



**SciLifeLab PULSE:**  
**matchmaking portfolio**  
**with associated partners**

Application round 2 (Dec 2026–March 2026)

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# Introduction

For each PULSE project, a 3-6 months secondment is mandatory with one of the PULSE partner organisations. Also, shorter, non-mandatory research visits can be considered for the project.

This portfolio has been compiled to assist candidates applying for the PULSE postdoc program in identifying suitable co-supervisor/s and secondment lab at a PULSE [Associated partner](#) for their proposed research project (the secondment host can also be affiliated to one of the [Implementing partners](#), except for the entrepreneurial track where all projects must have a PULSE industry secondment partner). The candidates can also browse the PULSE Associated partners to identify additional opportunities for secondments at <https://www.scilifelab.se/research/pulse/partners/#h-associated-partners>.

Applicants are requested to suggest a secondment lab at the time of application. However, secondments can also be decided later, for the approved projects.

Applicants can contact prospective co-supervisor/s to discuss and secure support for the research proposal. The rationale for further communication during the application process should be clearly specified (e.g., seeking scientific advice, discussing the proposed research, visiting lab facilities, or meeting the research team). Note that the PI is not allowed to be involved in writing the proposal.

The PIs featured in this portfolio have submitted keywords summarizing their research areas. These keywords have been consolidated at the beginning of the portfolio to help candidates identify PIs in their field of interest. Candidates can easily locate relevant PIs by using the keywords and document's search function.

# Keywords

ACT

ADME/PK

aging

AI

AI/ML

ANCA vasculitis

Analogue

animal behavior

animal model

antibiotic resistance

antimicrobial resistance

antisense

atherogenesis

autoimmunity

autoimmune diseases

automation

bacteria

behavior (fear/aggression)

biobank

Biochemistry

bioinformatics

Biomarkers

biophysics

Biostatistics

Brillouin microscopy

Burkitt Lymphoma

cancer cell invasion

cancer genomics

Cancer microenvironment

Cancer therapy

cancer vaccine

CAR-T

CD4 T cells

CD40

CD8

Cellular perturbations

cell cycle

cell homeostasis

Cell surface markers

chemoinformatics

chromatin

chromosome instability  
cognition  
comparative genomics  
Computational Biology  
computational mass spectrometry  
computational models  
conformal prediction  
Critical care medicine  
cryoEM  
cryoET  
data integration  
data pipelines  
data science  
Data services  
databases  
decision making  
dendritic cells  
Disease models  
**Disease Progression Modelling**  
DNA damage response  
Drugs and pollutants  
drug design  
drug development  
drug discovery  
drug repurposing  
drug resistance  
emerging viruses  
Energy metabolism  
epigenetics  
epigenomics  
espiratory infections  
evolutionary cell biology  
exhaustion  
exposomics  
**FAIR data**  
fatty liver  
Flaviviruses  
fluorescence microscocy  
**Fragment and ligand screening**  
functional genomics  
gene expression  
gene regulation  
genomics  
Gnotobiology

GPCRs  
GWAS  
Human Immunology  
hypothalamus  
High-content imaging  
image analysis  
imaging  
Imaging&genomics  
Immunotherapy  
immunology  
Inborn errors of metabolism (IEM)  
infection  
infectious disease  
inflammation  
Integrative -omics  
Light-sheet microscopy  
lipidomics  
Liver cancer biology  
liver diseases  
LLM use  
LNP  
long non-coding RNA  
long-read sequencing  
lysosome dysfunction  
machine learning  
macrophage polarization  
Mantle cell lymphoma  
mass spectrometry imaging  
Mathematical Epidemiology  
Medicinal chemistry  
Membrane trafficking  
memory  
metabolism  
metabolomics  
Metagenomics  
metastasis  
methods  
microbial communities  
microbiota  
Microbiota-host interactions  
Microscopy innovation  
Mitochondrial biogenesis  
mitosis  
mixed modalities

ML  
modelling  
Molecular Biology  
molecular mechanisms of disease  
Molecular mechanisms of retinal disease  
Molecular virology  
mouse  
mRNA biology  
mRNA metabolism  
MRSA  
multidrug-resistant pathogens  
multienzyme complexes with internal product/substrate transport  
multi-omics  
Multi-photon microscopy  
multiplexed imaging  
myasthenia gravis  
neural circuit dynamics  
neural tube development  
neuroscience  
obesity  
oligonucleotides  
oncogenic pioneer transcription factors  
Oncology  
Optical Coherence Microscopy  
optical instruments  
organoids  
ovarian carcinoma  
oxidized lipids  
pathogenesis  
peptides  
peptide chemistry  
pharmacometrics  
Protein design  
Protein expression  
Protein purification  
protein translocation including secretion  
protein-RNA complexes  
protein-small molecule interaction  
proteomics  
replication organelle biogenesis  
respiratory diseases  
Retinal organoids  
reverse genetics  
RNA

