



Ministry of Science and Higher Education
Republic of Poland

Co-financed by the project of Minister of Science and Higher Education "Industry Contact Points for the Horizon Europe Research and Innovation Framework Programme"



Industry
Contact
Point
Medical
Technologies
and Health



Industry
Contact
Point
Digital
Transformation



Industry
Contact
Point
Industry 4.0

LOWER
SILESIA



DOLNY
ŚLĄSK

STUDY VISIT & MATCHMAKING

Digital hospital

Please wait



Regional Specialist Hospital in Wrocław Research & Development Centre (RSH)

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SINCE:

15th June 1984

MISSION:

"The hospital of the future for the residents of Wrocław and Lower Silesia"

VISION:

"Innovative Medicine Development"

INNOVATIVE MEDICINE DEVELOPMENT

- **1984** – Opening of the first Computer Tomography and Magnetic Resonance Center in Lower Silesia and Opole Province (**1993**)
- **2006** – Opening of the first Research and Development Center in Poland at a non-academic hospital
- **2008-2015** – The first interdisciplinary key project integrating the medical and scientific communities – WROVASC
- **2010** – Purchase of the first da Vinci surgical robot in Poland
- **2016** – Implantation of the world's first biological vascular prosthesis – HUMACYTE
- **2019** – Opening of the Cancer Prevention, Diagnostics, and Therapy Center

STAFF AND TRAINING

10 professors
73 PhDs
259 medical specialists
157 resident
55 interns

ROBOTIC SURGERY

- **16** years of efforts in robotic surgery
- Over **1100** procedures performed
- **3** reimbursed indications: prostate cancer, endometrial cancer, and colorectal cancer

CLINICAL TRIALS

Over **250** clinical trials, from Phase I to IV

RESEARCH ACTIVITY

- Over **100** completed projects
- More than **2000** publications
- Over **4000** conference presentations

Hospital at a Glance

22 wards

29 ambulatory care units

626 hospital beds

1782 staff members



OVER **100 000**
births

1300
twins

12
triplets

1
quadruplet (in 2021)

In 2025:

49 470 in-patients

36 530 services provided by the Emergency Department and urgent care specialties

16 720 surgeries performed

108 227 specialist consultations



"The Miracle"

The mother was in a vegetative state for 5 months following a severe stroke

Since the beginning:

1.1M patients

3.4M specialist consultations

310k surgeries

Active International & National Portfolio



PROJECT	FOCUS AREA	PERIOD	ROLE	BUDGET
RESET Medical Research Agency (MRA)	Development and implementation of the RESET perioperative care pathway for oncology patients	2025-2031	LEADER	42.9M PLN (€10.0M) RSH: 17.0M PLN (€3.9M)
UNICA EU4Health Funding Programme	AI-driven cancer imaging, data sharing & validation	2025-2029	PARTNER	21.1M PLN (€5.0M) RSH: 0.8M PLN (€188k)
CWBKiMT Medical Research Agency (MRA, funded by the Polish NRRP)	Development of a Clinical Research Support Centre and Translational Medicine	2024-2026	PARTNER	21.1M PLN (€5.0M) RSH: 4.3M PLN (€1.0M)
OPUS 26 National Science Centre (NSC)	Immune profiling and gut microbiota analysis in HPV-dependent recurrent respiratory papillomatosis (RRP)	2024-2028	LEADER	2.8M PLN (€657k) RSH: 1.5M PLN (€355k)
SONATINA 8 National Science Centre (NSC)	Phageome and gut microbiota profiling in patients undergoing radical cystectomy	2024-2027	SOLE	1.2M PLN (€280k)
PATHOLOGY DEPARTMENT Polish National Recovery and Resilience Plan (NRRP)	Advanced molecular pathology and oncology diagnostics	2025-2026	SOLE	80.0M PLN (€18.6M)



Our Research Support Assets



Our Research Support infrastructure delivers direct clinical translation pipelines:

- **Exceptional collaboration potential:** High collaboration potential driven by 22 specialized hospital departments and 29 ambulatory care units, making us a highly versatile partner across a wide range of therapeutic indications.
- **Scientific Laboratory:** Advanced scientific laboratory (approx. 650 m²) featuring specialized units for microbiology, molecular biology, cell culture, and a biological material repository.
- **Clinical Research and Translational Medicine Support Centre (CWBKiMT):** established through a Medical Research Agency project to conduct non-commercial clinical trials.
- **Translational Infrastructure:** Low-temperature -80°C biobanking with autonomous safety monitoring system and high-speed molecular centrifuges.
- **Certified Teams:** GCP-certified investigators supporting trial planning, IP protection schemes, legal titles, and medical experiment setups.
- **Administrative Governance:** Specialized procurement, financial, and legal units ensuring strict validation of Horizon Europe guidelines.



