

December 11, 2025

Investor Read Deck, Non-confidential

# Unomr

SINGLE MOLECULE

Revolutionizing Precision Medicine  
with Nanopore-Based Protein Sequencing



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UNOMR AG, Switzerland



**Dr. Til Schlotter**  
Co-founder & CEO



**Dr. Julia Wagner**  
Co-founder & COO



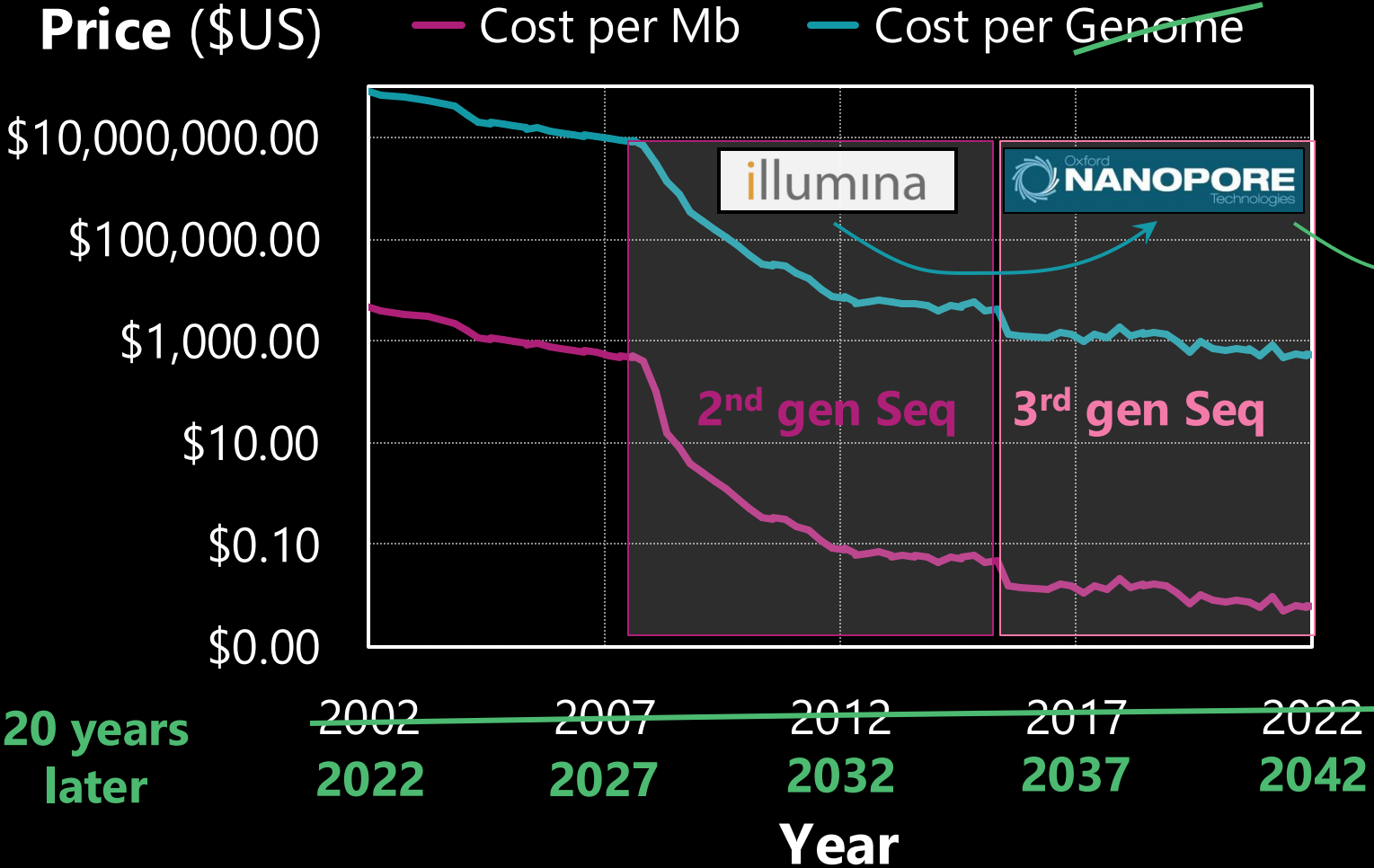
**Dr. Julian Hengsteler**  
Co-founder & CTO

# Becoming the Market Leader of Proteomics

Our Mission

UNOMR

proteome = set of all proteins



UNOMR  
SINGLE MOLECULE

Cutting down  
proteomics' costs

Meaning      U N O M R  
                 single molecule resolution


Pronounced as      U      n o      m R  
                 You know more

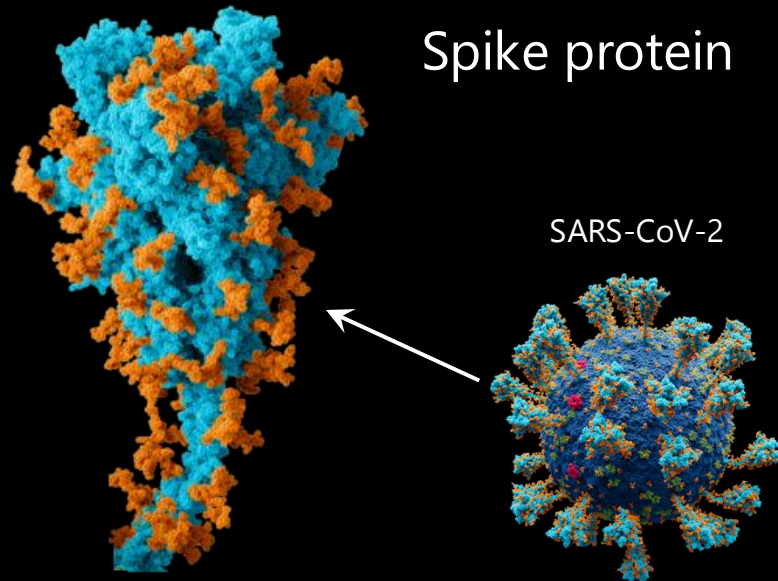
Genomics has revolutionized the life science industry in the last 20 years driven by a price drop of >\$1M per genome down to <\$1k. The next revolution will be based on proteomics and **UNOMR provides the enabling technology.**


