

biotechnet  
switzerland

BIOTECHNET  
SWITZERLAND

Meet-Up  
January 31, 2023



# WELCOME & HOUSEKEEPING

Welcome to all participants!

- Phones on silent
- Bathrooms
- Coffee break here in lobby
- PM presentations here in Aula
- Lunch, tours, networking in Building 21

## ACKNOWLEDGEMENTS

- Thanks to our hosts at HES-SO Valais-Wallis HEI
- Thanks to our event sponsor SATW
- Thanks to our promotion partners:



**satw**

Biotechnet Switzerland is a hub that encompasses the top Swiss partners from academia, university hospitals and research organizations to promote translational research and advance biotechnology in Switzerland.





# FULL MEMBERS



**Hes·so**

Haute Ecole Spécialisée  
de Suisse occidentale

Fachhochschule Westschweiz

University of Applied Sciences and Arts  
Western Switzerland



# AFFILIATED & GROUP MEMBERS



**Universität  
Zürich** UZH



# INTERNATIONAL PARTNERS & FRIENDS OF BIOTECHNET



**Università  
degli Studi  
di Palermo**



Swiss Biotech  
Association



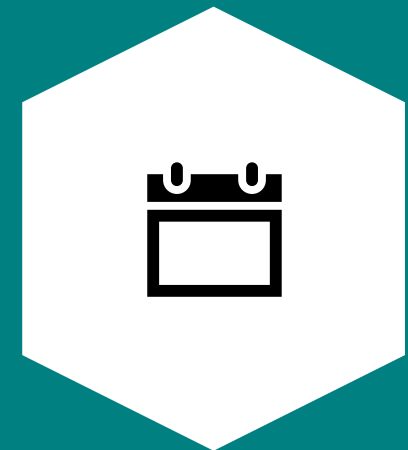
We are unique, growing, dynamic network that supports the competitiveness of the Swiss Biotech Ecosystem – driven by close ties between research organizations and industry.



50+ Research Teams



150+ Successful Projects



10+ Annual Events

**Bring together top expertise  
across Switzerland**

**Combine core competences  
of renowned research  
organizations**

**Concentrate knowledge  
and technology around  
thematic platforms**

**Organize and promote scientific  
and networking events**

**Facilitate partnerships  
between industry and  
research organizations**

**Ideal partner for SMEs and  
large firms**

**Support biotech  
education in Switzerland**

**Support acquisition and  
development of talent from  
Switzerland and abroad**

And how  
can we  
help you  
biotech?

Find. Connect. Collaborate.

