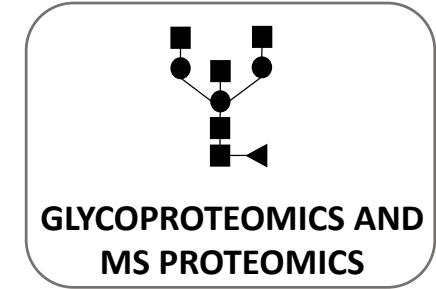
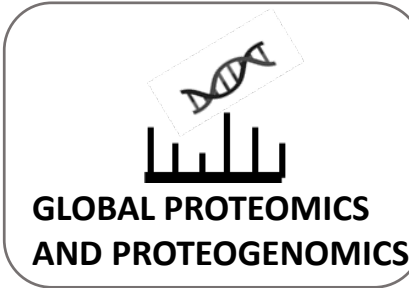
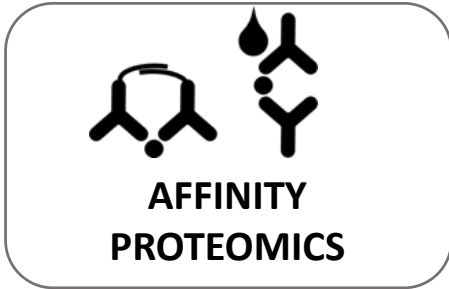


# Affinity Proteomics-Stockholm Industry Cost Model

Claudia Fredolini, PhD *Docent*  
Head of Affinity Proteomics-Stockholm  
Co-Director and Coordinator Proteomics Platform  
KTH-Royal Institute of Technology  
[claudia.fredolini@scilifelab.se](mailto:claudia.fredolini@scilifelab.se)

# Proteomics



Two nodes ONE



SERVICE

# Affinity Proteomics-Stockholm



SciLifeLab



**Claudia  
Fredolini**  
Head of  
Unit



**Matilda  
Dale**  
Project  
coordinator



**Maryam  
Sahi**  
Research  
Engineer



**Sarah  
Andersson**  
Research  
Engineer



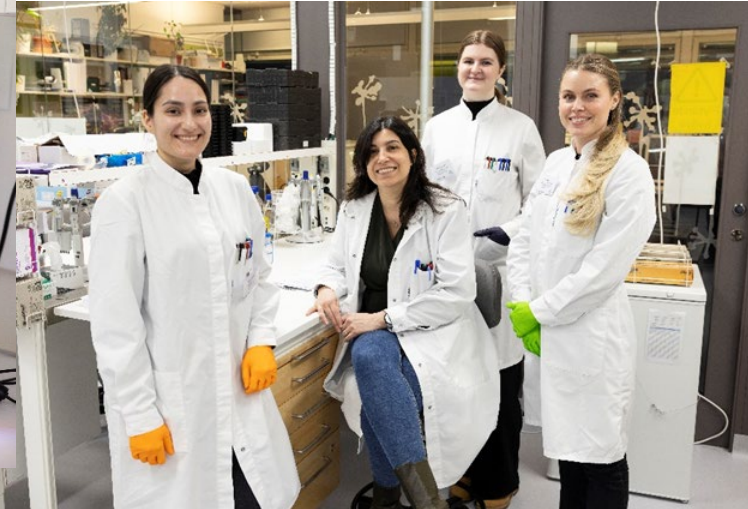
**Leila  
Beshir**  
Research  
Engineer



**Maria  
Aspenberg**  
Research  
Engineer



**Devi Anasava**  
MS student  
Uppsala  
University



## **Students visiting in 2024-2025:**

PhD students:

Annika Bendes KTH

Sosina Ayalew, Armauer Hansen Research Institute, Ethiopia

Jonas Julius Rudbæk, Aalborg University Copenhagen (Nov)

MSc students:

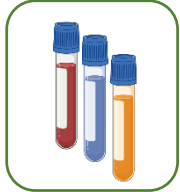
Devi Anasava, Uppsala University (Nov 2024-ongoing)

