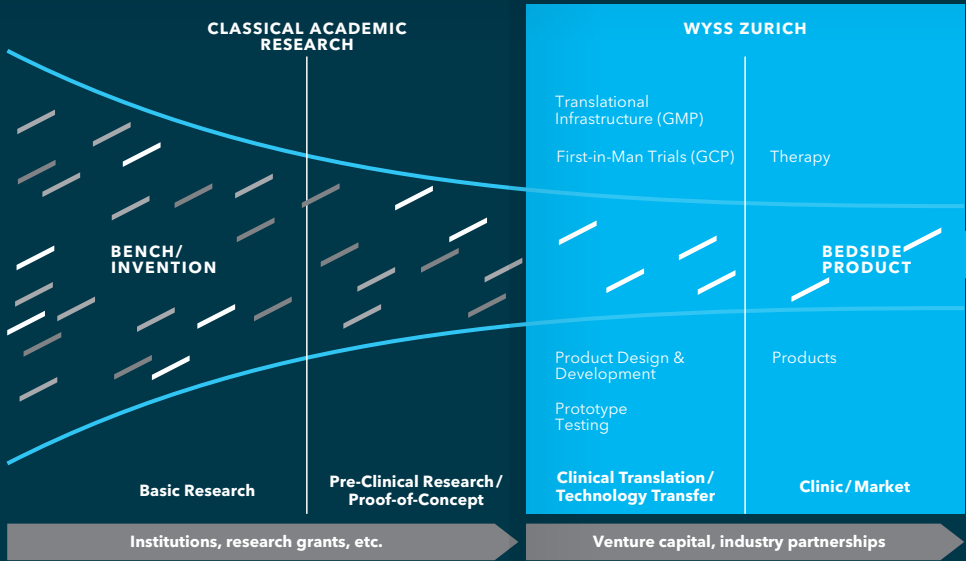


Who we are

The Wyss Zurich Translational Center (Wyss Zurich) is a unique accelerator, embedded within the ETH Zurich and the University of Zurich, that is dedicated to the emerging fields of regenerative medicine, robotics, and medical devices/bionics technologies.

We unite world-leading experts, pooling their knowledge and expertise, to form multi-disciplinary teams.



Our unique all-in-one approach

Wyss Zurich provides its projects with:

Funding to cover personnel expenses and translational research and development, notably early-phase clinical trials

Access to world-class infrastructures, including a dedicated facility to produce compounds that can be used in humans

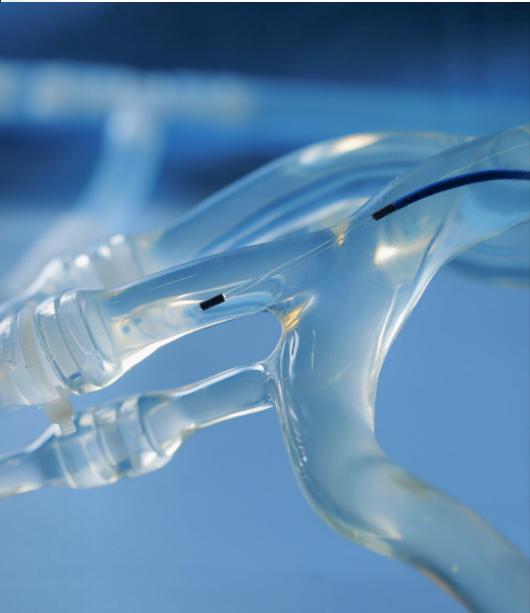
Support in the design, analysis and business strategy of the projects by subject-matter experts

Our mission

We drive the translation of outstanding scientific discoveries into new therapies for patients and breakthrough innovations in the fields of regenerative medicine, robotics, and medical devices/bionics technologies.

Swiss entrepreneur and philanthropist Dr. h.c. mult. Hansjörg Wyss aims to support early-stage, practical applications to overcome the “valley of death.”

