

Program of the ISEV Workshop “EV imaging in vivo”
19-20th March 2020, IPNP Paris

*Please note: morning sessions are open to all registrants;
Afternoon sessions are by invitation only, based on previously reviewed applications.
If you are not a Workshop invitee, kindly register here to attend the morning sessions:
<https://www.surveymonkey.com/r/JP758J6>*

Thursday 19 March

- 8.00-9.00 Registration/Coffee
- 9.00-9.30 Welcome, introduction (“Why this workshop?”), practical info
Guillaume van Niel and Kenneth Witwer

Session I | *Technological developments (dyes, reporters, imaging technics) for EV imaging*

Chairs: Xavier Loyer and Leonora Balaj

- 9.30- 10.15 *Keynote* | **Dave Carter, Oxford, UK**
Dyeing to see you: The challenges of visualising EV uptake
- 10.15-10.30 Short talk | **Anna Labdez-Maslowska, Krakow, Poland**
Imaging of mesenchymal stem cell-derived extracellular vesicles (MSC-EVs) in ischemic tissues: focus on two in vivo models
- 10.30-10.45 Short talk | **Farid Faruqu, London, UK**
Membrane Radiolabelling of Exosomes for Comparative Biodistribution Analysis in Immunocompetent and Immunodeficient Mice: A Novel and Universal Approach
- 10.45-11.00 Short talk | **Olivier Blanc-Brude, Paris, France**
Radiotrackers versus Fluorescence trackers for non-invasive imaging of EV biodistribution in vivo
- 11.00-11.15 Sponsor talk | **Malvern**
- 11.15-11.45 Coffee break – 30 min sponsor exhibition + poster session I

Session II | *Model organisms (cells, fly, worm, mouse, fish...) for EV imaging*

Chairs: Vincent Hyenne and Gisela d'Angelo

- 11.45-12.30 *Keynote* | **Jacky Goetz, Strasbourg, France**
TBA
- 12.30-12.45 Short talk | **Julia Gross, Göttingen, Germany**
In vivo Drosophila model for EV secretion
- 12.45-13.00 Short talk | **Katharina Beer, Würzburg, Germany**
Degron-tagged reporters enable visualization of extracellular vesicles in vivo
- 13.00-13.15 Short talk | **Barbara Adem, Porto, Portugal**
ExoBow: The spatiotemporal biodistribution of pancreatic cancer extracellular vesicles
- 13.15-13.30 Sponsor talk | **Myriade**

13.30-14.45 Lunch break/ sponsor exhibition/ poster viewing

14.45-16.15 Roundtables I and II (part 1)

Roundtable I: Technological developments for EV imaging

Chairs/Discussion Leaders: Dave Carter, Xavier Loyer, Leonora Balaj, Hidetoshi Tahara

Roundtable II: Model organisms for EV imaging

Chairs/Discussion Leaders: Vincent Hyenne, Gisela d'Angelo, Chantal Boulanger, Julia Gross

16:15-16:45 Coffee break – sponsor exhibition 30 min + poster session II

16.45-18.15 Roundtables I and II (part 2)

18.15-18.30 Short break

18.30-19.15 Wrap up presentations Roundtables I and II

19.30-22.00 Dinner with all Workshop invitees
(L'EXCUSE 219 rue de Tolbiac)

Friday 20 March

8.00-8.20 Welcome/Coffee

8.20-8.30 Introduction day 2
Frederik Verweij

Session III | *Imaging EV biogenesis, release and spread*

Chairs: Clotilde Théry and Guillaume van Niel

8.30-9.15 *Keynote* | **Kirsi Rilla, Kuopio, Finland**
Role of hyaluronan in EV biology

9.15-9.30 Short talk | **Darja Bozic, Ljubljana, Slovenia**
Formation of extracellular vesicles during the sample processing: the basic mechanisms of vesiculation.

9.30-9.45 Short talk | **Alex Marki, San Diego, USA**
Elongated extracellular vesicles are released into the blood stream by rolling and migrating neutrophils

9.45-10.00 Short talk | **Frederik Verweij, Paris, France**
Discrete inter-organelle contacts affect exosome secretion by modulating MVE transport and fusion with the PM

10.00-10.15 Sponsor talk | **Particle Metrix**

10.15-10.45 Coffee break – sponsor exhibition 30 min+ poster session II

Session IV | *Imaging EV uptake and functions*

Chairs: Frederik Verweij and Eva-Maria Krämer-Albers

- 10.45-11.30 *Keynote* | **Stefan Momma, Frankfurt am Main, Germany**
TBA
- 11.30-11.45 Short talk | **Martin van Royen, Rotterdam, Netherlands**
Zebrabow as in vivo model system to monitor vesicles mediated transfer in cancer
- 11.45-12.00 Short talk | **Terri Bruce, Clemson, USA**
3D STED Super-Resolution for Visualization of Extracellular Vesicle Uptake and Trafficking in Target Cells
- 12.00-12.15 Short talk | **Richard Wubbolts, Utrecht, Netherlands**
Detecting fusion of extracellular vesicles by live cell microscopy
- 12.15-12.30 Sponsor talk | **IZON**
- 12.30-13.45 Lunch break/ sponsor exhibition/ poster viewing

13.45-15.30 **Roundtables III + IV (part 1)**

Roundtable III: Imaging EV biogenesis, release and spread

Chairs/Discussion Leaders: Clotilde Théry, Guillaume van Niel, Kirsi Rilla, Ewoud Compeer

Roundtable IV: Imaging EV uptake and functions

Chairs/Discussion Leaders: Roosmarijn Vandenbroucke, Frederik Verweij, Stefan Momma, Zhiwei Wu, Eva-Maria Krämer-Albers

- 15:30-16:00 Coffee break – sponsor exhibition 30 min + poster session I

16.00-17.30 **Roundtables III + IV (part 2)**

- 17.30-17.45 Short break
- 17.45-18.30 **Wrap up presentations Roundtables III & IV**
- 18.30- 18.45 Conclusion, farewell

Local Organizing committee

Organizers: Guillaume van Niel, Frederik Verweij (IPNP, INSERM, France)
Comité: Gisela D'Angelo (Institut Curie, France), Eva-Maria Kramer-Albers (Mainz, Germany), Vincent Hyenne (Université de Strasbourg, France), Xavier Loyer (PARCC, Paris, France), Kenneth Witwer (Johns Hopkins University, Baltimore, US)