# Lack of Accessible and Accurate Protein Analysis

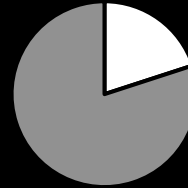
The Problem

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 = amino acid ✓  
determine protein identity



 = modification ✗  
determine protein interactions



~80% of human proteins  
unidentified with current methods



Unique protein variants  
inaccessible without protein profiling



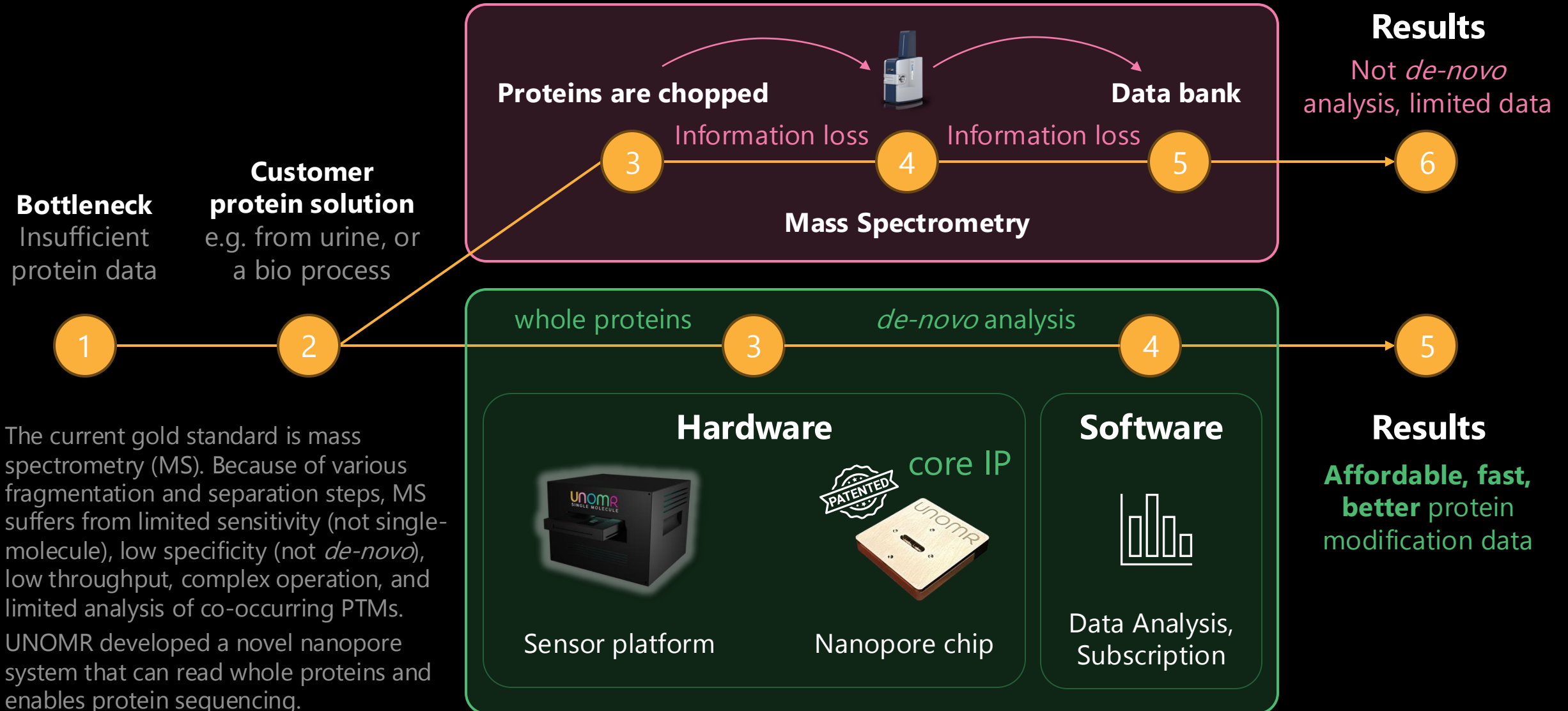
>90% of trials fail  
due to unexpected interactions

Proteins are complex structures formed out of a sequence of single amino acids (like a pearl necklace). The content of amino acids (blue) can be measured with limitations to identify proteins but the amino acid sequence which includes millions of post-translational modifications (orange, PTM) cannot be measured.

# Affordable, Fast, and In-Depth Protein Data

The Solution

UNOMR



# Improving Data with a New Sensor Platform

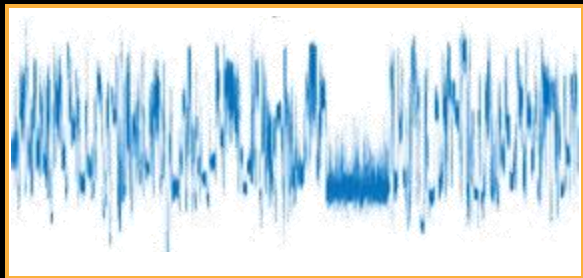
The Innovation

UNOMR

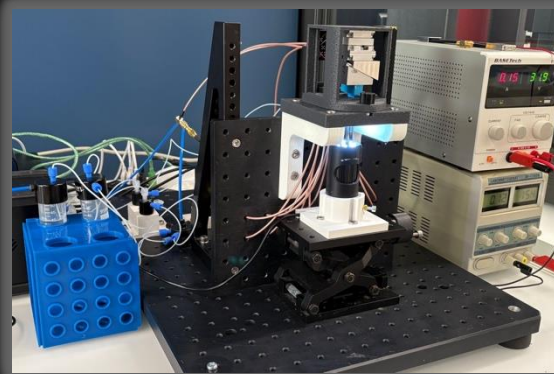
## State of the art Nanopore

- ✓ Cheap
- ✓ Easy to use

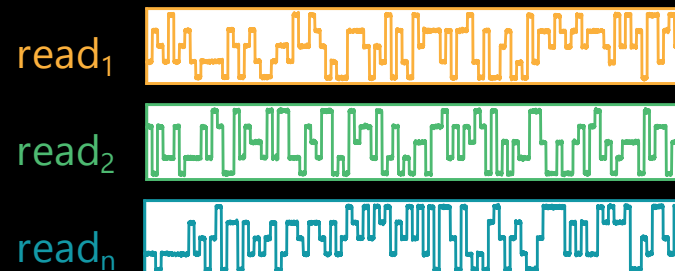
- ✗ Too complex signal
- ✗ Lack of information



