Cell Communication Research Program (CellCom)

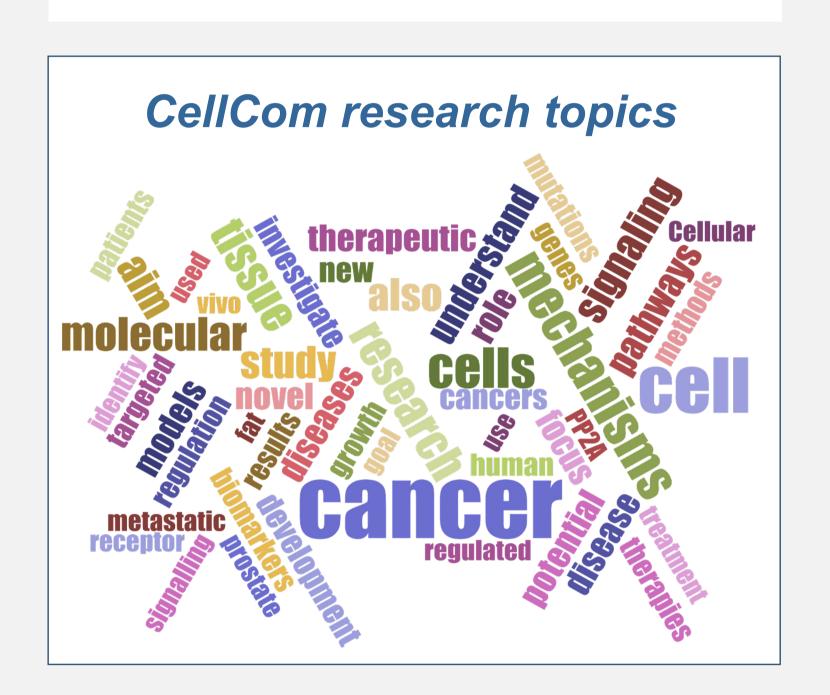
Chairs: Annika Meinander (Åbo Akademi University) and Emilia Peuhu (University of Turku)

CellCom brings together local researchers and clinicians with common interest in cellular signaling and communication ranging from basic mechanisms to clinical translation

Aims

- 1) Internationally recognized high-quality basic research with potential for translational applications
- 2) Networking sessions, seminars, workshops and invitation of leading international scientists
- 3) Excellent training and mentorship for early career researchers and junior group leaders
- 4) Development of state-of-the-art technology platforms and infrastructure
- 5) Bringing interdisciplinarity and clinical relevance to basic research
- 6) Promoting technology transfer and commercialization

Principal Investigators





Turku University

Lea Sistonen

Activities

CellTalks Annual Symposium

Monthly PI lunches

Methods

Cell culture

Microscopy

Flow cytometry

Mechanobiology

InFLAMES
Solution is in Immunity

Training of early career scientists

Networks & Infrastructure





Cell and molecular biology

Image analysis and Al

Tissue clearing

TURKU

Organotypic cell culture

"We investigate the biological functions and molecular mechanisms of the small GTPase RAB24" EEVA-LIISA ESKELINEN UNIVERSITY OF TURKU

"We use high-resolution

microscopy to study cell

GUILLAUME JACQUEMET

ÅBO AKADEMI UNIVERSITY

migration"

BF

Biocenter Finland

CellCom seminars

Histology

FICANWest

TYKS #

Model organisms

Clinical research

Disease models

Junior PI mentoring



non-*lg* genes

"We investigate the pathophysiology and treatment of breastcancer related lymphedema" PAULIINA HARTIALA

"We identify targets

regulating harmful cell

traffic in cancer and

inflammations"

SIRPA JALKANEN

UNIVERSITY OF TURKU

"We investigate how

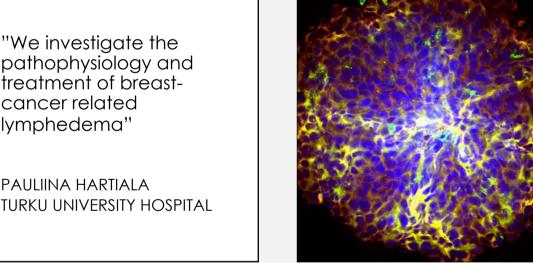
targeted within the

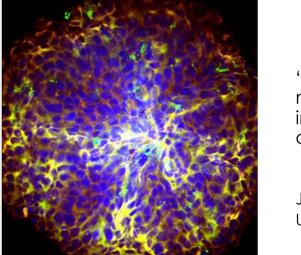
JUKKA ALINIKULA

UNIVERSITY OF TURKU

genome'

somatic hyper- mutation is







"We study how protein

regulates cancer cell

phosphorylation

growth"