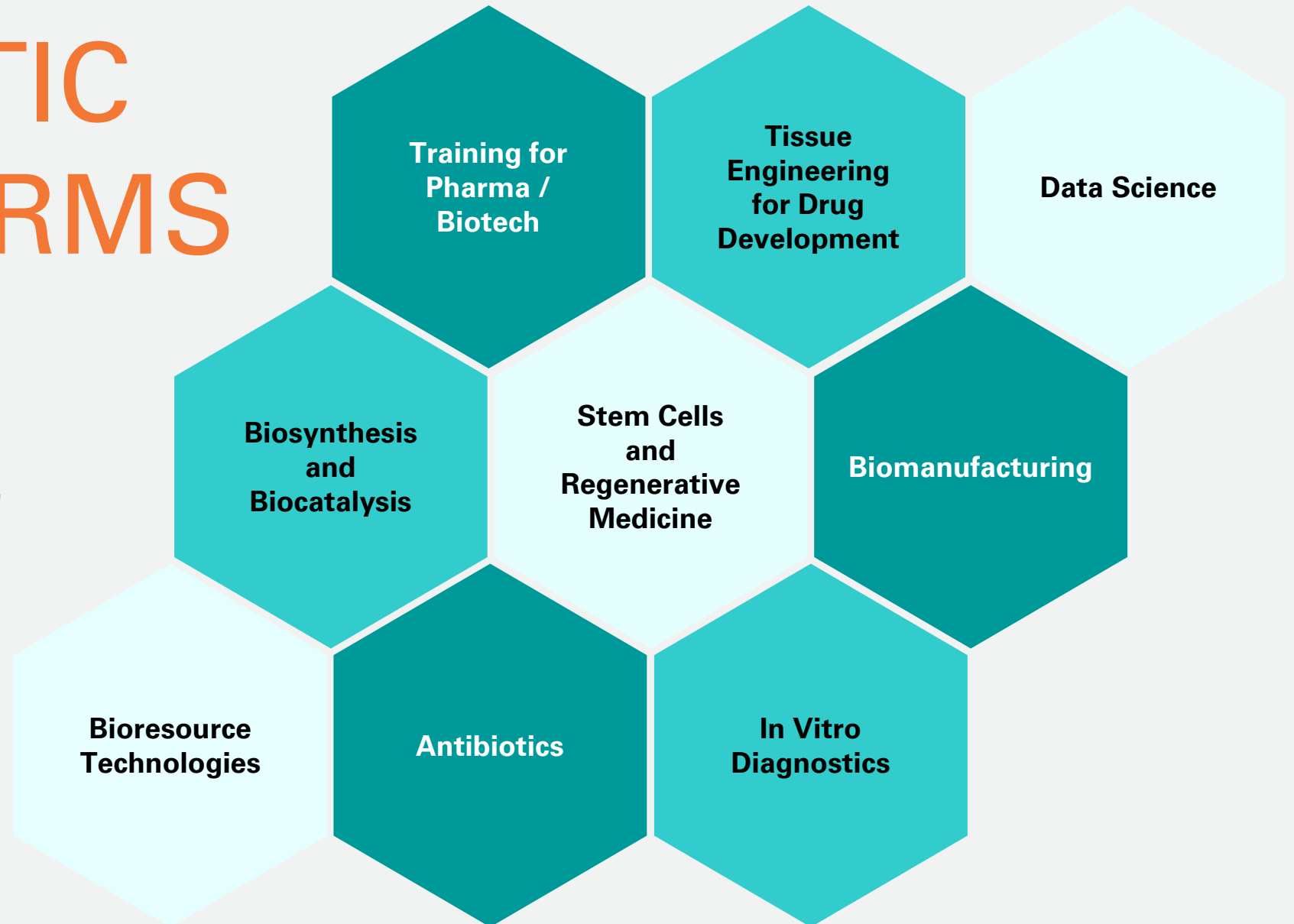
Search Swiss public research organizations



[www.biotech.net.ch](http://www.biotech.net.ch)

