



**INNOVATION
MADE
IN ZÜRICH**



LIFE SCIENCE ZÜRICH IMPACT

DATA FOR HEALTH

MAY 23rd, 2023
TECHNOPARK ZÜRICH

A LIFE SCIENCE ZÜRICH BUSINESS NETWORK INITIATIVE
#lszimpact

LSZ IMPACT - DATA FOR HEALTH

WELCOME TO ZÜRICH



CONTACTS

Congress Management

General information about the Conference, Registration and Industry Exhibition
SHE Meetings by CBS Congress Management GmbH
info@she-meetings.ch
+41 44 533 37 37

Life Science Zurich Business Network

Danielle Spichiger
danielle.spichiger@vd.zh.ch
+41 43 259 49 86

Life Science Zurich

Silvie Cuperus
silvie.cuperus@lifescience.uzh.ch
+41 44 63 5 35 01

Organizer:

Life Science Zurich Business Network
More information:
<https://lsz-impact2023.b2match.io/>



AIM & MOTIVATION

Life Science Zurich Impact «Data for Health» is a one-day multi-track meeting that provides **a platform for scientists from academia and industry to present their projects to potential collaborators and investors thus stimulating a dialogue between research, healthcare and economy with a focus on translational medicine.**

Big Data and digitalization are rapidly expanding and becoming increasingly important in our healthcare systems. It is therefore crucial that entrepreneurs, researchers, and policy makers have access to high value health-data to fully realize its potential in improving health outcomes for all. Furthermore, cooperation among industry, government, academia, clinics, and other relevant partners is essential for developing integrated health-data ecosystems, improving healthcare delivery, and advancing research, innovation, and policymaking.

Given this, **the aim of the conference is to discuss opportunities and challenges in this field, as well as to show how health data science is improving our knowledge and assisting in the resolution of difficult health problems.**

FORMAT

The conference will feature **keynote speakers, parallel sessions, an investor track, one-to-one partner meetings and an industry exhibition.** The parallel sessions will cover topics like **connecting patients, clinical processes, data in clinical trials, biomedical «omics», gender specific medicine, and artificial intelligence in medicine.**

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WELCOME TO ZÜRICH



Matchmaking / 1-to-1 Partnering

Enterprise Europe Network
Nicolas Lentze
+41 58 469 07 59
nicolas.lentze@innosuisse.ch
+41 58 469 07 59

1-TO-1-PARTNERING

To promote networking, and to facilitate the formation of new contacts and the initiation of new projects are major goals of Life Science Zurich Impact – **'Data for Health'**. To this end, pre-arranged 20 minutes face-to-face meetings are coordinated by Enterprise Europe Network. Register now for matchmaking at the conference webpage. During the conference, Nicolas Lentze from Enterprise Europe Network will offer on-site support.

A longterm Matchmaking will also be available from 24 May – 1 June 2023. Virtual participants, as well as all other participants have the opportunity to schedule virtual meetings with other participants for a one week period after the event. This allows you to deepen connections. Other than the onsite meetings, the duration of longterm matchmaking meetings can be set by the participants.

LSZ IMPACT - DATA FOR HEALTH MORNING PROGRAM

08:00 - 09:00 **Registration**

09:00 - 09:15 **Welcome & Introduction**

Danielle Spichiger, Director Life Sciences, Business & Economic Development, Canton of Zurich; President Life Science Zurich Business Network
Prof. Dr. Sven Hirsch, Head Biomedical Simulation & ZHAW Digital Health Lab, ZHAW

09:15 - 09:40 **Organoids to model human diseases**

Prof. Dr. Hans Clevers, Head of pharma Research and Early Development (pRED), Roche

09:40 - 10:05 **Highly multiplexed digital pathology for precision oncology**

Prof. Dr. Bernd Bodenmiller, Dual professor University of Zurich and ETH Zurich, Director of Department of Quantitative Biomedicine, Co-founder of Navignostics

10:05 - 10:30 **Digitalization and AI in Orthopedics - towards Surgical Data Science at the Balgrist University Hospital & in the Operating Room X (OR-X)**

Prof. Dr. Philipp Fürnstahl, Professor in Orthopedic Computer Science, Balgrist University Hospital Zurich
Dr. Sebastiano Caprara, Head of Digital Medicine Unit, Balgrist University Hospital Zurich

