



Technology Transfer Office

Medical University of Gdańsk

Collaboration in international projects

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Who We Are

The bridge between science and the market

TTO GUMed at a Glance

Our Mission

Supporting the implementation and commercialisation of scientific research results and development results.

We operate at the intersection of science and business — building collaboration between researchers and entrepreneurs, actively participating in regional and national innovation ecosystems.

2018

Year established

Technology Transfer Office

Part of

Fahrenheit Universities

UG · PG · GUMed

Member of

EIT Health Network

Europe's largest health innovation initiative

Alliance

ACE²-EU

European university alliance



What We Do

From lab discovery to market reality

Core Services

IP Protection & Management

Supporting patent applications, know-how protection and IP strategy for researchers.

Technology Commercialization

Step-by-step guidance through the commercialization path — from TRL assessment to market.

Licensing & Technology Sales

Negotiating licence terms, selling research results, and formalising researcher–industry contacts.

Industry Collaboration

Connecting businesses with GUMed researchers for R&D projects, services and expert opinions.

Innovation Promotion and Entrepreneurship

Presenting GUMed technology offers at national and international trade fairs and innovation events. Providing entrepreneurship activities for students, PhD students and scientists

R&D Project Funding Support

Building project consortia for NCBIr, FNP, Horizon Europe, and Interreg funding programmes.



How We Do It

Turning research into real-world impact

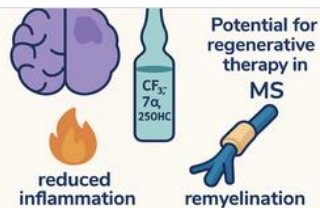
The Commercialisation Pathway



Two routes to market: Licensing / technology sale · Spin-off or spin-out company via Centrum Innowacji Medycznych (CMI)



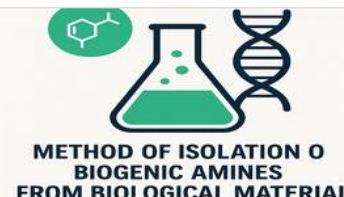
MUG Invention Database



The use of 7α,25-dihydroxycholesterol oxysterol in the treatment and modulation of autoimmune, inflammatory and demyelinating diseases of the central nervous system



Application for early detection of lung cancer recurrence in Polish population



Method of isolation of biogenic amines from biological material



Method for monitoring amino acid levels in biological material



Application to support the treatment of children with functional disorders of the gastrointestinal tract

OVARIAN CANCER DIAGNOSTICS



Spin-offs from GUMed Research

POLTREG S.A.

2015

Type 1 Diabetes Vaccine

Commercialising a Treg-cell based vaccine for type 1 diabetes in children. Patents filed in Poland, Europe and the USA.



<https://poltreg.bio/pl/o-nas/#centrum-badawczo-rozwojowe>

DetoxedHome sp. z o.o.

2016

Reducing civilisation diseases

Innovative method to reduce the risk of infertility, metabolic disorders and hormone-dependent cancers through environmental risk reduction.

gp4research sp. z o.o.

2018

Patient-centred clinical trials

Addressing pharmaceutical industry needs with a patient-first approach, improving recruitment, retention and cost-efficiency.

CBzF sp. z o.o.

2023

Functional Food Innovation

Certification, production and export of functional foods — improving public health through personalised, precision-diagnostics-based dietetics.

Entrepreneurship Activities

EIT Health Innovation Days and Morning Health Talks

Hackathon for students and PhD Students



Meetings with business representatives – healthcare challenges



Health Innovation and Connect Day conference

Event for intersectoral collaboration in creating modern solutions for medicine and the healthcare system



Intellectual Property and Innovation Days

Events for academic community – technology transfer and IP protection topics



ACE2-EU Traineeship Week

Entrepreneurship training and innovation ecosystem diving





International and national projects

Real impact on the healthcare and entrepreneurial mindset

INCUBATORS PROJECTS – FUNDED BY THE MINISTRY OF SCIENCE AND HIGHER EDUCATION

INCUBATOR + (2018 - 2019)

INCUBATOR 2.0 (2019 - 2020)

INCUBATOR 4.0 (2020 - 2023)

DEVELOPMENT INCUBATOR (2024-2028)

The total funding obtained by the Consortium exceeds PLN 17 million. TTO received the maximum funding available per Partner, amounting to PLN 3 million. TTO MUG implements the “Development Incubator” tasks as part of a Consortium consisting of: Gdańsk University of Technology (Leader), University of Gdańsk, Poznań University of Technology, and special-purpose companies: Univentum Labs Ltd. and Excento Ltd. The implementation of the “Development Incubator” initiative marks yet another—fourth—incubation project acquired by the TTO to effectively strengthen and advance the transfer of technologies developed at the university. Since 2018, the CTT team has secured nearly PLN 5 million for pre-implementation activities, funding 30 projects led by academic staff of our university.