## Our innovation Dynamic interface nanopore



Complexity  
decomposition



reconstruction  
using machine  
learning

single-  
signal  
analysis

protein  
sequence



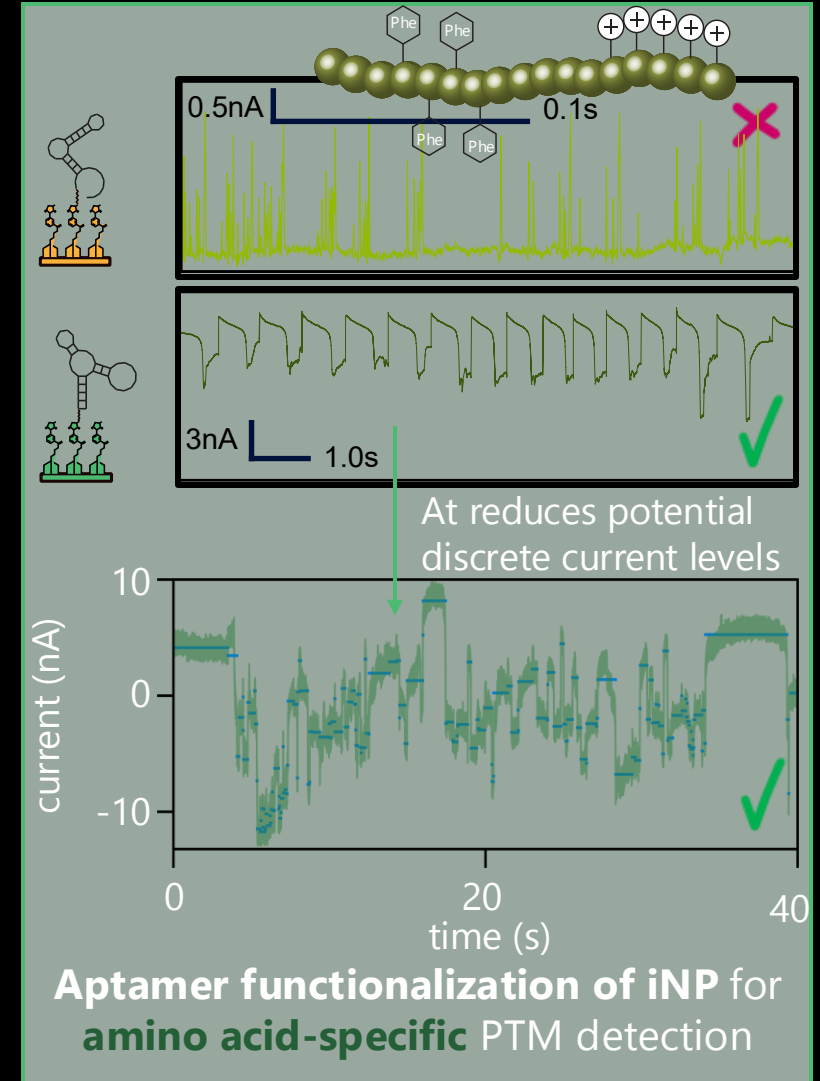
- ✓ Cheap
- ✓ Easy to use

- ✓ Resolved protein complexity
- ✓ Whole protein information

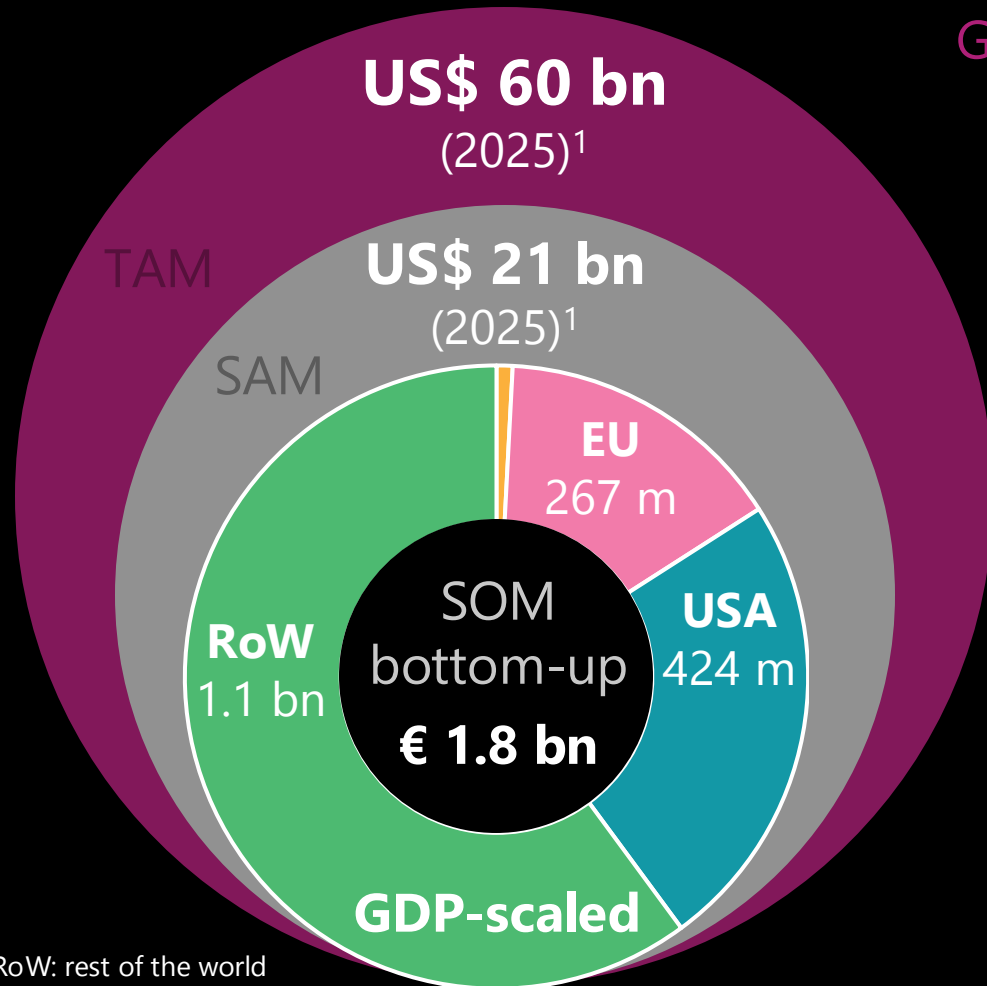
Compared to other nanopore systems, we provide dynamic (size-adjustable) nanopores which enables multiple re-reads of single molecules under different conditions ( $read_1 - read_n$ ) decomposing the signal complexity and reducing the error rate to achieve whole protein sequencing.