OTTO KAUKO

UNIVERSITY OF TURKU

"We seek druggable

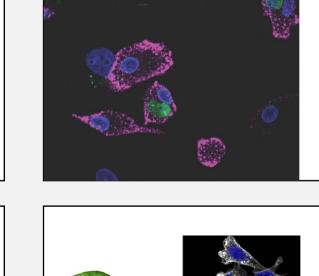
of neural cell

communication"

MICHAEL COURTNEY

UNIVERSITY OF TURKU

mechanisms in diseases





"We study how PIM kinases, their inhibitors

regulate cancer cells

or other agents

or C. elegans"

PÄIVI KOSKINEN

UNIVERSITY OF TURKU

"We discover when

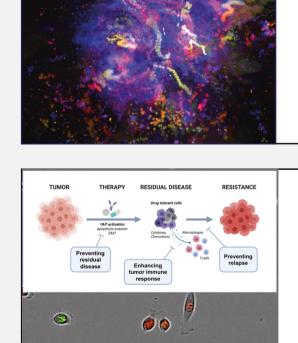
and how to target

signaling in cancer"

UNIVERSITY OF TURKU

growth factor

KLAUS ELENIUS



"We study cancer therapy resistance"

"We study the

ECM in cancer"

JOHANNA IVASKA

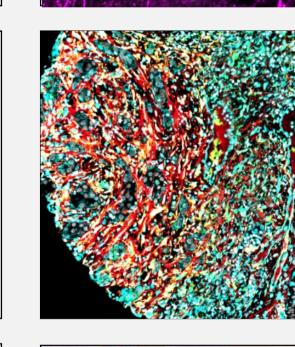
TURKU BIOSCIENCE

KARI KURPPA

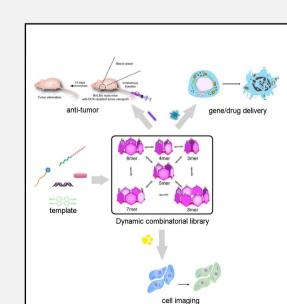
UNIVERSITY OF TURKU

mechanics and biology

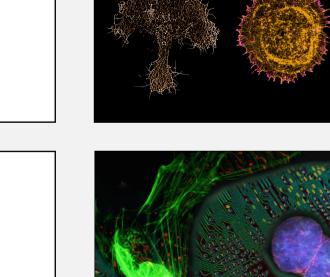
of adhesions and the



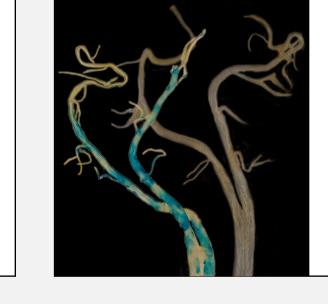
"We study molecular mechanisms of skin cancer invasion and metastasis" VELI-MATTI KÄHÄRI UNIVERSITY OF TURKU TURKU UNIVERSITY HOSPITAL



"We use the tools of dynamic combinatorial chemistry to explore macrocycles for applications in biomedicine" JIANWEI LI UNIVERSITY OF TURKU



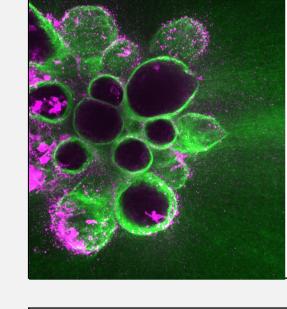
"We want to understand how B lymphocytes get activated" PIETA MATTILA UNIVERSITY OF TURKU



'We study how ubiquitin chains transduce inflammatory signals through the cell"