RNA biology  
RNA modifications  
SARS-CoV2 pathogenesis  
schizophrenia  
semantics  
Sex differences  
sex differences in immunity  
shRNA  
siRNA drug discovery and development  
skin pigmentation  
SOX11  
spatial-molecular states  
spatial omics  
structural biology  
Structural Cell Biology  
structure elucidation  
Support development (Base Matrix Magbeads resin membrane filters etc)  
surveillance  
synthesizers  
systems biology  
TCA cycle  
Tolerance  
Toxicology  
transcriptomics  
translation  
translational research  
tumor microenvironment  
vaccines  
Viral RNA replication  
virion assembly  
virus-host interactions  
VRE  
working memory

# AstraZeneca

## Thomas Lundbäck

### Country

Sweden

### Email address

thomas.lundback@astrazeneca.com



### Research key words

Drug discovery, machine learning, oligonucleotides

### Interested to collaborate in

Broad submission representing multiple interest areas and therefore different AstraZeneca investigators: Therapeutic oligonucleotides and their targeting to specific cell types and tissues. Novel technologies and readouts in transcriptomics including single cell RNAseq and other means to achieve single cell resolution. Endosomal escape of oligonucleotides. Safety testing of therapeutic oligonucleotides coupled to omics profiling and the use of machine learning for safety/property predictions. Proximity-induced pharmacology including PROTACs and molecular glues. Generative AI for property predictions. Precise genome editing technologies. Miniaturized 3D cell models focused on primary cell types and use of imaging and other multiplex readouts..

### Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

### Bio

Senior Director AstraZeneca R&D Gothenburg. 25 years of drug discovery experience. Chairman Chemical Biology & Genome Engineering platform at SciLifeLab. <https://scholar.google.com/citations?user=mMIYx30AAAAJ>

# Bonsai Biotherapeutics AB

## Maria Fernandez

### Country

Sweden

### Email address

[maria.fernandez@bonsaibtx.com](mailto:maria.fernandez@bonsaibtx.com)



### Research key words

autoimmunity, tolerance, myasthenia gravis, ANCA vasculitis, drug development

### Interested to collaborate in

autoimmunity, immune tolerance, autoimmune animal models, immunoassays

### Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

### Bio

Maria Fernandez holds a PhD in Medical Science from the University of Gothenburg, specializing in immunology and inflammation. She currently leads the Pharmacology team at Bonsai Biotherapeutics.

# CoVaRR-Net

## Hélène Decaluwe

### Organization

CHU Sainte Justine

### Country

Canada

### Email address

helene.decaluwe@umontreal.ca

### Research key words

CAR-T, shRNA, exhaustion, CD8, ACT

### Interested to collaborate in

Immunology

### Interested to host

Longer periods, 3-6 months

### Bio

Pediatric immunologist with expertise in T cell exhaustion in chronic infections and cancer. Leading impactful, well-funded research, with active mentorship and roles in international immunology committees.

# Alex Wong

## Organization

Carleton University (associated partner  
affiliation: CUBE Lab)



## Country

Canada

## Email address

AlexWong@cunet.carleton.ca

## Research key words

Metagenomics, antimicrobial resistance, infectious disease, surveillance

## Interested to collaborate in

metagenomics, molecular epidemiological methods for pathogen surveillance, next-generation sequencing, bioinformatics (more info: <https://cube-ontario.github.io/>)

## Interested to host

Longer periods, 3-6 months

## Bio

Alex Wong, PhD leads an internationally recognized program in microbial genomics. His group uses laboratory and computational approaches to study environmental microbes, including antimicrobial resistance, from both fundamental and applied perspectives.

# Angela Crawley

## Organization

Ottawa Hospital  
Research Institute -  
CoVaRR-Net Biobank

Canadian COVID-19  
**Biobank and Data**  
Alliance



Alliance canadienne des  
**biobanques et données**  
COVID-19

## Country

Canada

## Email address

[acrawley@ohri.ca](mailto:acrawley@ohri.ca)

## Research key words

immunology, biobank, infectious diseases, liver diseases, respiratory diseases

## Interested to collaborate in

blood processing, flow and/or mass cytometry, multi-parameter bioassays, molecular biology OMICS

## Interested to host

Longer periods, 3-6 months

## Bio

The Biobank leads a national network, collecting, characterizing and sharing specimens and data. Adding knowledge-value to our resources is vital for collaborations with researchers and industry.

# Louis Flamand

## Organization

Université Laval

## Country

Canada



## Email address

[louis.flamand@crchudequebec.ulaval.ca](mailto:louis.flamand@crchudequebec.ulaval.ca)

## Research key words

SARS-CoV2 pathogenesis, animal model, reverse genetics, inflammation

## Interested to collaborate in

Generation of mutant viruses, assessing pathogenic determinants

## Interested to host

Longer periods, 3-6 months

## Bio

I am full professor and head of microbiology, infectious diseases and immunology department. I conduct fundamental research on SARS-CoV-2 to better understand the pathogenesis of this virus.