Current Wyss Zurich projects



Somagenetix

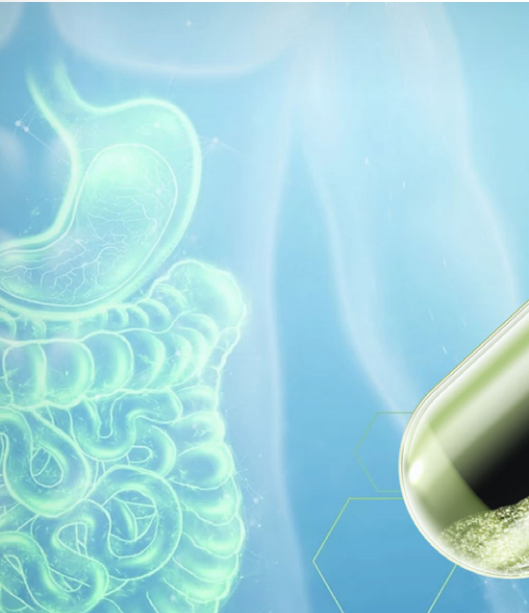
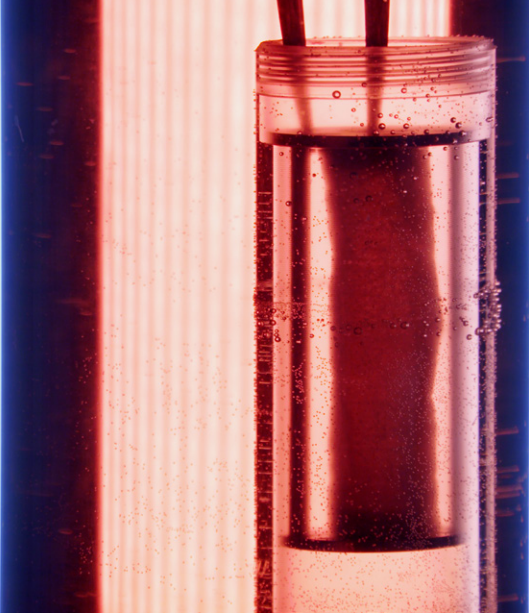
Spin-off company: Somagenetix AG
UZH | Start: 2019, Team: 10

Somagenetix is developing new cell and gene therapy solutions for patients with severe genetic disorders of the immune system. A particular focus is on curing devastating inherited diseases in children, such as chronic granulomatous disease, an immune disorder that can lead to life-threatening infections. The Somagenetix team is currently establishing GMP compliance to prepare a first-in-human clinical trial and aims to extend the platform technology to other genetic diseases of the immune system.

Nanoflex

Spin-off company: Nanoflex Robotics AG
ETH | Start: 2021, Team: 15

Nanoflex aims to develop and launch magnetically controlled neurovascular catheters and corresponding navigation units to facilitate the removal of blood clots for the treatment of ischemic stroke. The team is designing a soft robotic system to delicately and precisely insert a catheter into the brain, allowing clinicians to treat stroke faster and more safely than traditional methods. This novel method will also allow clinicians to control the system remotely, extending access to specialized care. The team is currently optimizing the system and establishing regulatory requirements towards clinical validation of the technology.



LifeMatrix

Spin-off company: LifeMatrix Technologies AG
UZH/ETH | Start: 2015, Team: 11

LifeMatrix is developing a unique bio-engineering technology to grow human replacement tissues in the laboratory as off-the-shelf next-generation implants for the treatment of cardiovascular disease. Focusing on children with congenital heart malformations, LifeMatrix aims to provide novel replacement blood vessels and heart valves that have the potential to grow and regenerate with patients. The team is currently preparing a first-in-human clinical trial.

