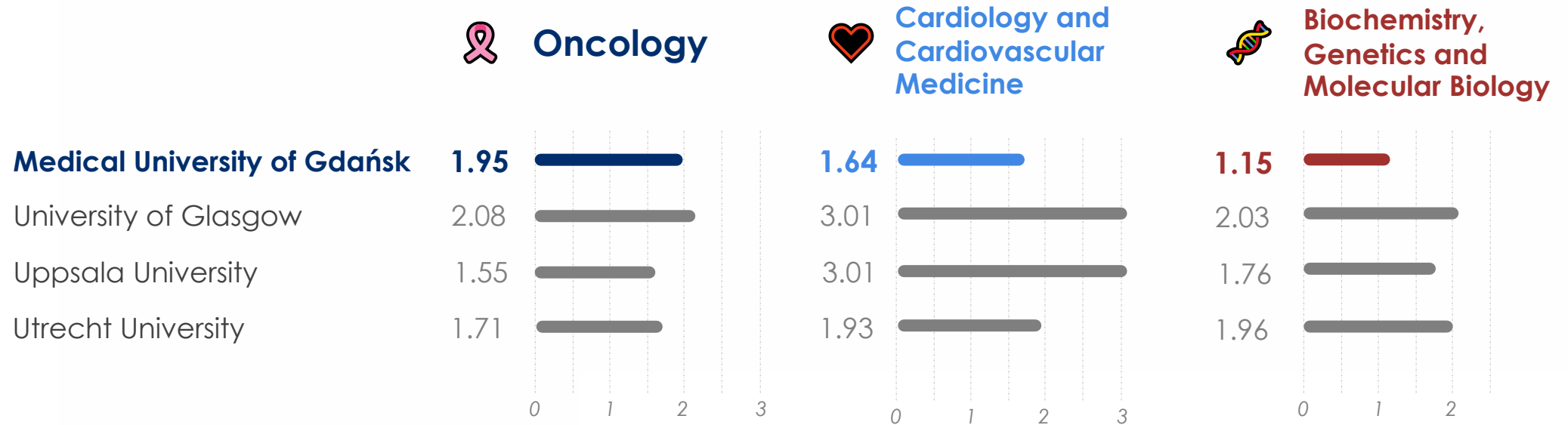
Source: www.shanghairanking.com/Shanghairanking-Subject-Rankings/clinical-medicine.html

**MUG's goal is to reach the rank of
TOP 100 Universities in Clinical Medicine**



Priority Research Areas International Perspective

Medical University of Gdańsk vs. partner foreign universities – FWCI* index (2018)