# Affinity Proteomics-Stockholm

## Technology portfolio



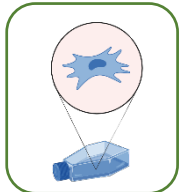
SciLifeLab



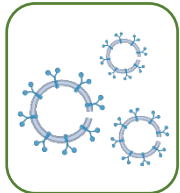
Body fluids  
proteomics



Microsampling

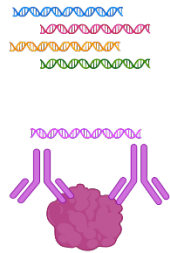


Secretome  
profiling



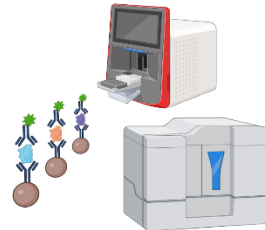
Extravesicles(EVs)  
and enveloped viruses

PEA TARGET 96  
(Olink)



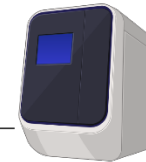
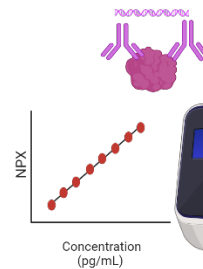
Semi-quantitative

MULTIPLEX BEAD  
ARRAY  
(Luminex)



high  
ng/mL-pg/mL

PEA TARGET 48/FLEX/  
FOCUS  
(Olink)



low pg/mL

MICROFLUIDIC ASSAY  
(Ella Protein Simple)



low pg/mL

SINGLE MOLECULE ARRAY  
(SIMOA Quanterix)



fg/mL-pg/mL

# The research we support

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- ✓ **Discovery, verification of biomarkers in body fluids**
- ✓ **Protein quantification in large sample cohorts**
- ✓ **Development of assays upon request**
- ✓ **Benchmarking of emerging technologies**
- ✓ **Collaboration for new technologies development**
- ✓ **Internal technology development projects**



# Applications



nature medicine



Article

<https://doi.org/10.1038/s41591-025-03605-x>

## Blood-based biomarkers of Alzheimer's disease and incident dementia in the community

Received: 6 March 2024

Accepted: 21 February 2025

Published online: 26 March 2025

Check for updates

Giulia Grande<sup>1,2</sup>✉, Martina Valletta<sup>1</sup>, Debora Rizzuto<sup>1,2</sup>, Xin Xia<sup>3</sup>, Chengxuan Qiu<sup>1</sup>, Nicola Orsini<sup>4</sup>, Matilda Dale<sup>5</sup>, Sarah Andersson<sup>5</sup>, Claudia Fredolini<sup>5</sup>, Bengt Winblad<sup>3,6</sup>, Erika J. Laukka<sup>1,2</sup>, Laura Fratiglioni<sup>1,2</sup> & Davide L. Vetrano<sup>1,2</sup>

### Swedish National Study on Aging and Care in Kungsholmen (SNAC-K)

*Community-based cohort study of more than 2,000 Swedish adults aged 60 and older followed for up to 16 years, dementia free at baseline*

#### AIM:

assess AD biomarkers' performance in the prediction of all-cause and AD dementia in a 10-year timeframe in community settings

Cell Reports Medicine

CellPress  
OPEN ACCESS

Article

## Multi-organ single-cell analysis reveals an on/off switch system with potential for personalized treatment of immunological diseases

Sandra Lilja,<sup>1,11,12</sup> Xinxu Li,<sup>1,2,12</sup> Martin Smelik,<sup>1,2,12</sup> Eun Jung Lee,<sup>3</sup> Joseph Loscalzo,<sup>4,5</sup> Pratheek Bellur Marthanda,<sup>6</sup> Lang Hu,<sup>7</sup> Mattias Magnusson,<sup>8</sup> Oleg Sysoev,<sup>9</sup> Huan Zhang,<sup>1</sup> Yelin Zhao,<sup>1,2</sup> Christopher Sjöwall,<sup>10</sup> Danuta Gawel,<sup>11,12</sup> Hui Wang,<sup>7,12</sup> and Mikael Benson<sup>1,2,12,13,\*</sup>

