

SCIENTIFIC PROGRAM

Monday, May 19, 2025

12:00 Registration and check-in at the Elsa-Brändström Conference Center

Session #1

15:00-15:10 Opening remarks
Eckart D. Gundelfinger (Chair of the Blankenese Conference)

15:10-15:20 Welcome address JUNG Stiftung
Jochen Spethmann (Member of the Board of Trustees, JUNG-Stiftung)

15:20-15:30 Welcome address UKE
Tim Magnus (UKE Neurology Department director and member of the scientific committee meeting of Blankenese 2025)

JUNG-lecture (1) **Ivan Dikić**
Outer membrane vesicles in host-pathogen interactions
15:30-16:15

Session #2

Chairs: Stephan Kins/ Meike Saul

16:15-16:45 **Mario Gimona**
Clinical application of EV-based therapeutics

16:45-17:15 **Klaus Pantel**
EV-based liquid biopsy: From discovery to clinical implementation

17:15-17:45 Coffee break

17:45-18:15 **Lidia Alvarez-Erviti** (GBM-supported talk)
Gene therapy for neurodegenerative disease treatment using extracellular vesicles

18:15-18:45 **Samir El-Andaloussi**
Targeted delivery of gene editors and mRNA therapeutics using genetically engineered exosomes

18:50 Welcome Reception & Dinner

Tuesday, May 20, 2025

Session #3

Chairs: Franz Ricklefs / Berta Puig

9:00 - 9:30

Guillaume Van Niel

Fundamental role of CD63 and its harnessing in the study of extracellular vesicles

9:30 - 10:00

Meike Saul

Understanding extracellular vesicles: functional roles and methodological perspectives in cancer research

10:00-10:30

Franz Ricklefs

Extracellular vesicles ins CNS pathophysiology and their biomarker potential

10:30-12:00

Poster Session 1

with coffee served at the posters

12:00-12:30

Selected talks from Abstracts

12:30-13:00

Luca Peruzzotti-Jametti

Targeting CNS metabolic dysfunction with extracellular vesicles

13:00-14:00

Lunch Break

Session #4

Chairs: Markus Glatzel / Fabian Braun

14:00-14:30

Roosmarijn Vandenbroucke

Extracellular vesicles in the communication between periphery and brain

14:30-15:00

Efrat Levy

The role of mitovesicles in the brain with mitochondrial dysfunction

15:00-15:30

Berta Puig

Decoding stroke pathophysiology and recovery through extracellular vesicle analysis

15:30-16:00

Britta Betin

From challenge to opportunity: a methodology to measure reproducible EV concentrations

16:00-16:30

Coffee Break

JUNG-lecture

Stefan Rose-John

(2)

Local and systemic effects of Interleukin-6: therapeutic perspectives

16:30-17:15

17:15-17:45

Catherine Shanahan

The role of extracellular vesicles in vascular ageing pathologies

17:45-18:15

Tuomas Lilius

The Glymphatic System: implications for brain metabolite clearance and drug delivery

18:15-19:30

Poster Session 2

with drinks served at the posters

19:30

Dinner and get together

Wednesday, May 21, 2025

KEYNOTE **Ken Witwer**
lecture *EV burden and biodistribution: from the CNS to the periphery*
9:00-9:40

Session #5 Chairs: Jörg Bartsch / Katarzyna Grochowska
9:40-10:10 **Jaime Arroyo Ortega**
Isolation- and label-free optofluidic platform for single extracellular vesicle characterization
10:10-10:40 **Paolo Bergese**
The physico-chemical landscape of extracellular vesicles

10:40-11:00 Coffee Break

11:00-11:30 **Thierry Galli**
Role of Late Endosomal Autophagy-Dependent Secretion of ER and Mitochondrial Components in Cell Fitness and Communication

11:30-12:00 **Matthias Kneussel**
EV targeting in donor neurons and EV docking to target neurons

12:00-12:30 **Eva-Maria Krämer-Albers** (GBM-supported talk)
Extracellular vesicles in neuron-glia communication and CNS homeostasis

AWARDING OF POSTER PRIZES and CLOSING REMARKS

13:00 Lunch to go