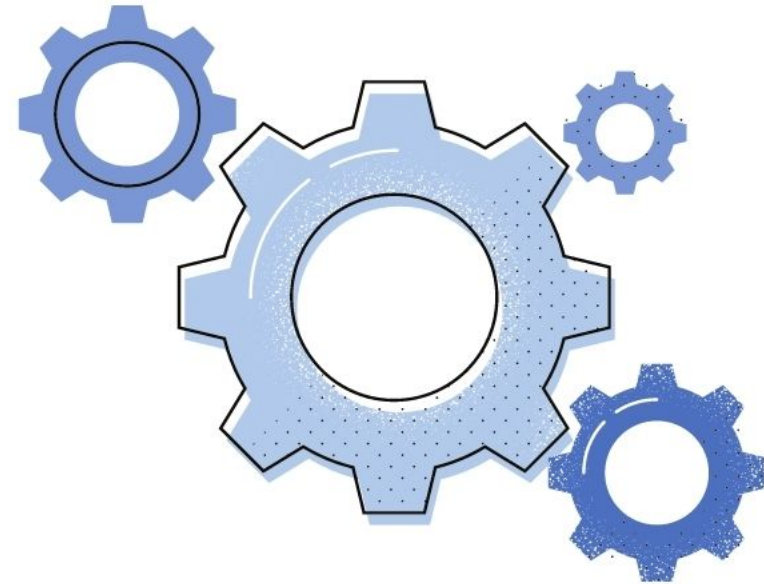
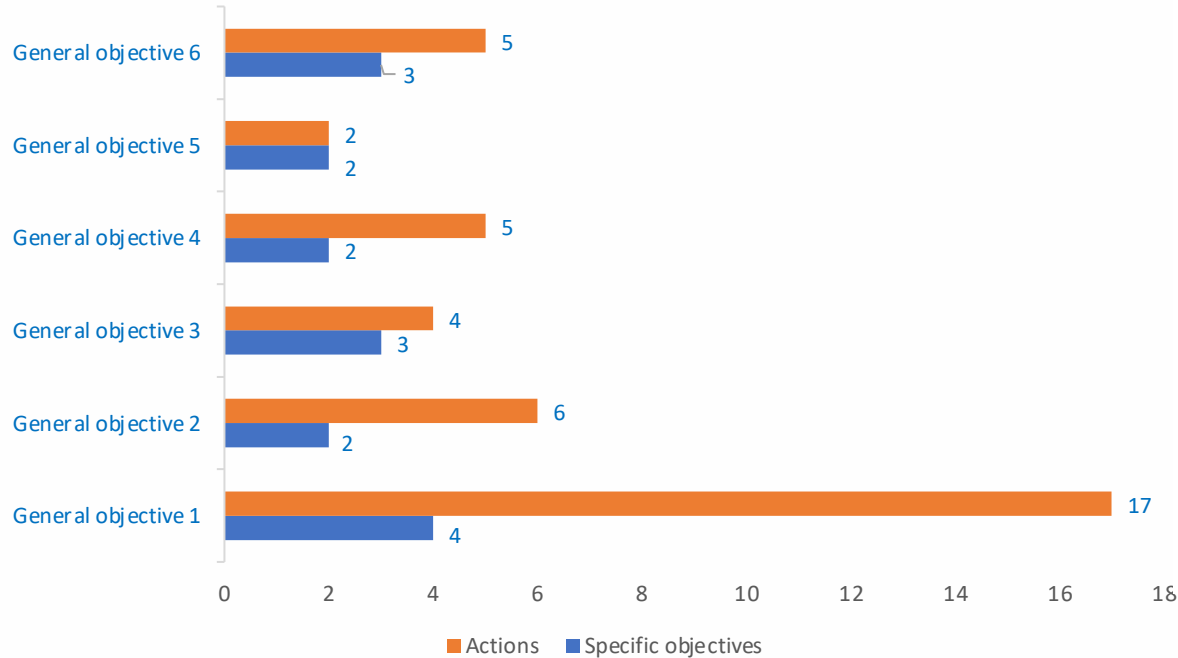
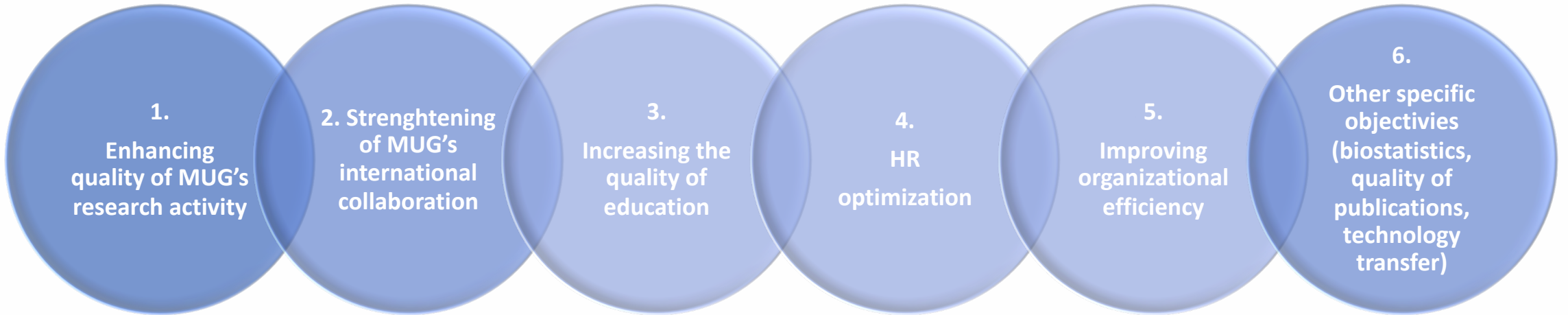


Source: SciVal, Scopus, Elsevier

And we believe it is within our reach

* FWCI – Field-Weighted Citation Impact

Our general objectives



What we already achieved



Development of Supporting structures

- Cardio-Vascular Centre (Non-invasive cardiology)
- Centre for Biostatistics and Bioinformatics
- Centre of Bioanalytics
- Centre for Excellence of Scientific Publications



- Cardio-Vascular Centre (Invasive cardiology)
- Centre for Excellence of Administration
- Laboratory of Genetics
- Laboratory of the Analysis of Single Cancer Cells



Program and calls

- Grant program „Young Creator of Science”
- Recruitment program „Young Creator of Science”
- Recruitment program „Experienced Creator of Science”
- „Proof Reading” Program
- „Open Access” Program
- „Graphic Design” Program



- Grant program „Experienced Creator of Science”
- Grant program „Innovation incubator”
- Grant program „Accelerator of innovation”



Priority Research Areas

- Oncology
- Cardiology and Cardiovascular Medicine
- Biochemistry, Genetics and Molecular Biology



Priority Research Area – Oncology

LEADER

Prof. Jacek Jassem, M.D., Ph.D.