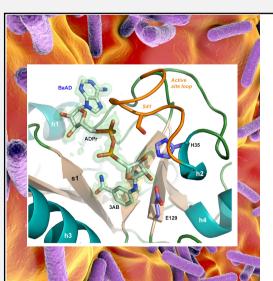
ANNIKA MEINANDER

åbo akademi university

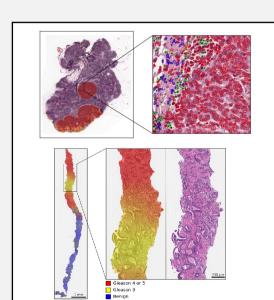


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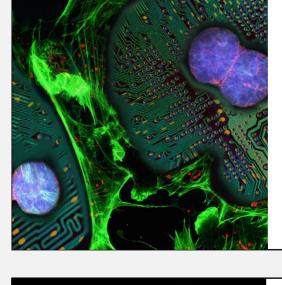
"We investigate how the mammary gland forms... ...and how the form affects breast cancer progression" EMILIA PEUHU UNIVERSITY OF TURKU



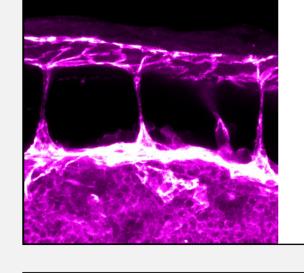
"We study how bacterial toxins damage host cells, and develop toxintargeted next-generation antibacterial drugs" ARTO PULLIAINEN UNIVERSITY OF TURKU



'We study how computational tools can be used to interpret biomedical images" PEKKA RUUSUVUORI UNIVERSITY OF TURKU



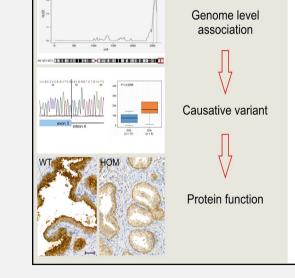
"We want to understand how cells make cell fate decisions in complex environments" CECILIA SAHLGREN **ÅBO AKADEMI UNIVERSITY**



"We study lymphatic and blood vascular barrier function in regulation of the immune response"

MARKO SALMI

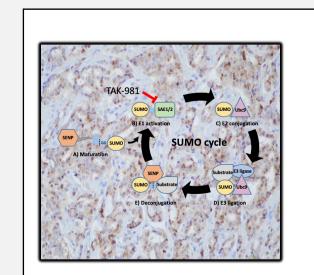
UNIVERSITY OF TURKU



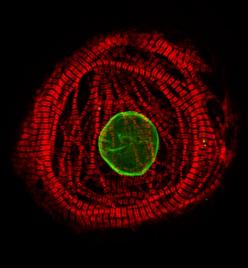
"We identify and investigate genes causing genetic cancer predisposition" JOHANNA SCHLEUTKER UNIVERSITY OF TURKU



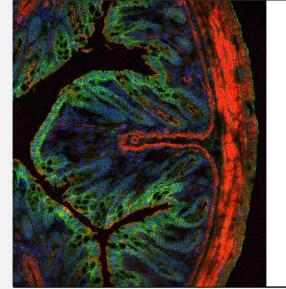
"We study transcriptional regulation at the crossroads of cell stress and differentiation" LEA SISTONEN ÅBO AKADEMI UNIVERSITY



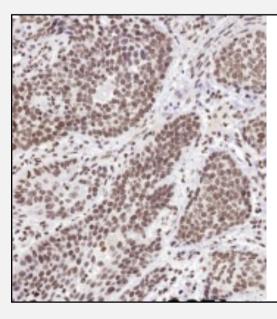
"We study aberrations of DNA repair pathways and SUMOylation in cancer" MARIA SUNDVALL UNIVERSITY OF TURKU TURKU UNIVERSITY HOSPITAL



"We study how inherited mutations in nuclear lamins lead to myocardial degeneration and heart failure" PEKKA TAIMEN UNIVERSITY OF TURKU TURKU UNIVERSITY HOSPITAL

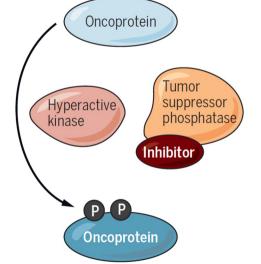


"We study keratin-related disease mechanisms in inflammatory bowel disease, colorectal cancer and diabetes' DIANA TOIVOLA ÅBO AKADEMI UNIVERSITY



"We aim to identify novel cancer biomarkers for head and neck cancers'





dynamic combinatorial chemistry to explore macrocycles for applications in biomedicine" JUKKA WESTERMARCK UNIVERSITY OF TURKU

"We use the tools of







