Co-funded by the European Union

SciLifeLab

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
Analogues
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 vaccin
CAR-T
CD4 T cells
CD40
CD8
Cellular pertubations
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 microscoy
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
Immunetherapy
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
multienzyem 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=mMlYx30AAAAJ

Bonsai Biotherapeutics AB

Maria Fernandez

Country
Sweden

Email address
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

Country
Canada

Email address
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

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

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

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

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

Interested to collaborate in
Developility 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

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

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

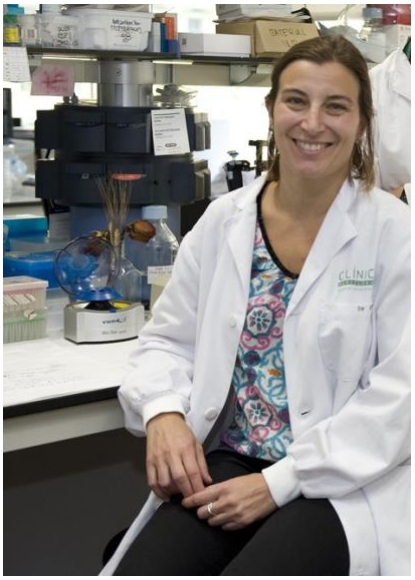
Email address
giovanni.blandino@ifo.it

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

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

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

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

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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

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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

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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

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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

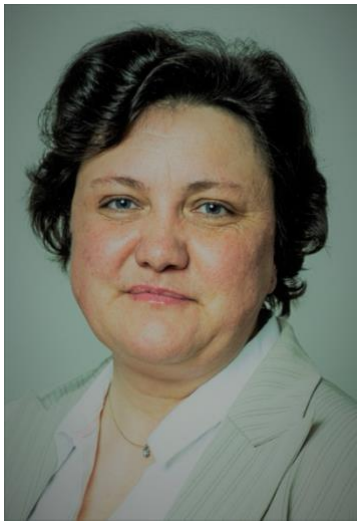
Organization
Nova Medical School - Nova University of Lisbon

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

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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

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

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

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 intersted in the role of sexual dimorphism in these areas in sex differences in such emotinal behaviors and states.

Robert Prevedel

Country
Germany

Email address
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

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

Research key words
infection, protein translocation including secretion, multienzyem 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

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

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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

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

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

Research key words
fluorescence microscoy, 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

Research key words
Structural Biology, Fragment and ligand screeing

Interested to collaborate in
Ligand/Fragment screeing, 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

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

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
sinem.saka@embl.de

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

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

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://humantechnopole.it/en/people/piero-carninci/)

Ivano Legnini

Country
Italy

Email address
ivano.legnini@fht.org

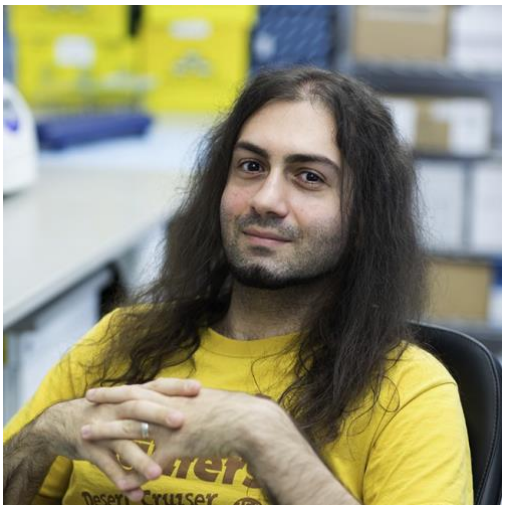
Research key words
RNA biology; mRNA metabolism; long-read sequencing; neural tube development; organoids

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

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 desining 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 studing the link between translation and other aspects of mRNA processing at -omics scale.

Magda Bienko

Country
Italy

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magda.bienko@fht.rog

Research key words
3D genome organization, epigenomics

Interested to collaborate in
omics, FISH, tech dev

Interested to host
Longer periods, 3-6 months

Bio
Group leader at both SciLifeLab and Human Technopole focusing on the design principles of 3D genome organization using both NGS- and FISH-based methods.

Max-Delbrück-Centrum für Molekulare Medizin (MDC)

Cornelia Kaloff

Country
Germany

Email address
Cornelia.Kaloff@mdc-berlin.de

Website
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PeptiSystems AB

Ulf Tedebark

Country
Sweden

Email address
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

Email address
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

Research key words
Drug development, antibiotic resistance, multidrug-resistant pathogens, VRE, MRSA

Interested to collaborate in
Medicinal chemistry, microbiology, bioinfomatics, 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

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

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

Research key words
LNP; antisense; cancer vaccin; CD40

Interested to collaborate in
Precision medicine using our ADAC techonolgy for targeted deliery of oligos, peptides or LNPs. we have so far focused on cancer vaccine but we are also interseted in autominnuity.

Interested to host
Longer periods, 3-6 months

Bio
Tina Furebring has 25 years' experience in developing of 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

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

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.