Scientific Validation **UNOMR**

Schlotter, Hengsteler, Nakatsuka *et al.* ACS Nano (2024)



# \$ 1.8 bn obtainable market by 2035



Global **analytical instrumentation** market (**10% CAGR**)

Global **protein characterization** market (**16.5% CAGR**)

## Bottom-up approach Swiss obtainable market

5 university hospitals

ETH/EPFL/EMPA/PSI

>250 pharma in CH

101 CROs

20 machines

70 machines  
(~ 20%)

90 machines / 5 year

+ consumables

**€ 16 m / year in Switzerland**

Data subscription not included

## 4 Revenue Streams

### SERVICE

**Priced per sample**, pilot since 2024

### PLATFORM

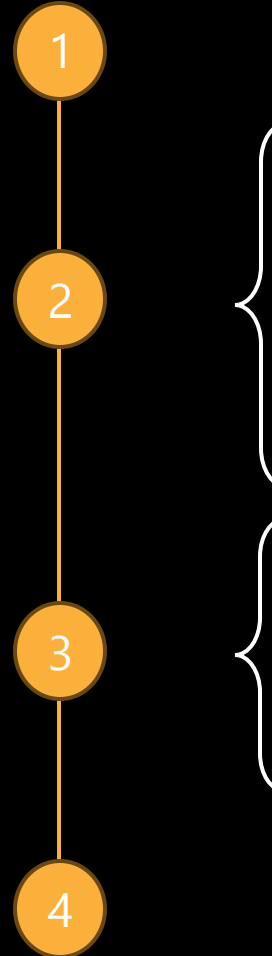
**Priced per sensor**, MVP 2026-27

### CONSUMABLES

**Recurring fee**, series 1 by 2028

### DATA

**Recurring licensing fee**, starting 2029



## Products

### Access lab

### Sensor

(= Box, € 350'000)

+ Peripherals  
(Autosampler,  
tubing, etc.)



### Cartridges

(€ 1'000)



### Chemicals

(variable)



### Data base access



# Go-to-market Focus on Research & Development in Pharma, Biotech, Food Innovation, and Academia

Customer

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## Customer segments



Pharma &  
Biotech R&D



Academia &  
clinical research



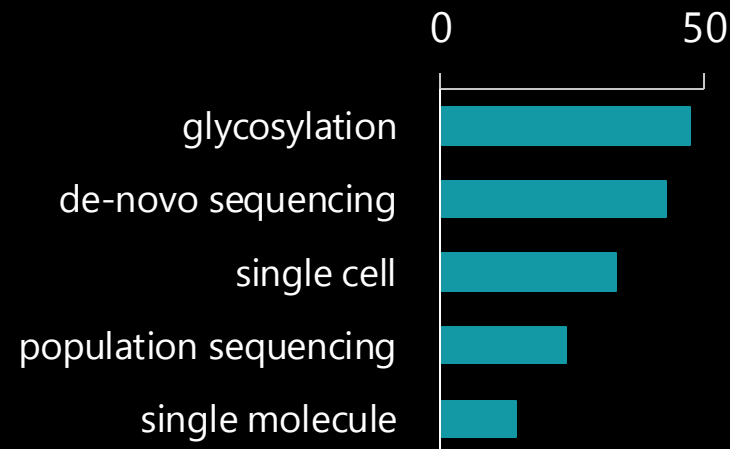
Food innovation

**No certification needed**  
(i.e. no IVDR / MDR)

## Customer pain analysis

### Top 5 applications mentioned (%)

Results from >100 interviews



## Target customers

- Director of BD
- Innovation manager
- Head of R&D /  
principal investigators

## Applications

- Drug discovery
- Biosimilars
- Cell line development
- High impact research

# The Only *De-Novo* Whole Protein Analysis Tech

Competition

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## Dynamic, serial nanopores