nature communications

## Multianalyte serology in home-sampled blood enables an unbiased assessment of the immune response against SARS-CoV-2

Niclas Roxhed<sup>✉</sup>, Annika Bendes, Matilda Dale, Cecilia Mattsson, Leo Hanke, Tea Dodig-Crnković, Murray Christian, Birthe Meineke, Simon Elsässer, Juni Andréll, Sebastian Havervall, Charlotte Thålin, Carina Eklund, Joakim Dillner, Olof Beck, Cecilia E. Thomas, Gerald McInerney, Mun-Gwan Hong, Ben Murrell, Claudia Fredolini & Jochen M. Schwenk<sup>✉</sup>

analytical  
chemistry

[pubs.acs.org/ac](https://pubs.acs.org/ac)



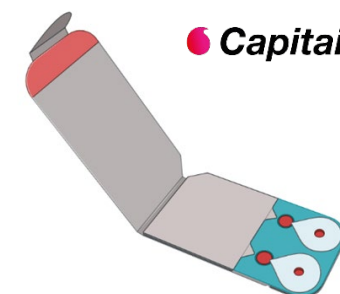
Article

## Microfluidic Device for Patient-Centric Multiplexed Assays with Readout in Centralized Laboratories

Janosch Hauser, Matilda Dale, Olof Beck, Jochen M. Schwenk, Göran Stemme, Claudia Fredolini,\* and Niclas Roxhed\*