S4B SCIENCE / 4 BUSINESS
NAUKA / DLA BIZNESU

www.mug.edu.pl

GUMed INCUBATOR – Excellence Initiative – Research University



About the Program

The Medical University of Gdańsk – as the only medical university in the country – has been selected to the elite group of the top 10 best Polish universities awarded in the prestigious competition of the Ministry of Science and Higher Education *Excellence Initiative – Research University*. According to the project, MUG intends to intensify its scientific activity in three priority research areas, which include: oncology, cardiology and cardiovascular medicine as well as biochemistry, genetics and molecular biology. These areas were selected through an in-depth analysis of scientific and research potential prepared by external experts. The used methodology took into account, among others: industry rankings, cooperation with renowned research centers, the number of prestigious international publications, the quality and effectiveness of research, the level of internationalization and modern research infrastructure. Such a profiled range of activities will realistically provide the MUG with the greatest opportunities to increase the impact of its scientific activities in the development of global science.

MUG'S PRIORITY RESEARCH AREAS



TTO was responsible for the the calls for projects opened to MUG employees and participants of full-time doctoral studies at MUG and participants of the First Doctoral School of MUG, who conduct scientific research displaying implementation potential at the University. Projects with a degree of technological maturity in the range of TRL IV to TRL VI (prototype phase) of the Technology Readiness Level scale were eligible to receive financial support.

EIT HEALTH SCI FI *From Scientists to Innovators for Industry*

- 4 editions of SCI FI course (2021-2024)
- 31 persons transfer from academia to industry
- 21 persons change position within academia
- 2nd Emerging Europe Award - Future-proof Education Initiative of the Year

The graphic features the EIT Health logo and the European Union flag with the text 'Co-funded by the European Union'. Below this, the title 'SCI FI' is prominently displayed, followed by the subtitle 'From Scientists to Innovators for Industry'. A central image shows a diverse group of scientists in a lab setting, wearing safety goggles and pointing towards the camera. Below the image, three icons represent the program's features: a lightbulb for 'Challenge-based, blended learning', a gear with a star for 'Top-notch experts from industry, business and academia', and a double-headed arrow for 'Access to industry, access to best talents'.



<https://eithealth.eu/news-article/award-for-eit-healths-sci-fi-programme/>



EIT HIGHER EDUCATION INITIATIVE - InnovAId

EIT HEI Initiative

Innovation Capacity Building
for Higher Education



Training handbook on innovation and
entrepreneurship in digital health

Partners on this project

Full Partners Associated Partners

- Universitair Medisch Centrum Utrecht (Lead Partner)
Netherlands
- AI4MedImaging Medical Solutions SA
Portugal
- Escola Superior de Enfermagem de Lisboa
Portugal
- Hogeschool PXL
Belgium
- Medical University of Gdansk
Poland
- National Technical University of Ukraine "Igor Sikorsky"
Ukraine
- Utrechtinc C.V.
Netherlands



<https://eit-hei.eu/funded-projects/explorer/innovaid/>

<https://tto.mug.edu.pl/2024/07/19/digital-health-innovation-and-entrepreneurship-handbook/>

www.mug.edu.pl



Innovation Ecosystem

Stronger together — GUMed in the Pomeranian & European innovation network

Our Network of Partners

Fahrenheit
Universities
(UG, PG, GUMed)

EIT Health
European Network

Pomerania S&T Park
(PPNT Gdynia)

**Gdańsk Science &
Technology Park**

**Technology Transfer
Office**

NCBiR / FNP
Horizon Europe
Interreg/Ministry of Science
& Higher Education

PACTT
Polish Agreement of Academic
Technology Transfer Centres

ARP - Pomerania
Development Agency

**Marshal's Office of the
Pomeranian Voivodeship**

Fahrenheit Universities – MUG, PG, UG

Since 2020

The Fahrenheit Union of Universities in Gdańsk was established upon the joint request of the Rectors of the Medical University of Gdańsk, Gdańsk University of Technology and the University of Gdańsk.