# **Selena Sagan**

## **Organization**

University of British Columbia



## **Country**

Canada

## **Email address**

[selena.sagan@ubc.ca](mailto:selena.sagan@ubc.ca)

## **Research key words**

Molecular virology, Flaviviruses, Viral RNA replication, virion assembly, replication organelle biogenesis

## **Interested to collaborate in**

Structural biology, molecular virology, RNA biology

## **Interested to host**

Longer periods, 3-6 months

## **Bio**

Dr. Sagan is a Professor in the Department of Microbiology & Immunology at the University of British Columbia. Her research program focuses on RNA-RNA and protein-RNA interactions at the host-virus interface.

# Angela Rasmussen

## Organization

Vaccine and Infectious Disease Organization

## Country

Canada



## Email address

[angela.rasmussen@usask.ca](mailto:angela.rasmussen@usask.ca)

## Research key words

virus-host interactions, transcriptomics, pathogenesis, emerging viruses

## Interested to collaborate in

Virology

## Interested to host

Longer periods, 3-6 months

## Bio

I am a virologist whose research focuses on the role of the host in determining susceptibility, pathogenicity, and disease outcome during infection with highly pathogenic emerging viruses

# Cytiva Sweden AB

## Ronnie Palmgren

### **Organization**

Vaccine and Infectious Disease Organization

### **Country**

Sweden

### **Email address**

[ronnie.palmgren@cytiva.com](mailto:ronnie.palmgren@cytiva.com)

### **Research key words**

Molecular Biology, Protein design, Protein expression, Protein purification, Support development (Base Matrix, Magbeads resin, membrane, filters etc)

### **Interested to collaborate in**

Developability of new formats of drugs (proteins, viral vectors, mRNA etc) regarding design, expression and purification (In collaboration with Testa Center)

### **Interested to host**

Longer periods, 3-6 months

### **Bio**

Developability of protein drugs from research to a final therapeutic drug is a challenge. Details regarding expression, purification etc. is important to start early with in the development to be successful in the scale-up procedure.

# Cyclic Therapeutics AB

## Patrick Bryant

### Country

Sweden



### Email address

[patrick.bryant@scilifelab.se](mailto:patrick.bryant@scilifelab.se)

### Research key words

AI, peptides, drug design, GPCRs

### Interested to collaborate in

GPCR research, anything extracellular

### Interested to host

Shorter visits, up to 4 weeks

### Bio

Cyclic peptide design with advanced AI

# EATRIS

## Anna Bagnato



### Organization

IRCCS-IFO Regina Elena National Cancer Institute of Rome

### Country

Italy

### Email address

[annateresa.bagnato@ifo.it](mailto:annateresa.bagnato@ifo.it)

### Research key words

ovarian carcinoma, drug resistance, drug repurposing, tumor microenvironment, metastasis

### Interested to collaborate in

The ultimate goal of the Preclinical Models and New Therapeutic Agents Unit is to develop meaningful combinatorial strategies leading to rationally-designed (and potentially personalised) novel treatment regimens for specific cancers, exploring in pertinent preclinical models how cancer cells respond to perturbations of specific pathways and how resistance to therapies arises, being transformed into a set of mechanistic rules.

### Interested to host

Longer periods, 3-6 months

### Bio

Her research has been pointed to define the role of endothelin-1 (ET-1) axis in tumor, focusing on ovarian cancer, identifying ET-1 receptors (ET-1R) as a novel targets for anticancer therapy. In particular her group characterizes the pleiotropic effects exerted by ET-1R on tumor cells and on the tumor microenvironment, modulating tumor growth, metastasis progression and response to therapy. Recently she demonstrates that blockade of ET-1R, with the repurposing of dual ET-1R antagonists, reduces tumor growth and metastasis in patient-derived preclinical models

# Giovanni Blandino

## Organization

IRCCS-IFO Regina Elena National Cancer Institute of Rome

## Country

Italy

## Email address

[giovanni.blandino@ifo.it](mailto:giovanni.blandino@ifo.it)

## Research key words

Oncology, Translational, Biomarkers, RNA

## Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

## Bio

Graduated in Sicily as an oncologist, specialized in Milan in medical oncology, I approached research in Rome and then moved to Israel, New York and Oxford. I am now the director of the Oncological Translational Research Unit at the Istituto Nazionale dei Tumori Regina Elena.