Phire

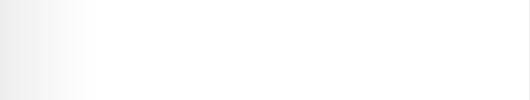
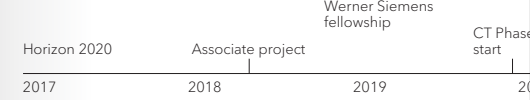
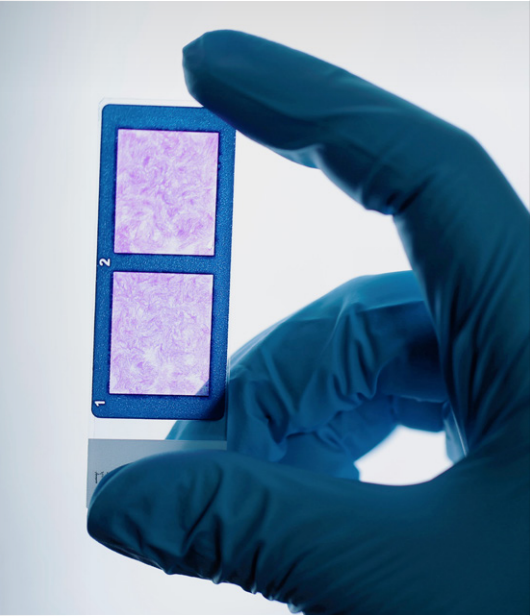
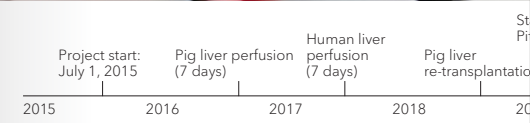
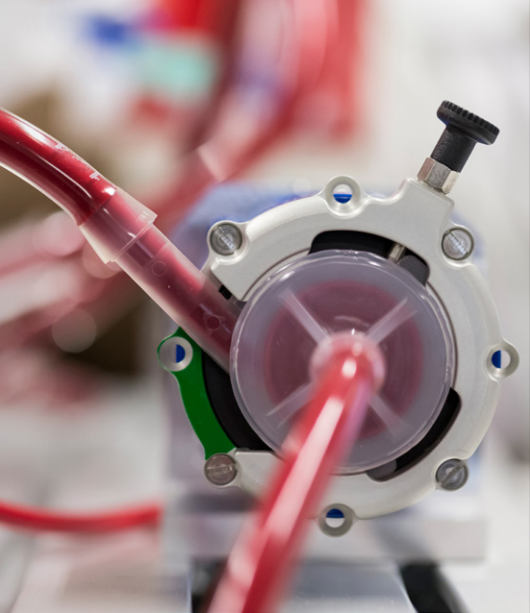
Spin-off company: Phire Therapeutics AG (in foundation)
ETH/UZH | Start: 2021, Team: 4

Phire is developing a novel T-cell engaging antibody to transform current hematopoietic stem cell transplantation practice into an immunologic precision-medicine approach. In life-threatening diseases such as Acute Myeloid Leukemia, Phire's antibody will allow for a more precise immunologic eradication of the existing healthy and diseased stem cells of the blood system, thereby circumventing toxic chemotherapeutic or radiation treatments prior to transplantation. The team is currently in the pre-clinical phase preparing a first-in-human clinical trial.

Recolony

Spin-off company: Recolony AG
UZH | Start: 2022, Team: 4

Recolony focuses on the development of a bacteria-based therapy for colorectal cancer consisting primarily of selected bacteria of the gut microbiota. These bacteria have an enormous influence on the immune system and enhance an immune reaction against tumors. The team is developing orally applied commensal bacteria as a monotherapy with higher safety and tolerability than the standard treatment. Recolony is currently establishing regulatory requirements towards validating the novel approach in the clinic.



Liver4Life

UZH/ETH | Start: 2015, Team: 8

Liver4Life is developing a perfusion technology to preserve and regenerate livers outside of the body. This technology alleviates the donor liver organ shortage and will provide liver cancer patients with a novel treatment option. Liver4Life's first-in-human transplantation of a liver discarded by all Swiss transplant centers was successfully performed following 3 days of preserving and treating the liver on its device. The interdisciplinary team is currently preparing a multicentric clinical trial.