10:30 - 11:00 **Coffee Break**

11:00 - 12:30 **Parallel Sessions** (Details on the next page)

Health - Omics

Leveraging Clinical Data

Investor Track Powered by ZHAW - Session 1

12:30 - 14:00 **Lunch Break**

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PARALLEL SESSIONS - MORNING PROGRAM

Parallel Sessions

11:00 - 12:30 Health - Omics

Chair **Prof. Dr. Paola Picotti**, Deputy head of Institute for Molecular Systems Biology, ETH

Prof. Ralph Schlapbach, Functional Genomics Center Zurich, ETH/UZH

Dr. Marco Meola, Institute of Medical Microbiology, UZH

Dr. Kristina Beeler, Biognosys AG

Dr. Natalie de Souza, Institute of Molecular Systems Biology, ETHZ

Dr. Frank Staubli, Nebion AG

Ellen Aarts, Institute of Molecular Systems Biology, ETHZ

Functional Genomics Center Zurich (FGCZ): 20 years at the forefront of multi-omics for basic and applied research support

Microbial sequencing at the Institute of Medical Microbiology: a one-stop shop

A proteomics solution provider accelerating drug discovery and enabling precision medicine globally

Global in situ analysis of the structural proteome in individuals with Parkinson's disease to identify a new class of biomarker

Unchaining the full potential of public single-cell RNA-Seq data

Protein network-based study of ciliopathy-associated genes and phenotype-related mechanisms

11:00 - 12:30 Leveraging Clinical Data

Chair **Dr. Silvie Cuperus**, Head of Life Science Zurich, University of Zurich and ETH

Dr. Peter Kaeuper, Icoflex Särl

Prof. Dr. Heike Bischoff-Ferrari, Dept. of Aging Medicine and Aging Research, USZ/UZH

Dr. Samuel Wehrli, Institute of Computational Life Sciences, ZHAW

Prof. Dr. Claudia Witt, Institute for Complementary and Integrative Medicine, UZH

Anja Bischof, Lehrstuhl für Management im Gesundheitswesen, HSG

Davide Paparo, School of Engineering, ZHAW

Hospital Patients' Nutritional Data for Health

USZ Precision-Age

Wearable-based solutions for the hospital of the future

Digital Health Zurich - A practice lab for patient-centred clinical innovation

How to care about the patient? - The importance of gender differences in patient-reported outcome measures

DermatoTherma - Gathering electronic skin characteristics of underrepresented groups during thermotherapy treatment.

11:00 - 12:30 Investor Track Powered by ZHAW - Session 1

Chair **Dr. Chris Russ**, Dozent, Researcher & Startup Coach, ZHAW Digital Health Lab

Information on the presenting companies will follow in early May 2023

LSZ IMPACT - DATA FOR HEALTH AFTERNOON PROGRAM

Parallel Sessions (Details on the next page)	
14:00 – 15:30	Health Data Platforms
14:00 – 15:30	Intelligent Health Solutions
14:00 – 15:30	Investor Track Powered by ZHAW – Session 2
15:30 – 16:00 Coffee Break	
16:00 – 16:25	Gender Medicine: The Long and Rocky Road to Equality
	Prof. Dr. Dr. Cathérine Gebhard : Professor and Interventional Cardiologist at the University Hospital Bern, Director of the Center for Preventive Cardiology and Women's Health
16:25 – 16:50	Who benefits from the patient data? Opportunities and risks of digitization from the perspective of those affected
	Susanne Gedamke : Managing Director Swiss Patient Organization
16:50 – 17:30	Panel Discussion: An integrated-health data ecosystem: What does it take?
	Dr. Katrin Cramer : Director Swiss Personalized Health Network (SPHN), SIB Swiss Institute of Bioinformatics
	Nassima Mehira : Head of Digital Transformation and Steering Directorate, Vice Director, Member of the Senior management, BAG-Federal Office of Public Health
	Prof. Dr. Christian R. Baumann : Medical Co-Director, USZ/UZH
	Astrid Kiermaier : Global Head Insights Data & Experimental Analytics (IDEA) & Enhanced Data & Insights Sharing (EDIS), Roche
	Prof. Dr. Barbara Biedermann : Physician, Swiss Health Data Space Association and COBEDIAS Institute
	Moderation: Mathis Brauchbar : advocacy ag
17:30 – 18:00	Outlook and Closing Remarks
	Prof. Dr. Beatrice Beck Schimmer : Vice President Medicine, UZH/UMZH
	Dr. Silvio Bonaccio : Head of Tech Transfer, ETHZ
	Prof. Dr. Sven Hirsch : Head Biomedical Simulation & ZHAW Digital Health Lab, ZHAW
18:00 – 19:00	Apéro Riche