# Virginia Amador

## Organization

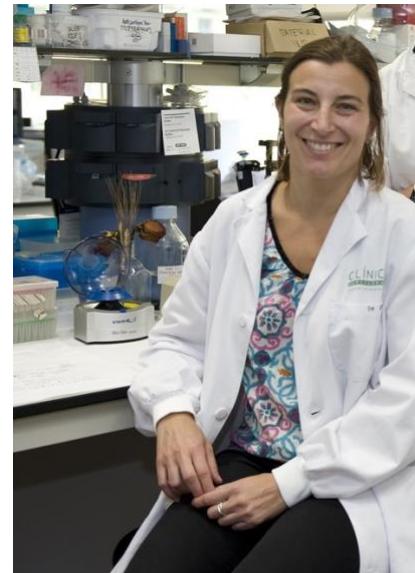
Fundació de Recerca Clínic Barcelona-Institut d'Investigacions Biomèdiques August Pi i Sunyer (FRCB-IDIBAPS)

## Country

Spain

## Email address

[vamador@recerca.clinic.cat](mailto:vamador@recerca.clinic.cat)



## Research key words

Mantle cell lymphomas, Burkitt lymphomas, SOX11, CAR-T cells, Cell surface markers

## Interested to collaborate in

Knockin CRISPR-CAS9, PROTCs, drug screening, 3D coculture systems

## Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

## Bio

Our main discoveries have been to demonstrate the oncogenic role of SOX11 and to characterize its specific transcriptional program associated with Mantle Cell Lymphoma pathogenesis

# Jaime de la Rocha



## Organization

Fundació de Recerca Clínic Barcelona-Institut d'Investigacions Biomèdiques August Pi i Sunyer (FRCB-IDIBAPS)

## Country

Spain

## Email address

[jrochav@recerca.clinic.cat](mailto:jrochav@recerca.clinic.cat)

## Research key words

decision making, working memory, animal behavior, computational models, neural circuit dynamics

## Interested to collaborate in

systems and computational neuroscience; electrophysiology and optogenetic experiments in behaving mice

## Interested to host

Longer periods, 3-6 months

## Bio

I'm the co-PI in the Brain Circuits and Behavior lab where we aim to understand the neuronal network mechanisms underlying cognitive functions such as perceptual decision making and working memory

# Albert Compte



## Organization

Fundació de Recerca Clínic Barcelona-Institut d'Investigacions Biomèdiques August Pi i Sunyer (FRCB-IDIBAPS)

## Country

Spain

## Email address

[acompte@recerca.clinic.cat](mailto:acompte@recerca.clinic.cat)

## Research key words

neuroscience, computational models, cognition, memory, schizophrenia

## Interested to collaborate in

functional magnetic resonance imaging analysis, computational neuroscience

## Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

## Bio

We are working to understand the mechanisms supporting robust working memory operation in the face of interferences and the mechanistic brain alterations that underlie cognitive dysfunctions in psychiatric disorders.

# Antoni Torres



## Organization

Fundació de Recerca Clínic Barcelona-Institut d'Investigacions Biomèdiques August Pi i Sunyer (FRCB-IDIBAPS)

## Country

Spain

## Email address

[atorres@clinic.cat](mailto:atorres@clinic.cat)

## Research key words

respiratory infections, Critical care medicine, translational research, animal models

## Interested to collaborate in

systems and computational neuroscience; electrophysiology and optogenetic experiments in behaving mice

## Interested to host

Longer periods, 3-6 months

## Bio

Prof. Torres' research group (<http://www.idibapsrespiratoryresearch.org/>) comprises seven research lines, including: 1) Nosocomial pneumonia, 2) Community-acquired pneumonia, 3) Chronic respiratory diseases, 4) Immunocompromised patients, 5) Invasive and non-invasive ventilation, 6) Animal experimentation division, 7) Basic lab for microbiology diagnosis and pathogen-host response

# Mercedes Fernandez Lobato



## Organization

Fundació de Recerca Clínic Barcelona-Institut d'Investigacions Biomèdiques August Pi i Sunyer (FRCB-IDIBAPS)

## Country

Spain

## Email address

[mlobato@recerca.clinic.cat](mailto:mlobato@recerca.clinic.cat)

## Research key words

Liver cancer biology, obesity, fatty liver, translation, aging

## Interested to collaborate in

Cancer biology, translational control, bioinformatics, obesity-related fatty liver disease models and aging-related liver mechanisms.

## Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

## Bio

Senior Group Leader at IDIBAPS specializing in translational control in liver disease and cancer, with high-quality collaborations and networking with top researchers worldwide. Proven track record in securing competitive national and international funding.

# **Paulo Gameiro**



## **Organization**

Nova Medical School - Nova University of Lisbon

## **Country**

Portugal

## **Email address**

paulo.gameiro@nms.unl.pt

## **Research key words**

Energy metabolism; Mitochondrial biogenesis; Inborn errors of metabolism (IEM); TCA cycle; RNA biology

## **Interested to collaborate in**

High-throughput screening (HTS); Mitochondrial physiology; Patient-derived cell models; CRISPR-based editing of mitochondrial DNA; Biophysical approaches to study molecular condensates.

## **Interested to host**

Longer periods, 3-6 months

## **Bio**

Our research focuses on mitochondrial energy metabolism. We harness omics-driven biochemical methods in cell models, aiming to integrate the bioenergetic and signalling mechanisms that shape mitochondrial function in health and disease.