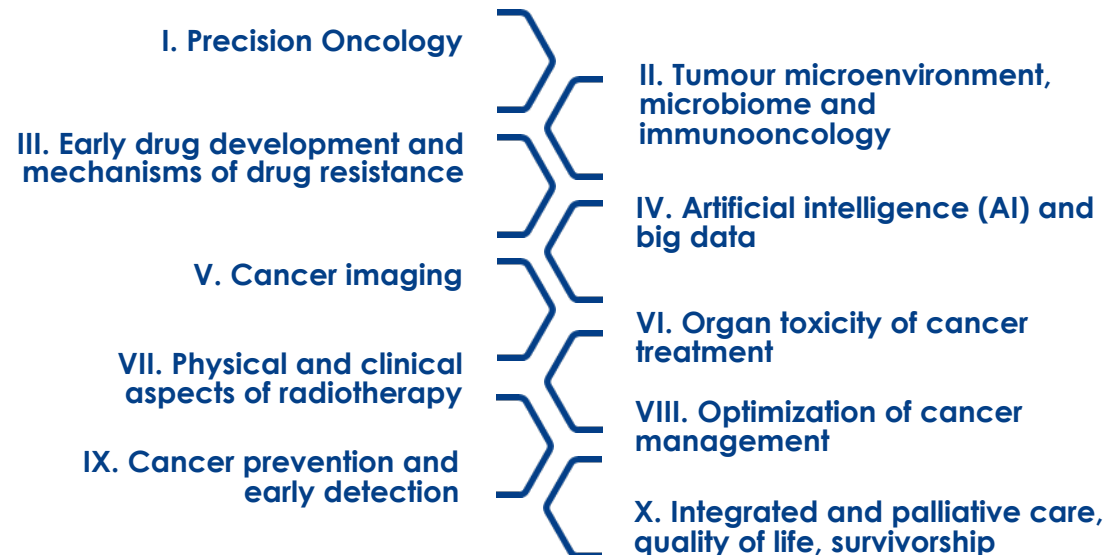
Head of the Department of Oncology & Radiotherapy
President of the Polish Cancer League



Main Research Areas:

clinical oncology, specifically lung cancer and breast cancer, combined modality treatment, molecular oncology

Research Teams:



Priority Research Area – Cardiology and Cardiovascular Medicine

LEADER

Prof. Krzysztof Narkiewicz, M.D., Ph.D.

Head of the Department of Hypertension & Diabetology
President of the Scientific Council of the European Society of Hypertension (2009-2011)

Main Research Areas:

pathogenesis, prevention and treatment of cardiovascular disease



Research Teams:

- I. Epidemiology and registries
- II. Cardiovascular regulation in health and disease
- III. Cardiovascular imaging and three-dimensional printing
- IV. Heart failure and transplantation
- V. Microcirculation and atherosclerosis
- VI. Heart rhythm and sudden cardiac death
- VII. Cardioneurology
- VIII. Sleep medicine
- IX. Neurovascular and stroke medicine
- X. Clinical trials and innovation