MUVON

Spin-off company: MUVON Therapeutics AG
UZH | Start: 2021, Team: 13

MUVON is establishing a novel personalized treatment modality based on autologous skeletal muscle cells that allow for the regeneration of damaged and degraded muscle tissue. The lead indication of this platform technology is stress urinary incontinence. A Phase I clinical trial to assess the tolerability and safety of the treatment has already been completed. Phase II is in progress. The team is further improving the GMP production process to pave the way for a large multicentric Phase III clinical trial to prove the efficacy of the treatment, which aims to help patients regain control over their lives.

mint & pepper

Outreach project Start: 2018, Team: 7

mint & pepper inspires the next generation, regardless of background or gender, for STEM and life science professions. STEM stands for science, technology, engineering, and mathematics, which are referred to as MINT subjects in German. mint & pepper brings inspiration from groundbreaking research, innovative spirit and ten years of experience in its workshops for school and leisure time, talent program, and collaborations so that the members of the youngest generation can become strong and confident shapers of their own future.

Technology Platforms



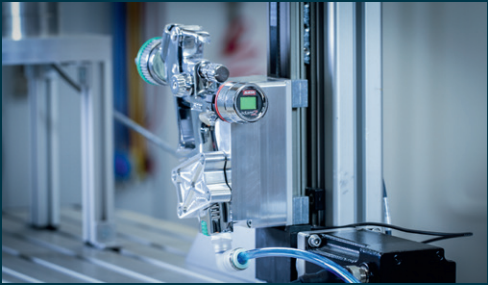
Regenerative Medicine Technologies
Certified state-of-the-art technologies platform to support Wyss Zurich projects to meet regulatory standards.

The Wyss Zurich Regenerative Medicine Technologies Platform is dedicated to manufacturing clinical-grade products that meet the required regulatory standards. The platform is a certified cleanroom facility for Good Manufacturing Practice (GMP), which comprises GMP and Good Distribution Practice (GDP) specialists, expert advisors, and GMP qualified infrastructure.

The platform provides the expertise, guidance, and infrastructure required to respond to the diverse regulatory and technical challenges of Wyss Zurich projects in the field of regenerative medicine.

Support is provided through the following departments, infrastructure, and services:

- › Manufacturing
- › Quality Management
- › Quality Control
- › Hygiene
- › Biobank
- › Good Distribution Practice
- › ISO 13485 for Medical Devices



Robotics Technologies
State-of-the-art technology platform to support Wyss Zurich projects in their transfer to the market.

The translation of technologies into products following the time and resource allocation is a major challenge for startups. The mission of the Robotics Technologies Platform is to support and accelerate Wyss Zurich projects in their transfer to market by providing multidisciplinary expertise and services, covering a range of core competences such as engineering, industrial design, prototyping, product development, and regulatory requirements.

Through an interdisciplinary team, state-of-the-art mechatronic prototyping facilities, and a network of external partners, the platform provides a range of services in the following topics:

- › Engineering & prototyping
- › Mechanics, electronics, embedded software engineering
- › State-of-the-art 3D Printing and laser-cutting
- › Mechatronic fabrication and testing product development
- › Development strategy and planning
- › Product design and usability
- › Manufacturing and procurement
- › Regulatory/Certification

Wyss Zurich Translational Center
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Weinbergstrasse 35, WEH
8092 Zurich
Switzerland
wysszurich.ch