## Static, single nanopores

## Fluorescence

## Affinity-based

## Current standard: Mass Spectrometry

<p> <b>UNOMR</b> SINGLE MOLECULE</p> <ul style="list-style-type: none"> <li>• <b>Sequencing</b></li> <li>• <b>&gt;100 letters</b></li> <li>• <b>All PTMs</b></li> <li>• <b>Fast</b> (<math>&gt;10^9</math> aa/day)</li> <li>• <b>Whole protein</b> (<math>&gt;300</math> aa)</li> <li>• <b>Non-destructive</b></li> </ul> <p>Technology launch in 2029</p>	<p>   Portal</p> <p> Oxford Nanopore Technologies</p> <p>IPO 2021 \$ &gt;500M in funding</p> <ul style="list-style-type: none"> <li>• Fingerprinting</li> <li>• No single letters</li> <li>• Small PTMs</li> <li>• <b>Fast</b> (<math>&gt;10^9</math> aa/day)</li> <li>• Protein fragments (<math>&lt;100</math> aa)</li> <li>• <b>Non-destructive</b></li> </ul> <p>Technology launch announced for 2026</p>	<p>  QuantumSi</p> <p>IPO 2021 \$ &gt;500M in funding</p> <ul style="list-style-type: none"> <li>• <b>Sequencing</b></li> <li>• 14 letters</li> <li>• Few PTMs</li> <li>• Slow (<math>&lt;10^8</math> aa/day)</li> <li>• Protein fragments (<math>&lt;20</math> aa)</li> <li>• Destructive</li> </ul> <p>Commercially available</p>	<p>  NAUTILUS<sup>™</sup> BIOTECHNOLOGY</p> <p>IPO 2021 \$ &gt;300M in funding</p> <ul style="list-style-type: none"> <li>• Fingerprinting</li> <li>• No single letters</li> <li>• Few PTMs</li> <li>• Slow (<math>&lt;10^8</math> aa/day)</li> <li>• Whole protein (<math>&gt;300</math> aa)</li> <li>• <b>Non-destructive</b></li> </ul> <p>Technology launch unknown</p>	<p>   Olink</p> <p>\$ 3bn exit Thermo</p> <p> somalogic</p> <p>\$ 425m exit Illumina</p> <ul style="list-style-type: none"> <li>• Bulk identification</li> <li>• No single letters</li> <li>• No PTMs</li> <li>• <b>Fast</b></li> <li>• <b>Whole protein</b> (<math>&gt;300</math> aa)</li> <li>• <b>Non-destructive</b></li> </ul> <p>Commercially available</p>	<p>  ThermoFisher SCIENTIFIC</p> <p> BRUKER  Waters<sup>™</sup></p> <p>All bn-\$ corporates</p> <ul style="list-style-type: none"> <li>• Bulk identification</li> <li>• No single letters</li> <li>• <b>Many PTMs</b></li> <li>• Slow sample prep</li> <li>• Protein fragments (<math>&lt;20</math> aa)</li> <li>• Destructive</li> </ul> <p>Commercially available</p>
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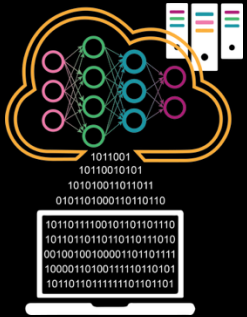
Single-molecule technologies

Bulk sample technologies



## Technology

The commercial roll-out of nanopore technologies for **DNA sequencing has shown the potential of this technology.** Advancements in nanotechnology allow for novel approaches that allow for adoption of the technology for proteomics.



## Data analysis

Advancements in data analysis and **machine learning open new possibilities** for nanopore data analysis, extracting in-depth data also from complex signals.



## Market

Our pilots and interviews with global life science companies show the **increased awareness** of improved protein analysis as the genomic revolution of the last decades imposed new questions which only proteomics can answer.

# Better Data For Better Medical Products

Customers We Already Help

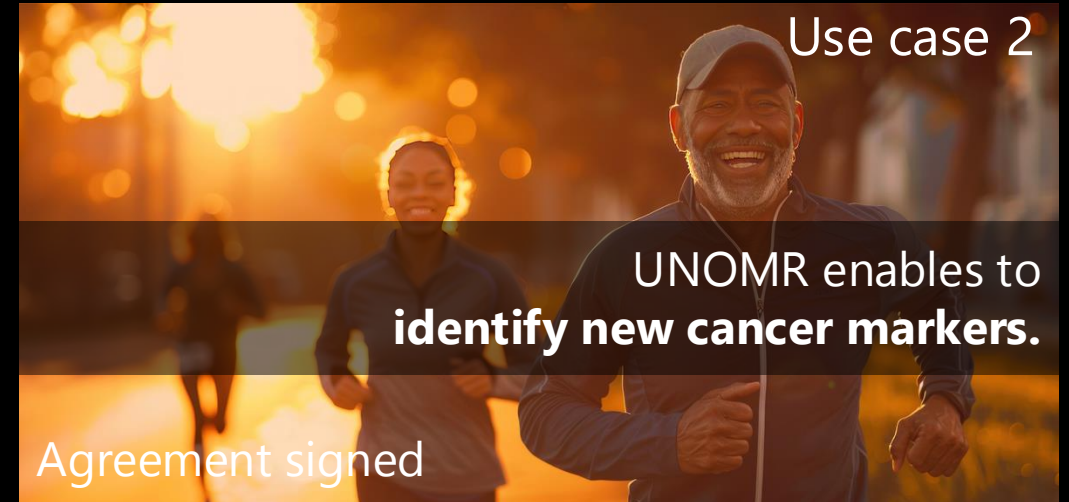
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Customer's **goal**:  
Developing **medical food**  
(e.g. cancer preventive yoghurt)

The bottleneck **we solve**:  
**Glycans** (= attached sugar) indicate medical impact, but **can't be measured**

The impact **we enable**:  
Opening a **billion-dollar market**




Customer's **goal**:  
Enabling **earlier tumor detection**  
(e.g. prostate, pancreatic, breast cancer)


The bottleneck **we solve**:  
**Identifying** next-generation of **biomarkers**

The impact **we deliver**:  
Better and **cheaper preventive strategies**


# Roadmap for Fast Growth




2 patent applications



5 peer-reviewed publications



5 LOIs



2 pilots

## (Prospective) Partners

In advanced discussions with **large Swiss pharmaceutical companies** (undisclosed)

Evaluation of technology with **corporates providing scientific tools** (undisclosed)

Implementation of novel projects with **SMEs in biotechnology** (undisclosed)