Calls of Interest



CLUSTER 1: HEALTH

HORIZON-HLTH-2027-01-CARE-02

"Personalised approaches to reduce Adverse Drug Reactions (ADRs) in multi-medication patient populations."

Proposed Contribution: Developing and validating real-world AI mechanism engines to support automated clinical decision-making. Testing predictive models utilizing multi-morbidity patient cohorts.

CLUSTER 4: DIGITAL / CANCER SPACES

Health Digital Data Spaces

"FAIR standardization models and federated machine learning algorithms for oncology databases."

Proposed Contribution: Structuring multi-modal oncological imaging files in accordance with FAIR guidelines. Setting up and hosting secure federated learning nodes (building on our UNICA networks).

Partnership & Cooperation Offer



What We Seek in Consortia

Aiming to join high-stake consortia or co-create custom diagnostic platforms:

Partner Profiles: Academic coordinators specializing in biomedical AI models, digital diagnostics developers, and pharmaceutical startups/SMEs.

Clinical Resources: Access to large-volume validation sites, 23 specialties, and legal compliance structures.



Examples of Partnerships

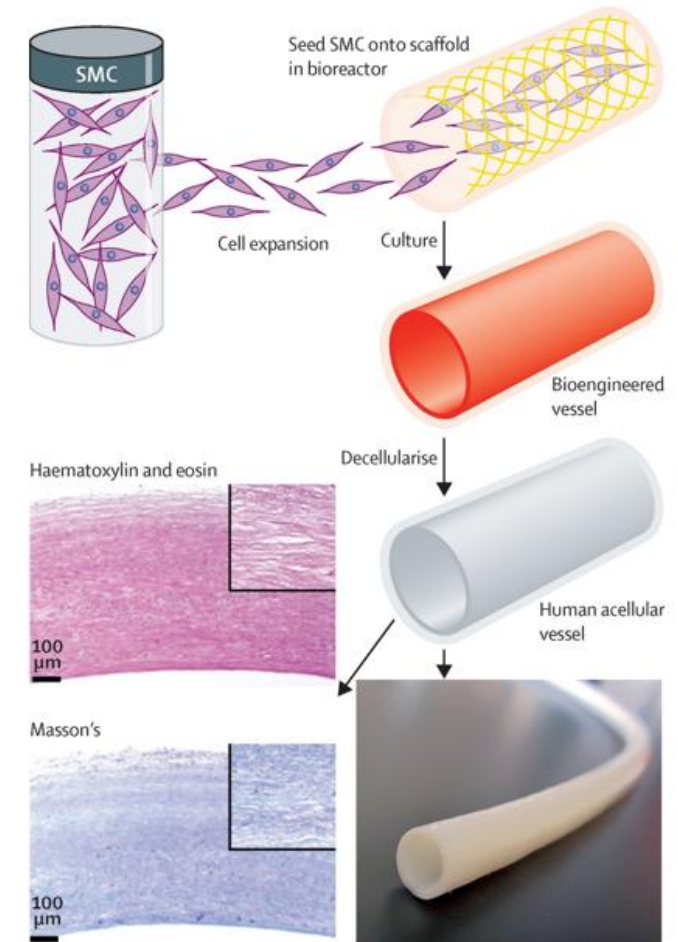
World's first implantation of a biological vascular graft grown entirely outside the human body, in collaboration with leading specialists from Yale and Duke Universities.

The Lancet

Volume 387, Issue 10032, Pages 2026-2034
(May 2016)

Bioengineered human acellular vessels for dialysis access in patients with end-stage renal disease: two phase 2 single-arm trials

Jeffrey H Lawson, MD PhD, Marc H Glickman, MD, Marek Ilzecki, MD PhD, Tomasz Jakimowicz, MD PhD, Andrzej Jaroszynski, MD PhD, Eric K Peden, MD, Alison J Pilgrim, MD PhD, Heather L Prichard, PhD, **Malgorzata Guziewicz, MD PhD**, Stanisław Przywara, MD PhD, Jacek Szmidt, MD PhD, **Jakub Turek, MD**, **Wojciech Witkiewicz, MD PhD**, **Norbert Zapotoczny, MD**, Tomasz Zubilewicz, MD PhD, Dr Laura E Niklason, MD PhD





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Thank you

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