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PARALLEL SESSIONS - AFTERNOON PROGRAM

Parallel Session

14:00 – 15:30 Health Data Platforms

Chair **Michael J. Flynn**, Program Lead Digital Ecosystems, Roche Information Solutions

Vinko Tosevski, Psephisma Health

Viola Tozzi, Rewoso AG

Dr. Adrian Martinez de la Torre, Methods

Dr. Katrin Cramer, SIB Swiss Institute of Bioinformatics

Prof. Dr. Ernst Hafen, Verein Gesundheitsdatenraum Schweiz

Dr. Franziska Bächler, Verein Gesundheitsdatenraum Schweiz

Prof. Dr. Michael Krauthammer, Dept. of Quantitative Biomedicine, UZH

Psephisma Health and the equitable access to the cutting edge Real World Data for research at every scale

DESTINY - A holistic solution to optimize patient visits in clinical settings and make HCPs' life easier

Methods: closing the gap between data science and medicine

The contribution of the Swiss Personalized Health Network (SPHN) to a scalable and sustainable health data ecosystem

A moonshot initiative for a human-centered digital transformation of the health care system - No more whitepapers, lets walk the talk: Come join us as salutonauts!

Secondary use of health data in the next iteration of drug development

The LOOP Zurich BioMedical Informatics Platform: Development of a Multi-Hospital Clinical Data Store and AI Environment in Zurich

14:00 – 15:30 Intelligent Health Solutions (Auditorium)

Chair **PD Dr. Suzana Atanoski**, Head Strategic Projects UMZH, Office Vice President Medicine Zurich UZH

Dr. Moritz Kirschmann, CSEM S.A, Swiss Centre of Microelectronics and Microtechnology

Dr. Jens Boss, Prof. Keller's research group, USZ

Martin Kubli, Department of Medical Oncology and Haematology Clinic, USZ

Dr. Georg Spinner, Institute of Computational Life Sciences, ZHAW

Timo Geiser, Leg&airy® Orthopedic Wonders

Christian Thomay, Research Studios Austria Forschungsgesellschaft mbH

Dr. Christian Federau, ai medical

AI-Enabled Personalized Medicine: Overcoming the Limitations of Biomedical and Omics Data through Wearable and Biosensor Technologies

ICU Cockpit: A Vertically Integrated Data Platform for Medical AI Development and Validation in Clinics

Interpreting laboratory results with machine learning

AI for IA - Artificial Intelligence for Intracranial Aneurysms

Mobilising Disabled Children with Smart Orthotics

Using Holistic Multi-Sensor Patient Modeling to Improve Robotics-Supported Physical Therapy

Presenting Jazz - the cutting-edge intelligent automation software

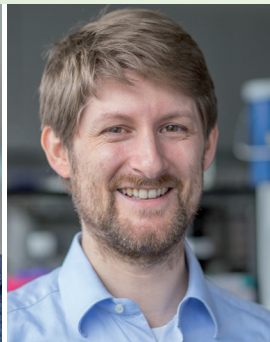
14:00 – 15:30 Investor Track Powered by ZHAW - Session 2

Chair **Dr. Chris Russ**, Dozent, Researcher & Startup Coach, ZHAW Digital Health Lab
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LSZ IMPACT KEYNOTE SPEAKERS



Prof. Dr. Hans Clevers is a Dutch molecular geneticist, cell biologist and stem cell researcher. He is currently the Head of pharma Research and Early Development (pRED), and a member of the Corporate Executive Committee of F. Hoffmann-La Roche based in Basel, Switzerland. Previously, Prof. Clevers headed a research group at the Hubrecht Institute for Developmental Biology and Stem Cell Research and at the Princess Máxima Center for Pediatric Oncology and Oncode where he has remained as an advisor and guest scientist or visiting researcher. He is also a Professor in Molecular Genetics at the University of Utrecht and has published over 740, highly cited, peer-reviewed papers.