## Funding until now

Non-dilutive

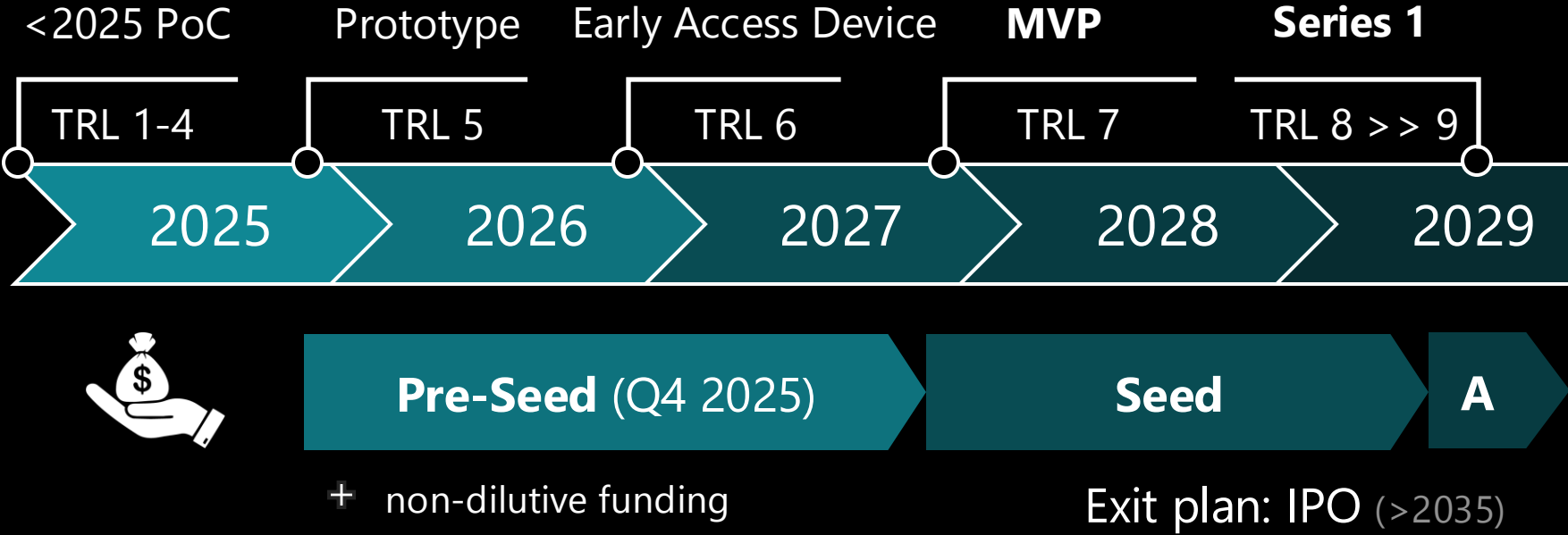
> € 1.3M

BRIDGE, Innosuisse, InnoBooster, SPRIN-D, and other

Convertible

€ 160k

  
winner stage 3



# Proven Growth Model

Growth Trajectory

UNOMR

**Market leader in**  
**genomics**

Performance

founded in 1998, IPO 2000  
2023: US\$ 4'500m

14 years  
later

10x  
GENOMICS®

**single-cell genomics**

founded in 2012, IPO 2019  
2023: US\$ 620m

15 years  
later

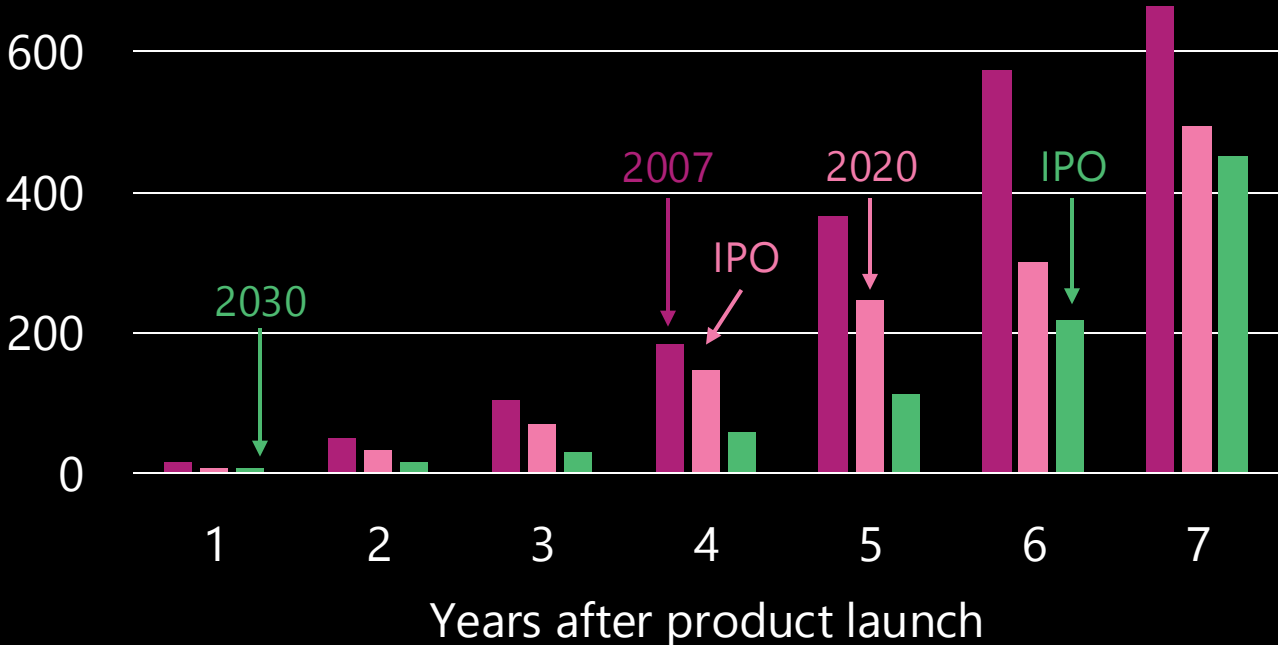
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**proteomics**

founded in 2025, IPO 2035  
2035: US\$ 219m

Illumina and 10x Genomics prove that breakthrough platforms in molecular analysis can scale into billion-dollar businesses within a decade. Both companies followed a predictable growth curve: rapid adoption after launch, strong recurring revenues, and IPOs within 5–7 years. UNOMR is positioned to replicate this trajectory in proteomics, the next frontier, by enabling de novo protein sequencing – a capability that will redefine drug discovery and diagnostics. Market timing is ideal: genomics and single-cell genomics have matured, creating demand for deeper protein-level insights, and UNOMR’s technology addresses this unmet need. For investors, this is a rare opportunity to enter early in a market poised for exponential growth and disruption once the technology becomes available.