# Sandra Tenreiro

## Organization

Nova Medical School - Nova University of Lisbon



## Country

Portugal

## Email address

stenreiro@nms.unl.pt

## Research key words

Retinal organoids; Disease models; Molecular mechanisms of retinal disease

## Interested to collaborate in

3D in vitro models; single cell omics; retinal diseases

## Interested to host

Longer periods, 3-6 months

## Bio

Focused on retinal disease mechanisms, I develop retinal organoid models (e.g. diabetic retinopathy) to support drug discovery. I collaborate on clinical studies and imaging analysis development for disease markers identification.

# Otilia Vieira

## Organization

Nova Medical School - Nova University of Lisbon

## Country

Portugal

## Email address

otilia.vieira@nms.unl.pt

## Research key words

atherogenesis, molecular mechanisms of disease, lysosome dysfunction, cell homeostasis, oxidized lipids

## Interested to collaborate in

We are interested in collaborating with laboratories that have microphysiological systems (human blood vessels) to test the biological activity of a new family of oxidized lipids identified by our group in plasma and human endarterectomy specimens.

## Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

## Bio

I am the Principal Investigator of the group Lysosomes and Disease and Assistant Professor with Habilitation (Agregação) at NOVA MEDICAL SCHOOL (NMS), Universidade Nova de Lisboa. The primary goal of my research is to elucidate the biochemical and biological mechanisms driving the onset of atherosclerosis, and subsequently translate this knowledge through advanced analytical chemical techniques to predict cardiovascular disease (CVD) risk in clinical settings.

# Jorge M. Mendes

## Organization

Nova Medical School - Nova University of Lisbon



## Country

Portugal

## Email address

jorge.mendes@nms.unl.pt

## Research key words

Mathematical Epidemiology; Disease Progression Modelling; Biostatistics

## Interested to collaborate in

Disease Progression Modelling; Medical Image Processing; Machine Learning in Healthcare; Early Diagnosis

## Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

## Bio

Currently Associate Professor at NOVA Medical School (NMS). His research interests range from environmental statistics, biostatistics and survey methodology to quantitative methods for social sciences. He is member of CHRC at NMS.

# Duarte Barral

## Organization

Nova Medical School - Nova University of Lisbon

## Country

Portugal

## Email address

duarte.barral@nms.unl.pt

## Research key words

Membrane trafficking, skin pigmentation, cancer cell invasion, organoids

## Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

# **Dace Pjanova**

## **Organization**

Riga Stradiņš University, Institute of Microbiology and virology



## **Country**

Latvia

## **Email address**

dace.pjanova@rsu.lv

## **Research key words**

Cancer microenvironment, dendritic cells, macrophage polarization, microbial communities

## **Interested to collaborate in**

Cancer immunotherapy, flow cytometry

## **Interested to host**

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

## **Bio**

PhD degree in Molecular Biology, tenured professor at the Rīga Stradiņš University. Research directed towards cell biology with a particular respect to cancer treatment resistance and immunotherapies.

# EMBL

## Sebastian Eustermann

### Organization

EMBL

### Country

Germany



### Email address

sebastian.eustermann@embl.de

### Research key words

Structural Cell Biology, cryoEM, cryoET, biophysics, chromatin, gene expression, Epigenetics, DNA damage response, Cancer therapy

### Interested to collaborate in

Structural biology, chromatin biology, structural cell biology, biochemistry

### Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

### Bio

The overarching goal of my group is to understand fundamental principles by which the supra-molecular organization of chromatin governs eukaryotic genome regulation, and its impact on human health.

# Jessica Ewald



## Organization

EMBL-EBI

## Country

United Kingdom

## Email address

[jewald@ebi.ac.uk](mailto:jewald@ebi.ac.uk)

## Research key words

High-content imaging, toxicology, cellular perturbations, machine learning, multi-omics

## Interested to collaborate in

Environmental toxicology, drug discovery, virtual cell

## Interested to host

Longer periods, 3-6 months

## Bio

Jess Ewald is a Group Leader at EMBL-EBI. Her research is focused on identifying and characterising chemical hazards to humans and ecosystems with cell profiling data, machine learning, and integrative data analysis.

# **Eva Kowalinski**

## **Organization**

EMBL

## **Country**

France

## **Email address**

[kowalinski@embl.fr](mailto:kowalinski@embl.fr)

## **Research key words**

Biochemistry, RNA, RNA modifications, , protein-RNA complexes, cryoEM, structural biology

## **Bio**

<https://www.embl.org/groups/kowalinski/>

# Cornelius Gross

## Country

Italy

## Email address

[gross@embl.it](mailto:gross@embl.it)



## Research key words

neuroscience mouse behavior fear aggression hypothalamus

## Interested to collaborate in

human cohort data that links brain function to psychiatric disease risk

## Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

## Bio

We study how territorial context and social experience modulate social threat responses in mice. We study the role of the medial hypothalamus in these behaviors and their adaptation to changing social environments. In humans electrical stimulation of these areas elicits aversive social emotions like shame and encode verbally elicited emotional states. We are also very interested in the role of sexual dimorphism in these areas in sex differences in such emotional behaviors and states.