Prof. Dr. Bernd Bodenmiller is a quantitative biologist who develops novel experimental and computational approaches for the quantitative analysis of tumor ecosystems for precision medicine applications. He obtained his PhD in the group of Ruedi Aebersold at ETH Zürich. For his postdoctoral training, he joined the laboratory of Garry P. Nolan at Stanford University. In 2013 he became a SNF/ERC assistant professor at the University of Zürich and in 2019 he was tenured. In 2020 he was appointed as Dual Professor for Quantitative Biomedicine at the UZH and at ETH Zurich. Prof. Bodenmiller is currently director of the Department of Quantitative Biomedicine (DQBM) at the University of Zurich, director technologies at the Comprehensive Cancer Center Zurich and co-founder of Navignostics.



Prof. Dr. Philipp Fürnstahl is a computer scientist by training who received his PhD in the field of computer-assisted surgery from ETH Zurich. Since 2012, Prof. Fürnstahl has headed the "Computer-Aided Surgery Lab" at Balgrist University Hospital. In 2018 he received the *venia legendi* in orthopedic research from the University of Zurich, followed by the appointment as Professor for "Research in Orthopedic Computer Science" in February 2020. Prof. Fürnstahl has more than 150 publications in the field of computer-assisted surgery. He is inventor of several medical devices that are successfully applied in patient treatment. Prof. Fürnstahl is a founding member and the General Manager of the OR-X.



Dr. Sebastiano Caprara received his PhD degree at the ETH Zurich with focus on machine learning and predictive models providing solutions for pre-operative planning of spinal fusion surgery. He is currently leading the Health Data Repository – HDR – project at the Balgrist University Hospital and establishing the Digital Medicine Unit. The main focus of his work is to develop a digital platform at the Balgrist University Hospital that can be modularly integrated in the flow of medical and research data within a hospital IT environment, focusing on structured clinical data and research cohorts. He is part of the digital Switzerland initiative representing Balgrist in the Digital Health Committee



Prof. Dr. Dr. Catherine Gebhard is a Professor and Interventional Cardiologist at the University Hospital Bern. She obtained her MD and PhD degrees at the Universities of Tübingen and Montreal and underwent clinical training in interventional cardiology and cardiac imaging at the University Hospital Zurich, the Montreal Heart Institute and the Imperial College London. In 2016 she was awarded with the Professorship of the Swiss National Science Foundation for her research on sex and gender differences in cardiovascular disease. From 2018 to 2022 she was the founding director of the continuing education program in Sex- and Genderspecific Medicine and was the founding president of the 'Commission for Sex and Gender in Medicine' at the University of Zurich.



Susanne Gedamke studied communication and psychology and has been working in healthcare for over twelve years. After getting to know the different perspectives of the big lobbies in healthcare, she decided three years ago to represent one of the biggest organization of healthcare users - the Swiss Patients Organization. Susanne is also active in the start-up world and has her own personal training studio in Zurich.

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GOOD TO KNOW



Meeting venue

Technopark Zürich is located at the heart of Zurich West Technoparkstrasse 1, 8005 Zürich www.technopark.ch

Limited parking space is available at extra cost on site. Further parking space is available in walking distance:

- Parkhaus Pfungstweid (Welti-Furrer-Areal, Pfungstweidstr. 1, 8005 Zürich)
- Parkhaus P-West (Förrlibuckstr. 151, 8005 Zürich)