Revenues comparison (\$ Millions)



## 18 months objectives

1

### Team expansion

- Software & Machine learning
- System engineering
- Biochemistry

2

### Technology

- Early access device in end of 2026
- On-site testing by mid 2027

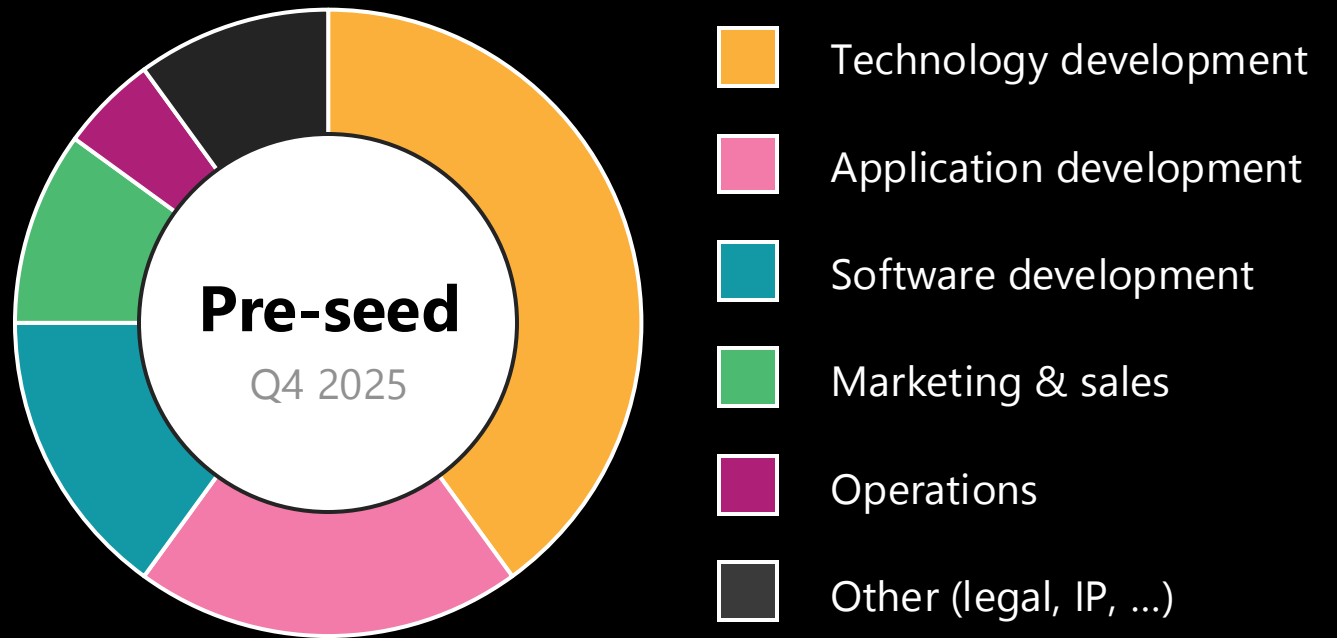
3

### Customers

- Two additional paid
- Two more pre-orders

## Raising pre-seed

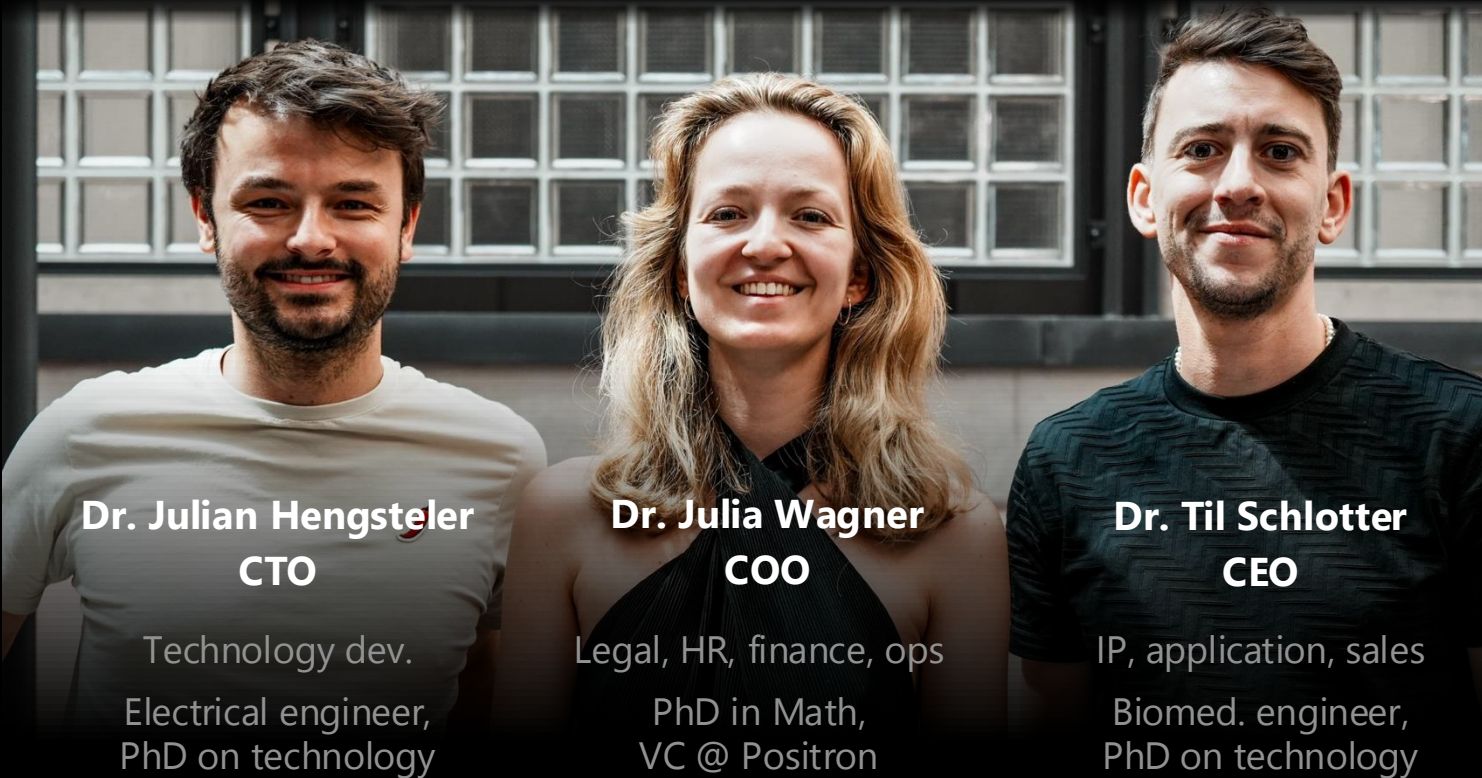
(lead investor signed, closing January 2026)