Cite This: *Anal. Chem.* 2023, 95, 1350–1358

Read Online



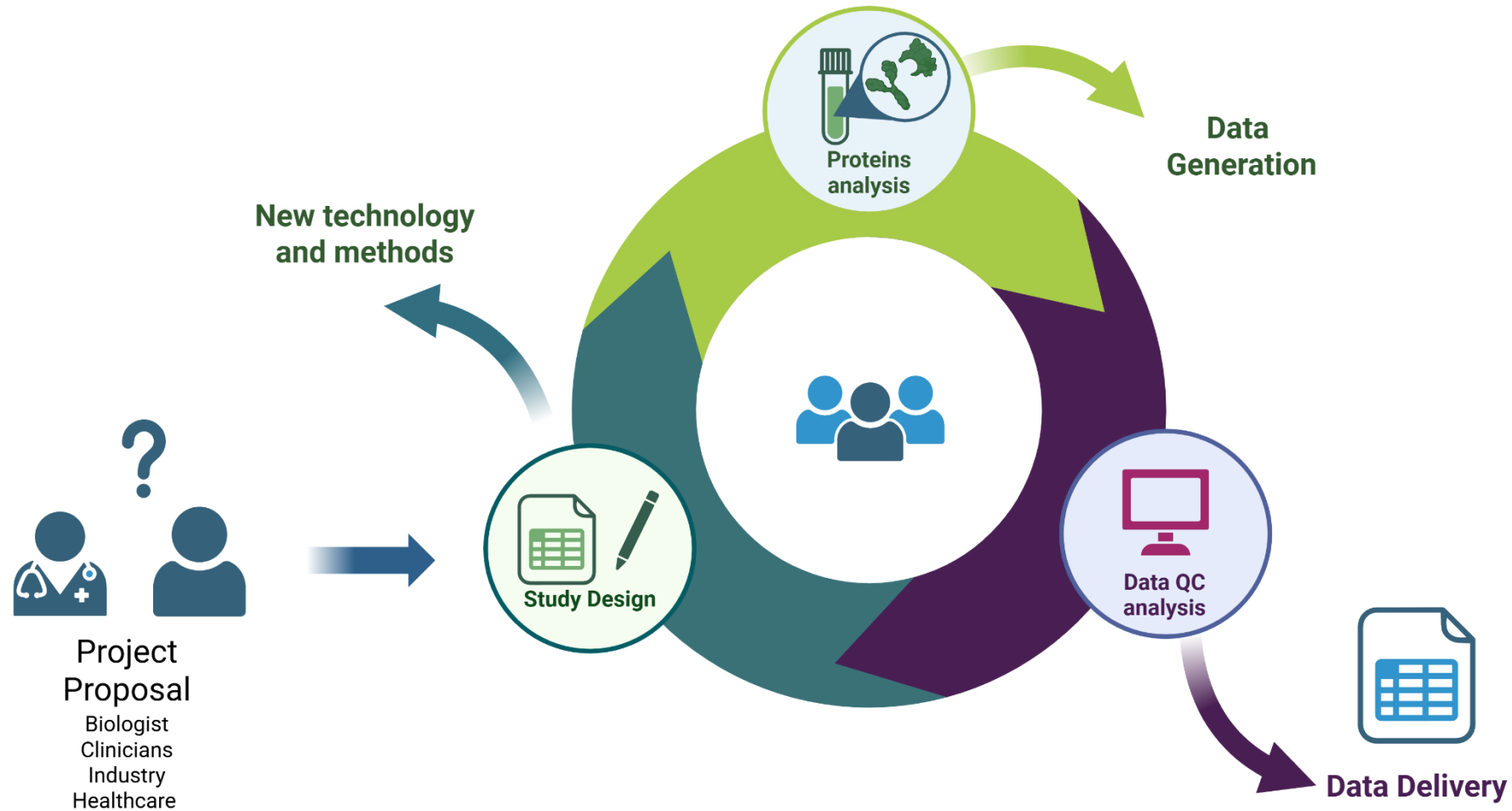
Capitainer

# Support to Industry

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# Projects flow





# KTH Infrastructures for Research



[← Research](#)

## Infrastructures for research

[KTH's research environments](#)

[National infrastructures](#) ←

[KTH research infrastructures](#) ←

[Other research facilities](#) ←

[General terms for use](#)

[Contact](#)

## KTH research infrastructures

KTH's established research infrastructures are strategic and have a long-term plan for organisation, quality assessment, funding, and societal impact. They are accessible to many users and are used frequently.

### Affinity Proteomics

The Unit of Affinity Proteomics supports researchers and clinicians in the fields of translational and personalized medicine. We offer expertise in protein analysis of human body fluids, cell supernatant and cell lysates, applying cutting edge affinity technology for sensitive quantification and multiplexed protein profiling. We develop immunoassays fitting specific research needs.

There is a fee to use the infrastructure, which is calculated to cover the entire or parts of the infrastructure's costs. The fee varies depending on whether the user is a government agency or a private company. If there is a queue, the unit makes prioritising decisions.

[Affinity Proteomics webpage](#)

# Guidelines to access the unit



## Affinity Proteomics-Stockholm Unit Guidelines and Rules

1. The Affinity Proteomics-Unit in Stockholm is an academic laboratory belonging to the Royal Institute of Technology (KTH). We are equipped with cutting edge instrumentation and we provide technological expertise in protein quantification, and new methods development to support clinical and pre-clinical research.
2. Researchers could choose different levels of support:
  - Analysis of samples using available standard operating procedures (SOP). Research data are generated, and delivered after a quality control (QC). No data analysis or interpretation will be provided by unit. No intellectual property will be retained by the unit. User fee will be applied (see Appendix 2).
  - Collaborative research, meaning the unit team is engaged with substantial intellectual and/or experimental contribution. Project costs are clearly defined upfront of the analysis (eg. unit is part a grant application together with a researcher). Project cost calculation include user fee (see Appendix 2).
3. **How to submit a project:** the researcher is requested to complete and to submit the documents **Appendix 1-5** to [claudia.fredolini@scilifelab.se](mailto:claudia.fredolini@scilifelab.se) and to [affinityproteomics-stockholm@scilifelab.se](mailto:affinityproteomics-stockholm@scilifelab.se).  
The documents must include a brief but exhaustive description of the aims of the project and type of analyses requested. Before being accepted, project will undergo internal evaluation and, when necessary, receive suggestions to optimize the experimental design and maximize data quality and scientific impact.  
**Notes:**
  - In period of limited access, a Strict Queue System is applied.
  - Getting in contact with our unit upon the suggestion of a commercial company DOES NOT guarantee direct access to our unit.
  - DO NOT SHIP SAMPLES if the projects have not been accepted yet.
  - BEFORE ORGANIZING SAMPLES SHIPMENT communicate and agree on a date with the unit's team.
4. **Acknowledgment:** When data generated and/or analyzed at our unit are published, independently from the type of support received (routine analysis or collaborative project), the unit must be acknowledged using a sentence starting with the following text: *"We thank the Affinity Proteomics Unit at SciLifeLab in Stockholm for supporting with protein quantification/assay development, etc... (name of the technology)"*.
5. **Co-authorship:** for collaborative projects and in any case in which a substantial experimental and/or intellectual contribution to a publication was provided, our team members involved should be included as co-author(s) in accordance with the Vancouver principles (<https://www.icmje.org/icmpje-recommendations.pdf>). The corresponding SciLifeLab unit should always be stated as affiliation, in addition to the university affiliation.