# Robert Prevedel

## Country

Germany

## Email address

[prevedel@embl.de](mailto:prevedel@embl.de)



## Research key words

Microscopy innovation, Multi-photon microscopy, Brillouin microscopy, Light-sheet microscopy, Optical Coherence Microscopy

## Interested to collaborate in

other microscopy developers (especially computational), cell- and development biologists, neuroscience

## Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

## Bio

The focus of our group at EMBL is to push the frontiers of deep tissue microscopy in terms of imaging depths and resolution by developing advanced and innovative optical imaging techniques. To do so we draw from diverse fields such as multi-photon microscopy, active wave-front shaping, photo-acoustics, computational imaging as well as high-resolution spectroscopy.

# Jan Korbel

**Country**  
Germany

**Email address**  
[korbel@embl.de](mailto:korbel@embl.de)



**Research key words**  
Imaging&genomics, cancer genomics, chromosome instability

**Interested to collaborate in**

**Interested to host**  
Longer periods, 3-6 months

## Bio

Our group investigates genomic structural variants, including complex chromosomal rearrangement events in normal tissues and in disease contexts. Our group's principal research objective is to understand genomic structural variations as a basis of phenotypic variation and cancer development.

# Matthias Wilmanns

## Country

Germany

## Email address

[matthias.wilmanns@embl-hamburg.de](mailto:matthias.wilmanns@embl-hamburg.de)



## Research key words

infection, protein translocation including secretion, multienzyme complexes with internal product/substrate transport

## Interested to collaborate in

structural biology (X-ray based, EM, integrative modelling, computational), biophysical approaches, biochemistry, quantification of interactions

## Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

## Bio

Matthias Wilmanns was Head of the EMB Hamburg Unit from 1997 to 2024, and remains a Group Leader and Senior Scientist. He holds a professorship at the Medical Faculty of the University of Hamburg

# Helen Parkinson



**Organisation**  
EBI

**Country**  
United Kingdom

**Email address**  
[parkinson@ebi.ac.uk](mailto:parkinson@ebi.ac.uk)

**Research key words**  
Data, services, GWAS, Semantics, LLM use

**Interested to collaborate in**  
Use of AI for data readiness, and data service delivery

**Interested to host**  
Longer periods, 3-6 months

**Bio**  
Helen leads the Samples, Phenotypes and Ontologies team, delivering genomic resources and semantic tools. Trained as a geneticist, Helen's research prior to joining EMBL focused on Drosophila biology, behaviour, molecular biology and medical genetics. In 1999 she shifted focus to bioinformatics and computational biology while performing positional cloning to identify the causal gene for primary pulmonary hypertension. Helen's passion is semantic data integration and providing users with high quality data at scale. The team participates in external collaborations ranging from data analysis and generation projects to infrastructural integration projects.

# Anna Kreshuk

## Country

Germany

## Email address

anna.kreshuk@embl.de

## Research key words

AI, ML, image analysis

## Interested to host

Longer periods, 3-6 months

# Maria Zimmermann-Kogadeeva

## Country

Germany

## Email address

[maria.zimmermann@embl.de](mailto:maria.zimmermann@embl.de)

## Research key words

microbiota, metabolism, modelling, multi-omics



## Interested to collaborate in

Microbial ecosystems, computational biology, experimental microbiology, metabolic modelling

## Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

## Bio

I am an interdisciplinary scientist investigating how the complex properties of a biological system emerge from the interactions of its parts. My lab combines multi-omics data integration and mathematical modelling to investigate molecular interactions within microbes and between microbes and their host.

# Michael Zimmermann

## Country

Germany

## Email address

[michael.zimmermann@embl.de](mailto:michael.zimmermann@embl.de)



## Research key words

Metabolomics, Microbiota-host interactions, Gnotobiology, Drugs and pollutants

## Interested to collaborate in

Experimental microbiome work, microbiome-dependent diseases, metabolomics and lipidomics, environmental microbiology

## Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

## Bio

Group Leader and Head of the Metabolomics Core Facility, microbiota-host metabolic interactions, ERC Investigator.

# Gautam Dey

## Country

Germany

## Email address

[gautam.dey@embl.de](mailto:gautam.dey@embl.de)

## Research key words

evolutionary cell biology, cell cycle, mitosis, comparative genomics, imaging

## Interested to collaborate in

Marine microbiology, functional genomics, phylogenetics, imaging

## Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

## Bio

Group Leader at EMBL since 2021, evolutionary cell biology of mitosis and nuclear remodelling. ERC Investigator.