# Vision driven co-founders

The Team

UNOMR



**Dr. Julian Hengsteler**  
CTO

Technology dev.  
Electrical engineer,  
PhD on technology

**Dr. Julia Wagner**  
COO

Legal, HR, finance, ops  
PhD in Math,  
VC @ Positron

**Dr. Til Schlotter**  
CEO

IP, application, sales  
Biomed. engineer,  
PhD on technology

SENSIRION



positron  
ventures



Deloitte.



**Dr. Mark Nüesch**  
biochemistry



**Dr. Anahit Torosyan**  
biophysics



**Dr. Martin Holub**  
bioengineering

## Total team

+ 1 ext. software developer  
+ 1 intern  
+ students

## Scientific advisors & collaborators



**Prof. M. Aramesh**  
protein biophysics (ETH)



**Prof. J. Vörös**  
bioelectronics (ETH)



**Prof. N. Nakatsuka**  
aptamer sensors (EPFL)



**Prof. W. Wong**  
Protein conjugation (Harvard)

## Business & industry advisors



**A. Sethi**  
Business coach  
(Innosuisse)



**R. Hahn**  
>20y pharma expert  
(Novo Nordisk, Sanofi)

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with Nanopore-Based Protein Analysis



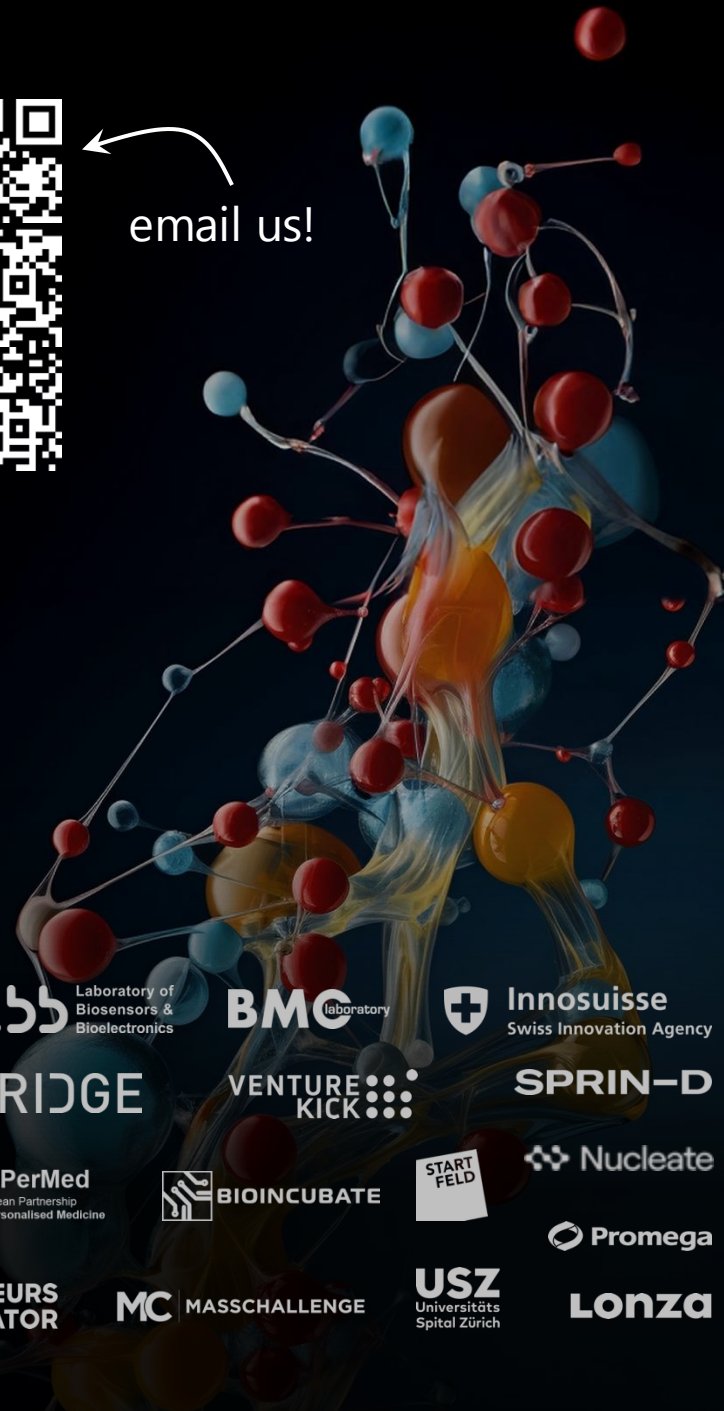
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Dr. Til Schlotter | Dr. Julia Wagner | Dr. Julian Hengstler



email us!



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**bb** Laboratory of  
Biosensors &  
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**BIOINCUBATE**

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**UNTER  
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**XP** **XPREENURS  
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**MC** **MASSCHALLENGE**

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