- ✓ Service/collaborative/tech development
- ✓ In period of limited access, a Strict Queue System is applied.
- ✓ Access is not influenced by companies
- ✓ Acknowledgment
- ✓ Co-authorship

# KTH service agreement for industry



Affinity Proteomics KTH  
SciLifeLab, Kungl. Tekniska högskolan

## Agreement on Commissioned Project (hereinafter called "this Agreement")

Project name:

### 1. The Parties

Company name AB,[address], hereinafter called "the Partner"  
and

Kungl. Tekniska högskolan and SciLifeLab Affinity Proteomics Unit KTH represented by  
prof. Claudia Fredolini, hereinafter called "the Facility".

### 2. Cost of the project

The Facility will charge the Partner according to the cost calculation in SEK (see  
Appendix 1, Description of Service and Cost Calculation).

### 3. Performance of the Commissioned Activities

#### 3.1. Common performance

Date of sample delivery is to be agreed upon.

#### 3.2. The Facility performance

a) The Facility agrees to perform [project description]

b) The Facility will examine the samples provided by Partner by measuring/estimating  
the sample volume and the visual quality of the samples. Facility will only use the  
samples for the purposes stated herein.

c) The samples will be safely stored at adequate conditions in the facilities of Facility.  
The samples will remain the property of Partner and will be returned upon delivery of  
the data, unless agreed otherwise.

- ✓ Establishes conditions for performances (both parties)
- ✓ Limitation of Liabilities
- ✓ Force Majeure
- ✓ Costs and payment conditions
- ✓ **Aligned recently between Stockholm and Uppsala nodes**

# Cost model Affinity Proteomics Unit



A cost calculation will be provided prior to acceptance of the project in the facility. Swedish users are charged for i) reagents used and ii) a facility fee to cover instrument maintenance. International and industry users are charged on full cost model, including i) reagents and consumables, ii) staff hour and over head costs and iii) a facility fee to cover instrument maintenance.

NB: individual users may provide their individual discount codes for commercial suppliers.



Affinity Proteomics Stockholm – Science for Life Laboratory

Name:

Email:

PI name:

PI Email:

Billing address:

Billing reference:

Project Name:

**Short Description of Intended Analysis:** Analysis of proteins associated to neurodegeneration in xxx samples .... by NULISA (CNS panel).

**Short Description of Project costs:** The following reagents will be charged at Alamar® list price and ordered specifically for this project. As provider of Alamar's assays, the units generated NPQ normalized the data.

Charge type	Cost per entity (SEK)	Number of entities	Total cost (SEK)	Comment
Tech 1	82000	3	246000	
Tech 2		2	30000	NA
Facility Fee			42000	
Industry/ international full cost mode		-	20000	NA
			338000	

SciLifeLab Stockholm 2025-06-05  
Claudia Fredolini, Head of facility

A cost calculation will be provided prior to acceptance of the project in the facility.

Swedish users are charged for

- i) reagents and consumables
- ii) a facility fee to cover instrument maintenance

- iii) International(?) and **industry users** are charged on full cost model, including reagents and consumables, ii) **staff hour and over head costs** and iii) a facility fee to cover instrument maintenance.



What factors may influence this figure?

Hour cost+OH?

Market research?

How what we offer is unique?

# Conclusions/Questions

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- SciLifeLab vs host University infrastructure
- Different hosts different customs
- Should we as academic infra be competitive to other service providers (even to companies?)
- Is this what big companies wants?
- Will this strategy limit access to service to SME?