# Alvaro Crevenna

## Country

Italy

## Email address

[alvaro.crevenna@embl.it](mailto:alvaro.crevenna@embl.it)



## Research key words

fluorescence microscopy, spatial -omics, optical instruments, image analysis, automation

## Interested to collaborate in

microscope development, imaging-based spatial -omics, image analysis

## Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

# Jose Antonio Marquez



## Country

France

## Email address

[marquez@embl.fr](mailto:marquez@embl.fr)

## Research key words

Structural Biology, Fragment and ligand screening

## Interested to collaborate in

Ligand/Fragment screening, Translational biology

## Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

## Bio

Head of the HTX lab, my team has developed unique technology enabling high through approaches in structural biology and including automated pipelines for large scale X-ray based ligand and fragment screening .These pipelines, can be applied to the development of small molecule probes to investigate function in vivo and to establish proof for the therapeutic or biotechnology potential of novel molecular targets.

# John Lees

## Organization

EMBL-EBI (European Bioinformatics Institute)

## Country

United Kingdom

## Email address

[jlees@ebi.ac.uk](mailto:jlees@ebi.ac.uk)

## Research key words

bacteria, genomics, methods, infection, modelling

## Interested to collaborate in

Infectious disease epi, genetics or modelling. Evolutionary analysis. Sequencing technologies

## Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

## Bio

I'm a research group leader at EMBL-EBI. I work on bioinformatics and software, statistical genetics and mathematical modelling – mostly on bacterial pathogens but sometimes on other microbes too.

# Julio Saez-Rodriguez

## Organization

EMBL-EBI (European Bioinformatics Institute)

## Country

United Kingdom

## Email address

[saezlab@ebi.ac.uk](mailto:saezlab@ebi.ac.uk)

## Research key words

systems biology, data integration

## Interested to collaborate in

data analysis of single-cell, spatial, multi-omics

## Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

# Sinem Saka

## Country

Germany

## Email address

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## Research key words

Spatial omics, multiplexed imaging, spatial-molecular states

## Interested to collaborate in

Subcellular spatial omics, spatial multi-omics, multiplexed labeling and advanced imaging, DNA barcoding and labeling chemistries, proximity detection, image analysis, utilization of atlases and foundational models for data analysis, spectral unmixing, fluorescence signal amplification, subcellular profiling

## Interested to host

Longer periods, 3-6 months

## Bio

My group develops DNA-nanotechnology-driven imaging and spatial omics tools to decode cellular and tissue organization across scales, enabling multiplexed protein/RNA mapping and linking molecular state with spatial architecture.

# Juan Antonio Vizcaino

## Organization

EMBL-EBI (European Bioinformatics Institute)



## Country

United Kingdom

## Email address

[juan@ebi.ac.uk](mailto:juan@ebi.ac.uk)

## Research key words

proteomics, metabolomics, computational mass spectrometry, data pipelines, FAIR data

## Interested to collaborate in

proteomics, metabolomics, computational biology

## Interested to host

Longer periods, 3-6 months

## Bio

I am leading the Proteomics and Metabolomics Team at the European Bioinformatics Institute

# Fondazione Human Technopole (HTP)

## Piero Carninci

### Country

Italy

### Email address

[piero.carninci@fht.org](mailto:piero.carninci@fht.org)



### Research key words

gene regulation; functional genomics; epigenetics; transcriptomics; long non-coding RNA

### Interested to collaborate in

functional genomics, long non-coding RNA function

### Interested to host

Longer periods, 3-6 months

### Bio

I am a geneticist, who has been conceiving, creating, and developing several technologies to map genes, their function, and regulation, including CAGE, RADICL-seq, and Full-length cDNA cloning (<https://humantechnopol.e.it/en/people/piero-carninci/>)

# Ivano Legnini

## Country

Italy

## Email address

[ivano.legnini@fht.org](mailto:ivano.legnini@fht.org)



## Research key words

RNA biology; mRNA metabolism; long-read sequencing; neural tube development; organoids

## Interested to collaborate in

RNA biology; Neurodevelopmental biology

## Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

## Bio

Group Leader in Molecular and Systems Biology of RNA. We work on mRNA metabolism and homeostasis in Eukaryotic cells, as well as neurodevelopment with organoids.

# Lorenzo Calviello

## Country

Italy

## Email address

[Lorenzo.calviello@fht.org](mailto:Lorenzo.calviello@fht.org)



## Research key words

Translation, Computational Biology, Transcriptomics, mRNA biology, Integrative -omics

## Interested to collaborate in

Translation regulation, functions of alternative transcripts, Proteogenomics methods, single-nucleotide dissection of protein/RNP binding.

## Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

## Bio

PhD at MDC-BIMSB with Uwe Ohler in designing computational methods for translation and transcriptomics integration, Postdoc at UCSF studying RNA binding proteins regulating translation, Group Leader at HT since 2021 leading a mixed dry-wet lab studying the link between translation and other aspects of mRNA processing at -omics scale.