A JOINT ACCELERATOR OF



All Wyss Zurich projects

- CeNeReg***
UZH/ETH Zurich

denovoSkin*
UZH

ETIMSred*
UZH

LifeMatrix
UZH/ETH Zurich
- MUVON**
UZH

Phire
UZH/ETH Zurich

Recolony
UZH

Somagenetix
UZH

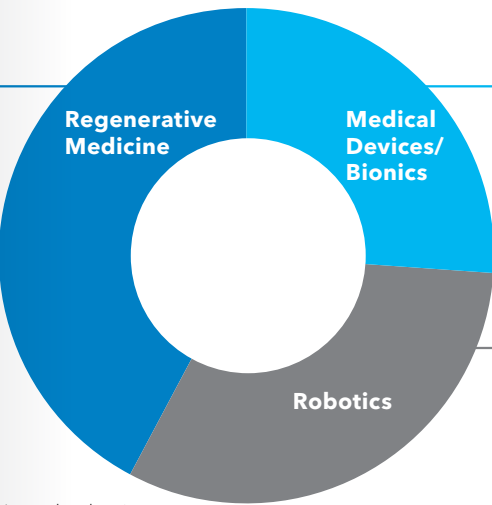
- Associate projects**

SwissProsthetics*

Rosie*
- Outreach projects**

mint & pepper

PATHOS*



* completed projects

- hemotune***
ETH Zurich

Hylomorph*
ETH Zurich

Liver4Life
ETH Zurich/UZH
- Nanoflex**
ETH Zurich

OxyPrem*
UZH
- ANYmotion***
ETH Zurich

Sevensense*
ETH Zurich

Seervision*
ETH Zurich
- Voliro***
ETH Zurich

Wingtra*
ETH Zurich

Zurich Eye*
ETH Zurich/UZH

For more information please see our website:



Completed projects



Zurich Eye
2015–2016
Team acquired by **Reality Labs/Oculus**
Replicating human visual perception in robots.
Team of >120
Investment factor 4.3



Wingtra
2016–2018
Spin-off company: **Wingtra AG**
Map larger, map faster, map anywhere.
Team of >100
Investment factor 30.0
Headquarters in Zurich, Switzerland. Additional offices in Denver, US, and Zagreb, Croatia.



ANYmotion
2016–2019
Spin-off company: **ANYbotics AG**
Autonomous robots for industrial inspection.
Team of 95
Investment factor 15.2
Headquarters in Zurich, Switzerland.



HYLOMORPH
2015–2020
Spin-off company: **HYLOMORPH AG**
An even more carefree life for people with implants.
Team of 8
Investment factor 4.1
Headquarters in Zurich, Switzerland.



ETIMSred
2015–2021
Spin-off company: **Cellerys AG**
Reinventing multiple sclerosis therapy.
Team of 12
Partnership with Novartis in 2021 for clinical development.
Headquarters in Schlieren, Switzerland.



Seervision
2018–2021
Spin-off company: **Seervision AG**
Camera automation software for effortless video production.
Team of 20
Investment factor 4.7
Headquarters in Zurich, Switzerland. Additional offices in Athens, Greece. Ten partners in 18 countries.



Sevensense
2018–2021
Spin-off company: **Sevensense Robotics AG**
Autonomy for your robots.
Team of 34
Investment factor 5.8
Headquarters in Zurich, Switzerland.



denovoSkin
2016–2022
Spin-off company: **CUTISS AG**
Personalized, bio-engineered, dermo-epidermal skin grafts.
Team of 36
Investment factor 7.9
Headquarters in Schlieren, Switzerland. Subsidiary office *CUTISS Innovation* in Sophia Antipolis, France.



OxyPrem
2018–2022
Spin-off company: **OxyPrem AG**
Uncovering brain oxygen in high-risk patients.
Team of 12
Investment factor 0.9
Headquarters in Zurich, Switzerland.



CeNeReg
2016–2022
Spin-off company: **NovaGo Therapeutics AG**
Enhancing the regeneration of the injured central nervous system.
Team of 6
Investment factor 4.2
Headquarters in Schlieren, Switzerland.



hemotune
2017–2022
Spin-off company: **hemotune AG**
Restoring immune balance in sepsis.
Team of 19
Investment factor 2.7
Headquarters in Schlieren, Zurich.



Voliro
2019–2023
Spin-off company: **Voliro AG**
The multi-purpose robotics flight platform redefining work at height.
Team of 26
Investment factor 2.4
Headquarters in Zurich, Switzerland.

Completed outreach and associate projects



PATHOS
2018–2022
Poetic Animatronics Through Hands-On Systems



Rosie
2017–2019
Train a robot. Learn science.



SwissProsthetics
2017–2021
A modular system of application-specific prosthetic hands

23
Projects supported

600
Jobs created

€120m
total funding
bridging the “valley of death”

€200m
additional funding
raised by the projects/startups