International impact

One of the Union's strategic tasks is to pursue a common promotion and ranking policy, especially on the international arena, as well as express opinions and represent the common interests before state and local government administration and in relation to legislative initiatives. The Union is also supposed to enhance the publishing activities of the Gdańsk Tech, UG and MUG.

Focus on

The most important task of the Union is the best possible use of the resources and potential of the three universities forming the Union. Its activities focus on the development of solutions supporting joint research and development work, as well as the recommendations pertaining to the consolidation or creation of new, intercollegiate doctoral schools.

Common history

The Medical University of Gdańsk, Gdańsk University of Technology and University of Gdańsk have been undertaking joint initiatives in the scientific, educational and organisational areas for many years. Owing to the creation of the Union of Universities, it is possible to enhance current cooperation and create in Pomerania one of the strongest academic centres in Poland.

PACTT – Polish Association of Centers for Technology Transfer

Membership

The MUG TTO participates in the activities of PACTT, the Polish network of academic technology transfer centers supporting collaboration between science and business. PACTT brings together over 90 academic technology transfer centers in Poland.

National impact

TTO contributed to the exchange of best practices in commercialization, intellectual property management, and university-business collaboration, and participated in national discussions on strengthening the impact of academic technology transfer in Poland.

Engagement

The Acting Director of TTO served as a Coordination Council Member of the PACTT from 2022 to 2024. This involvement reflects MUG's active contribution to the development of the national technology transfer community and strengthening ties between research organizations and industry.

Networking

MUG's active contribution to the development of the national technology transfer community and strengthening ties between research organizations and industry.

The Ministry of Science and Higher Education - Team for Strengthening the Transfer of Research Results

Engagement

The TTOs Acting director is a member of the team established to develop systemic recommendations for improving commercialization pathways in Poland. In this role, she contributes to work on reforms intended for implementation at the ministry level, including regulatory, organizational and evaluation-related changes designed to strengthen knowledge and technology transfer across the higher education and science system.

Cooperation with industry

The team contributes to recommendations designed to enhance science-business cooperation and support collaboration with large enterprises, SMEs and start-ups.

Impact

The team has already proposed ministerial changes to the research evaluation model, such as stronger recognition of commercialized patents, new rules for counting commercialization income, separate scoring for licensing and R&D services, and a more practical assessment of socio-economic impact.

Policy change

Involvement highlights active participation in shaping national policy solutions that aim to better align scientific activity with innovation and economic application.

European Institute of Innovation and Technology - EIT Health member

RIS HUB

Since 2018, the Medical University of Gdańsk has acted as the coordinating center of the Regional Innovation Programme initiative within the EIT Health project, which the university implements through the Technology Transfer Office.

European Network

EIT Health is a vast, vibrant community of world-leading health innovators backed by the European Union.

Membership

Since 2021, the Medical University of Gdansk is an Associate Partner of the European Institute of Innovation and Technology in Health and Healthcare.

Matchmaking

Becoming a Partner in EIT Health opened up additional development opportunities for applying to innovative research projects carried out in international teams.



Why It Matters to You

Potential cooperation

What TTO Means for International and National Partnerships

IP and Commercialization Awareness

TTO supports founders in IP protection, commercialization and creating spin-offs from academic research.

Experience in entrepreneurship

TTO organizes entrepreneurial events, hackathons, workshops and meetings with business representatives for researchers, PhD students and students.

Strong partnerships in innovation ecosystem

TTO continuously cooperates with many regional stakeholders like Science and Technology Parks, local authorities and agencies, companies and NGOs, who can be a part of international consortium as well. TTO also collaborates in the international dimension with EIT Health and within ACE²-EU Alliance.

Educating academic community

TTO experts are conducting academic classes with PhD students and students in order to spread awareness about IP, commercialization, business models and technology transfer.



Key Takeaways

1

TTO is the bridge between university research and real-world application.

2

We protect IP, support commercialisation, and create spin-off companies.

3

We present technology offers at national and international trade fairs and innovation events.

4

You have access to this ecosystem — through building international consortia for EU funded projects.