# Max-Delbrück-Centrum für Molekulare Medizin (MDC)

## Cornelia Kaloff

**Country**

Germany

**Email address**

[Cornelia.Kaloff@mdc-berlin.de](mailto:Cornelia.Kaloff@mdc-berlin.de)

**Website**

<https://www.mdc-berlin.de/en>

## Ulf Tedebark

### Country

Sweden

### Email address

[ulf.tedebark@peptisystems.com](mailto:ulf.tedebark@peptisystems.com)

### Research key words

Peptide, oligonucleotide, analogues, mixed modalities, synthesizers

### Interested to collaborate in

Mixed modalities where peptides and/or oligonucleotides are conjugated to a final construct.

### Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

### Bio

<https://www.peptisystems.com/>

# Prosilico AB

## Urban Fagerholm

**Country**  
Sweden



Urban Fagerholm  
CEO, Assoc. Prof.  
Pharmacokineticist

Sven Hellberg  
Vice CEO, PhD  
Computational chemist

Ola Spjuth  
Professor  
Pharmaceut., Bioinform.

Morgan Ekmefjord  
CTO, Software &  
system engineer

**Email address**  
[urban.fagerholm@prosilico.com](mailto:urban.fagerholm@prosilico.com)

**Research key words**  
AI/ML – ADME/PK – conformal prediction – modelling – chemoinformatics

**Interested to collaborate in**  
AI/ML – ADME/PK – toxicology – modelling – chemoinformatics

**Interested to host**  
Longer periods, 3-6 months

## Bio

PROSILICO is a Swedish company focusing on the research and development of innovative technologies to provide high quality estimates of human ADME/PK directly from chemical structure.

# Qure Tech Bio AB

## Mari Bonde

### Country

Sweden

### Email address

[mari.bonde@quretech.com](mailto:mari.bonde@quretech.com)

### Research key words

Drug development, antibiotic resistance, multidrug-resistant pathogens, VRE, MRSA

### Interested to collaborate in

Medicinal chemistry, microbiology, bioinformatics, high-throughput screening

### Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

### Bio

QureTech Bio AB (QTB) is a biotechnology company in Umeå focused on developing a new class of antibiotics, GmPcides, that are effective against multidrug resistant Gram-positive bacteria.

# Ribocure Pharmaceuticals AB

## Julia Grönros

### Country

Sweden

### Email address

[julia.gronros@ribocure.com](mailto:julia.gronros@ribocure.com)



### Research key words

siRNA drug discovery and development

### Interested to collaborate in

Cardiometabolic diseases, neurology, oligonucleotide drug discovery

### Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

### Bio

Ribocure develops RNA-based therapies to improve treatment for cardiovascular and metabolic diseases. Our focus is on precision medicine and siRNA technologies that aim to deliver safer, longer-lasting solutions for patients.

# RG Discovery AB

## Björn Borgström

### Country

Sweden

### Email address

[bjorn.borgstrom@rgdiscovery.com](mailto:bjorn.borgstrom@rgdiscovery.com)

### Research key words

Medicinal chemistry, peptide chemistry, drug discovery, structure elucidation, protein-small molecule interaction

### Interested to collaborate in

Medicinal chemistry, peptide chemistry, ADME, computational chemistry, NMR, in-vitro screening

### Interested to host

Longer periods, 3-6 months

### Bio

RG Discovery is a CRO working with integrated drug discovery within small molecules and peptides collaborating with both academia, biotech and big pharma.

# Strike Pharma

## Tina Furebring

### Country

Sweden

### Email address

[tina.furebring@strikepharma.com](mailto:tina.furebring@strikepharma.com)

### Research key words

LNP; antisense; cancer vaccin; CD40

### Interested to collaborate in

Precision medicine using our ADAC technology for targeted delivery of oligos, peptides or LNPs. We have so far focused on cancer vaccine but we are also interested in autoimmunity.

### Interested to host

Longer periods, 3-6 months

### Bio

Tina Furebring has 25 years' experience in developing monospecific and bispecific antibodies for cancer treatment. Extensive experiences in management of discovery, preclinical as well as early clinical projects.

# University of Turku

## Matej Oresic

### Country

Finland

### Email address

[matej.oresic@utu.fi](mailto:matej.oresic@utu.fi)



### Research key words

metabolomics, lipidomics, exposomics, mass spectrometry imaging

### Interested to collaborate in

metabolomics, proteomics, exposome research, mass spectrometry imaging

### Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

### Bio

Matej Oresic is professor of medicine at Örebro University and professor of biochemistry at the University of Turku. His main research areas include exposomics and metabolomics applications in biomedical research.

# VIB

## Helena Soares

### Organization

Nova Medical School - Nova University of Lisbon



### Country

Portugal

### Email address

[Helena.soares@nms.unl.pt](mailto:Helena.soares@nms.unl.pt)

### Research key words

Human Immunology, Sex differences; autoimmune diseases; vaccines

### Interested to collaborate in

systems immunology, human immunology

### Interested to host

Shorter visits, up to 4 weeks, and longer periods, 3-6 months

### Bio

I have headed the Human Immunobiology Lab for the past 10 years and established a fruitful collaboration network with multiple hospitals in Lisbon area. We merge curiosity driven research with applicability.