Internet access

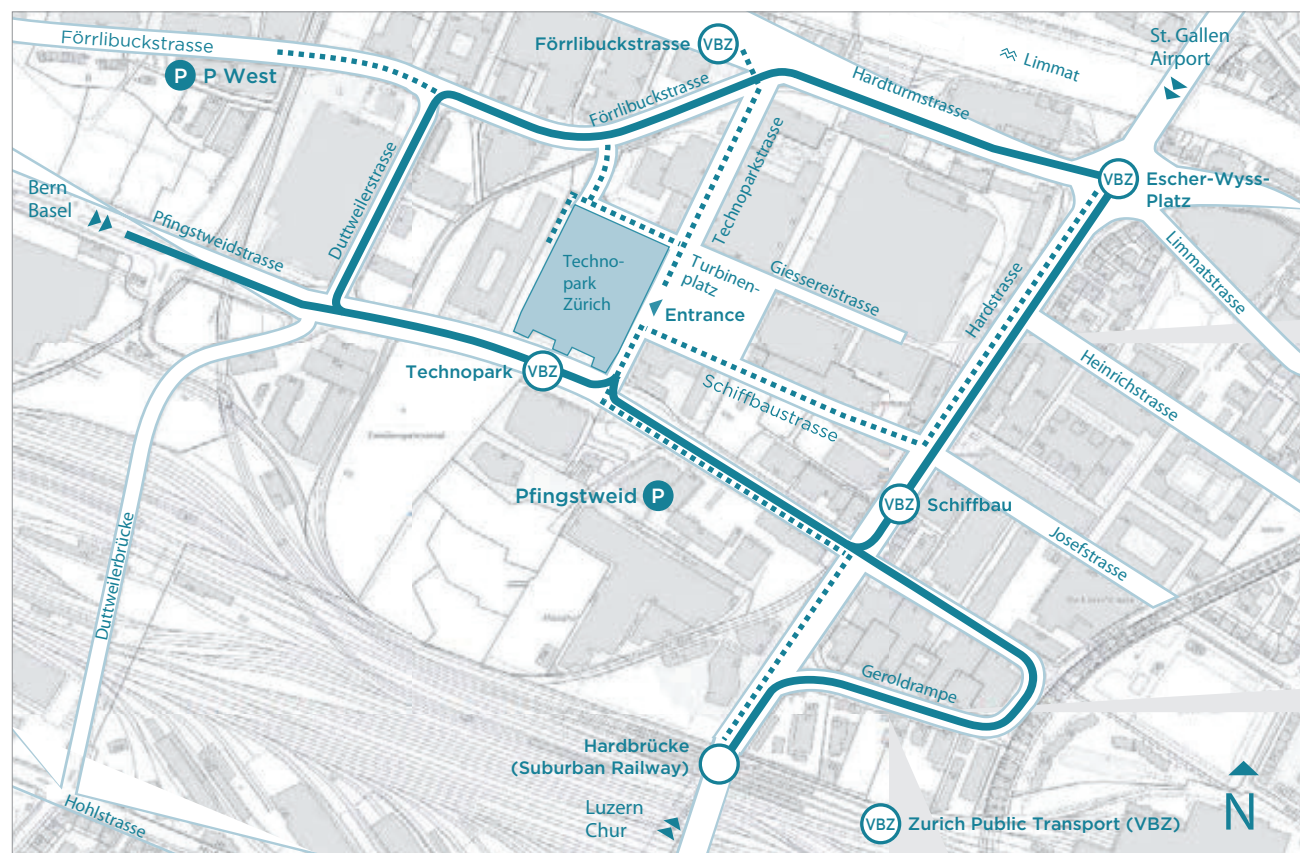
SSID: House.WiFi

Conference webpage:

<https://lsz-impact2023.b2match.io/>



Social media
#lszimpact



LSZ IMPACT - DATA FOR HEALTH ORGANIZERS, PARTNERS, SPONSORS



ORGANIZERS

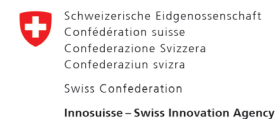
The Life Science Zurich Business Network is an independent, non-profit association comprising players from universities, industry, economic development, business clusters and technology transfer. It represents the life sciences cluster in the Zurich area and supports and stimulates networking and collaboration between industry, academia, and the public sector in the Zurich area and companies and organisations abroad.



CONFERENCE PARTNERS



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LSZ IMPACT - DATA FOR HEALTH EXHIBITORS



EXHIBITORS

We are pleased to welcome the following exhibitors at Zurich Life Science Conference 2023. All Coffee breaks as well as the Lunch and the Apéro riche will be served in the exhibition area.

balgristcampus

BEi BioEntrepreneurship
& Innovation program



TPC+
Tumor Profiler Center Switzerland
ETH zürich | Universitätsspital | Universität zürich


healthtechpark

**Innovation
Zurich**

 Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra
Swiss Confederation
Innosuisse – Swiss Innovation Agency

lifescience zurich
business network

lifescience zurich




SIB
Swiss Institute of
Bioinformatics

 **University of
Zurich**^{UZH}
UZH Innovation Hub

USZ Universitäts
Spital Zürich

 **Wyss Zurich**
Translating
Science into Life

 **Digital
Health Lab**