Priority Research Area – Biochemistry, Genetics and Molecular Biology

LEADER


Prof. Ryszard Smoleński, M.D., Ph.D
Head of the Department of Biochemistry

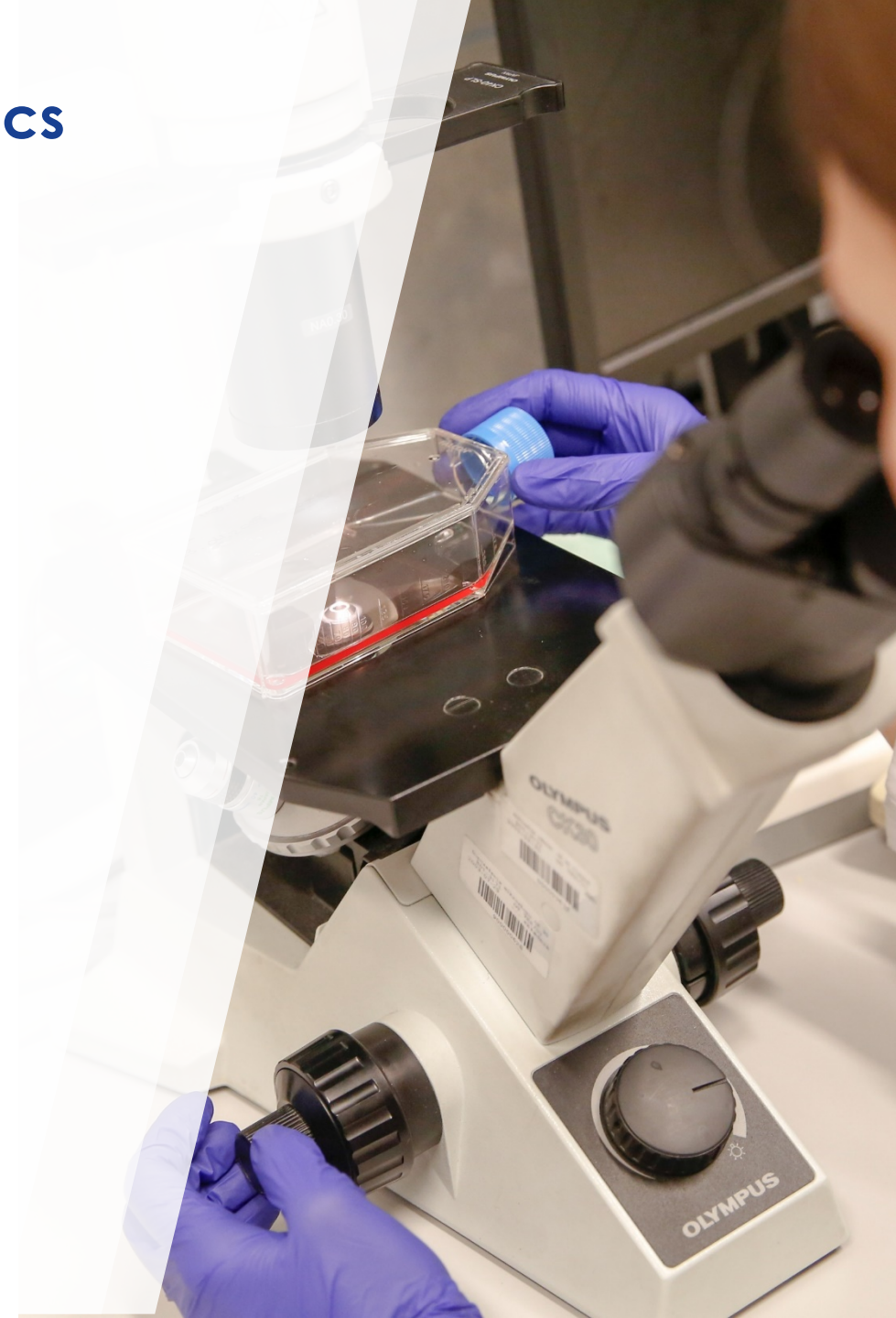
Main Research Areas:

metabolism of nucleotides and cardiac energetics, studies of changes in these processes in pathology and the development of new therapies



Research Teams

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- II. Nucleic Acids Sequencing in analysis of somatic and inherited mutations
 - IV. Imaging of cell pattern and cellular processes
 - VI. Biobank based basic studies on human pathology
 - VIII. Flow cytometry for analysis of cellular pattern and function of the immune system
 - X. Molecular and biochemical methods for study mechanisms of civilization diseases
 - I. Studies on metabolism, therapy and toxicity with mass spectrometry, electron paramagnetic resonance and NMR analysis
 - III. Gene expression pattern analysis
 - V. In vivo studies on mechanism of disease and therapy
 - VII. Metabolic dynamics and oxidative stress pattern analysis
 - IX. Technological developments for bioanalysis and therapy including cell based, 3D and artificial engineered models



International Scientific Council – expectations

- ✓ Verification of the realization of the intended objectives
- ✓ Analysis of the research activity of the Medical University of Gdańsk
- ✓ Auditing research actions and plans for the upcoming years
- ✓ Assessment of on-going research projects through the reference to the key global trends in science
- ✓ Optimization of research approaches and extension of its potential
- ✓ Advisory and consultation platform
- ✓ New international partnerships
- ✓ Knowledge share

Prof. Giuseppe Mancia



Prof. Christoph Zielinski



Prof. Sir Magdi H. Yacoub



Prof. Dame Anna Dominiczak



Prof. Andrea Gallamini



Prof. David R. Goodlett



Prof. Reinhold Kreutz



Thank you for your kind attention.