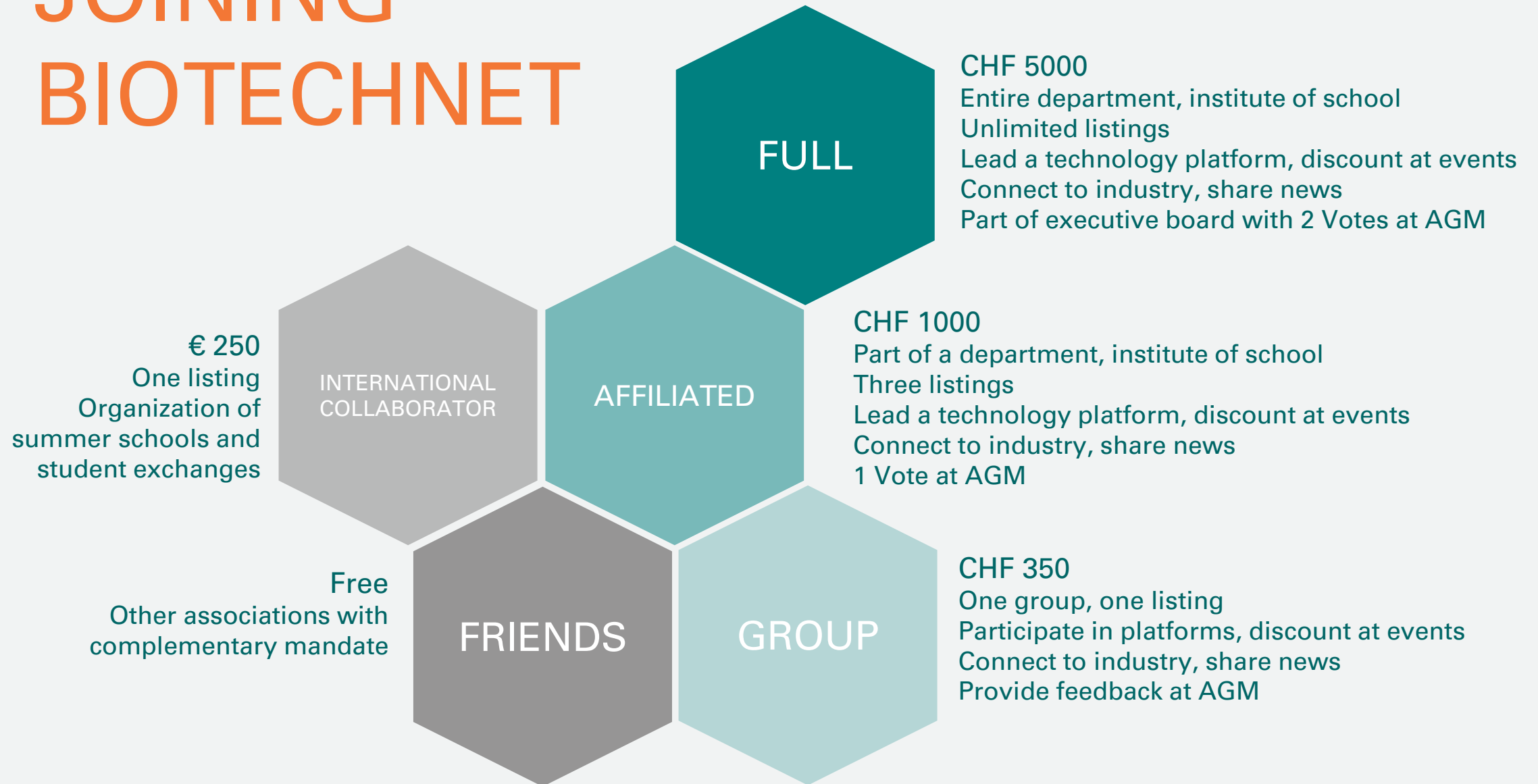
# THEMATIC PLATFORMS

Networking  
makes  
the difference!





# JOINING BIOTECHNET



# AGENDA AM: Biotechnet Platforms

Time	Topic
10.15	<b>Tissue Engineering:</b> Markus Rimann, ZHAW
10.30	<b>In Vitro Diagnostics:</b> Samantha Paoletti, CSEM and Marc Pfeifer, HES-SO
10.45	New: <b>Biomanufacturing</b> (formerly Single-use technology): Cedric Schirmer, ZHAW
11.00	Coffee and biobreak
11.15	New: <b>Data Science:</b> Abdullah Kahraman, FHNW and Moritz Kirschmann, CSEM
11.30	<b>Biocatalysis:</b> Katrin Hecht, ZHAW
11.45	<b>Bioresource Technologies:</b> Philippe Corvini, FHNW
12.00	<b>Stem Cells and Regenerative Medicine:</b> Eliane Muller and Amiq Gazdhar, University of Bern / Insel Spital
12.15	<b>Antibiotics:</b> Markus Seeger, University of Zurich
12.30	Lunch in Building 21

# AGENDA PM: Keynotes, Panel, Tour, Networking

Time	Topic
13.45	<b>Keynote talk, sponsored by SATW:</b> Interpretable artificial intelligence for cancer personalized medicine Aurelien Pelissier, IBM Research Zürich
14.15	<b>Keynote talk, sponsored by SATW</b> Accelerating bioprocess development with digital twins and machine-learning Moritz von Stosch, CIO, DataHow
14.45	<b>Panel Discussion: Public-private R&amp;D</b> <ul style="list-style-type: none"><li>• Massimo Nobile, CEO, Swiss Biotech Center</li><li>• Claudia Scheckel, CEO, Oncobit AG</li><li>• Jens Kelm, CEO and Founder, PreComb</li></ul>
15.30	<b>Move to Cafeteria Building 21</b> <ul style="list-style-type: none"><li>• Tour groups to assemble there</li><li>• Networking at discussion tables by topic</li></ul>
16.00	<b>Cafeteria Building 21</b> <ul style="list-style-type: none"><li>• Apéro and networking</li></ul>

# KEYNOTE TALKS



## Aurelien Pelissier, IBM Research

Aurelien Pelissier is finishing his PhD at IBM Research Zurich in the Healthcare department, in a joint program with ETH Zurich. His research addresses different aspects of the immune system in the context of Antibody binding, Gene regulatory networks, and Drug discovery.

Aurelien is also the CTO of Peer2panel, a blockchain startup with focus in renewable energy.

# KEYNOTE TALKS



## Moritz von Stosch, DataHow

Dr. Moritz von Stosch is a thought leader in the area of digital CMC development and manufacturing and author of more than 40 scientific publications, including the Book “Hybrid Modelling in Process Industries”.

He is the Chief Innovation Officer at DataHow AG. Prior to joining DataHow, he led the Process Systems Biology & Engineering Centre of Excellence at GSK Vaccines, for which he received an Innovation Performance and Trust award and was nominated a change catalyst.



# PANEL DISCUSSION: Public-private R&D



Massimo Nobile  
CEO  
Swiss Biotech Center



Claudia Scheckel  
CEO  
Oncobit AG



Jens Kelm  
CEO and Founder  
PreComb

# > Institute of Life Technologies

## Facts and figures

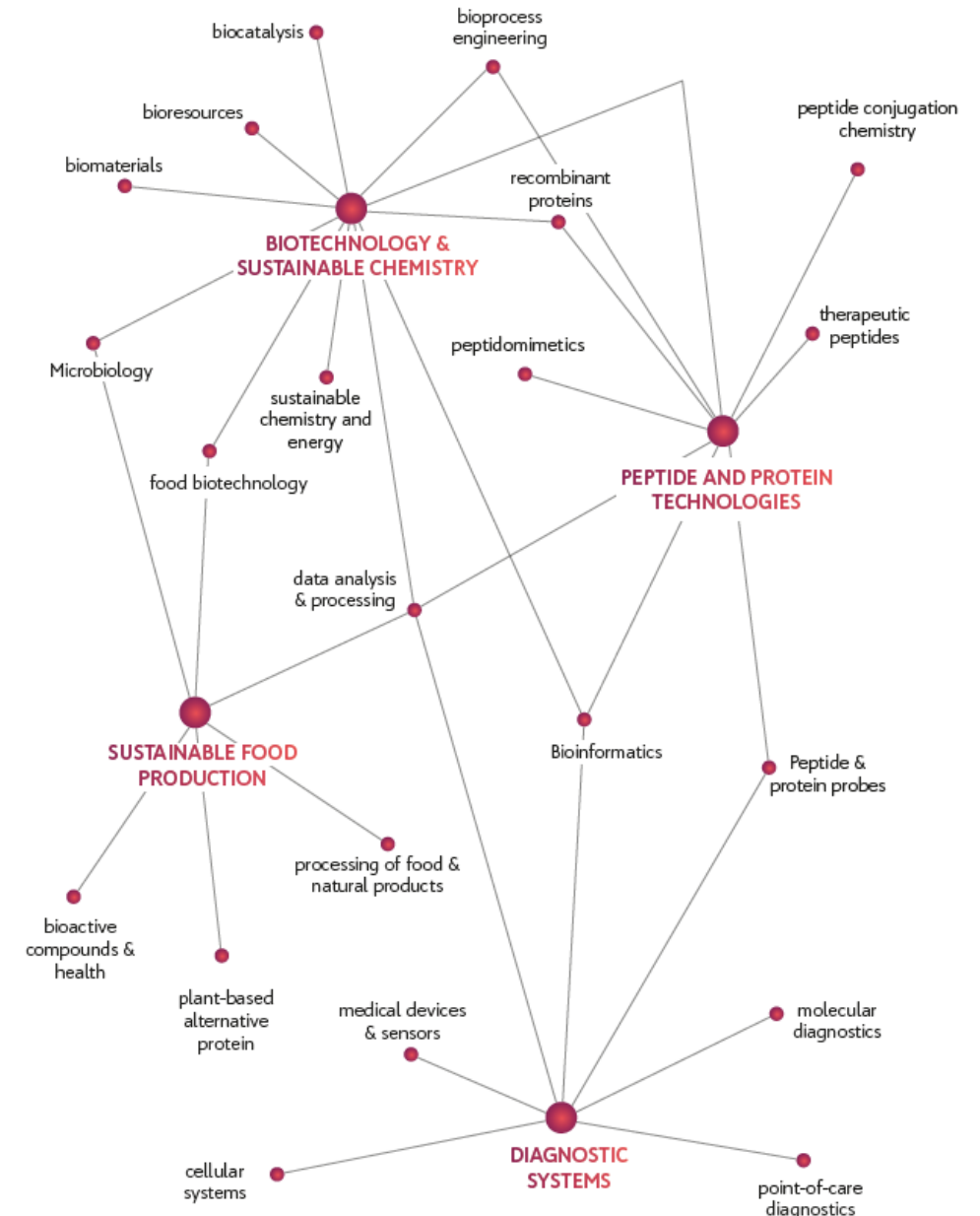
- 90 collaborators
  - ▶ 23 professors
  - ▶ scientific and technical collaborators (PhD, MSc, BSc Engineers, Technicians)
  - ▶ 10 apprentices
- more than 200 projects / year
- annual R&D turnover : CHF 7 Mio
- applied research in close collaboration with the industry



# > Institute of Life Technologies

## Research areas

- Biotechnology and Sustainable Chemistry
- Diagnostic Systems
- Peptide and Protein Technologies
- Sustainable Food Systems



# > Institute of Life Technologies Services

## Analytics

Chemical, microbiological and molecular-biological testing

- wide range of analyses
- development of methods
- validation of methods
- transfer of methods

## Small scale production

- Biomolecules and biomass
- Food products





# > Institute of Life Technologies

## Lab tour – Building I19

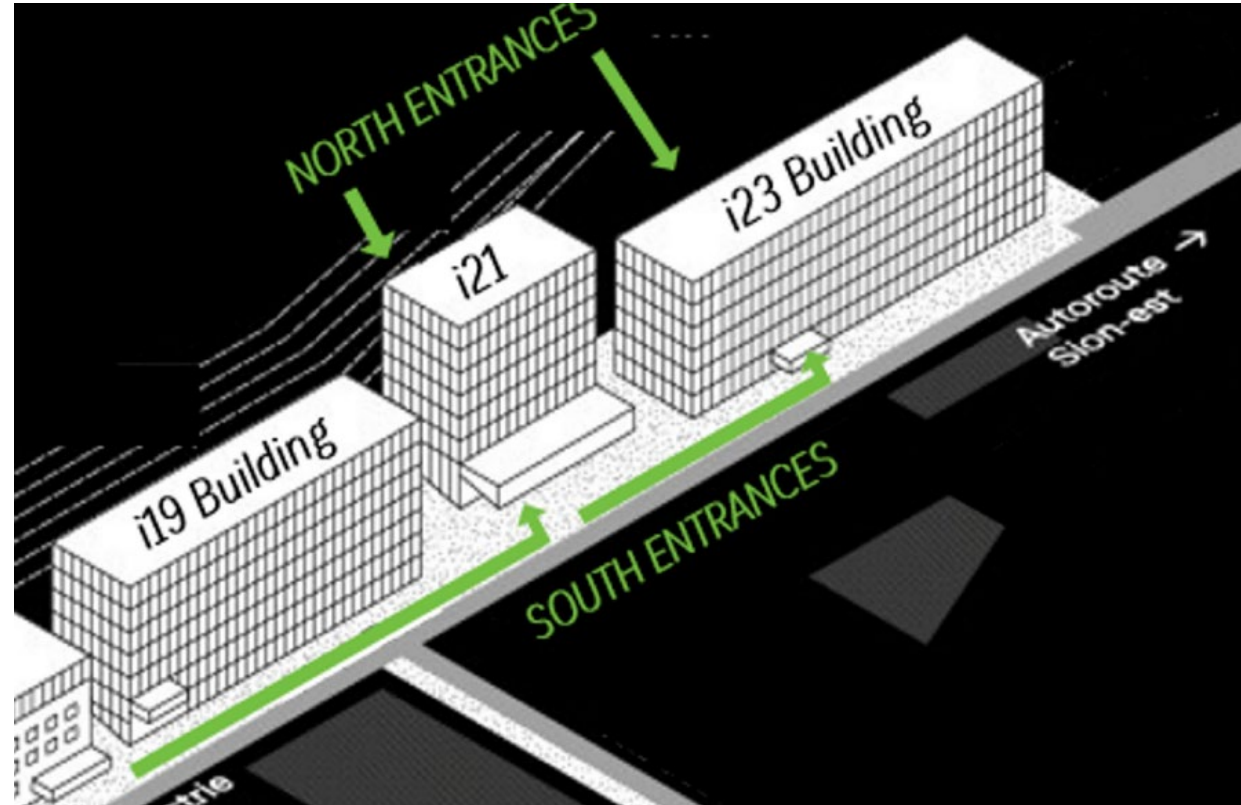
Biotechnology pilot plant – Prof. Manfred Zinn

Diagnostics Systems Lab – Prof. Marc Pfeifer

Molecular biology Lab – Prof. Alexandre Kuhn

3 groups guided by

- Marc Pfeifer
- Marc Mathieu
- Sergio Schmid





# TOURS

## Building 19

- Biotechnology pilot plant
- Diagnostics Systems Lab
- Molecular biology Lab

# NETWORKING

## Building 21

- New projects / collaboration ideas
- Organizing and sponsoring events
- Project funding Innosuisse, SNSF
- Political and government support for biotech
- Free discussions