

Program

Day of Intravital Microscopy

25-26 November 2019 in Marburg

25.11.19:

- 11.30 – 13.00 Registration
13.00 – 15.00 **Round Table I:**
Regulatory issues of animal welfare, Introductory lecture
Dr. vet. Cornelia Exner, Animal Welfare Officer, Philipps University Marburg
- 15.00 – 15.30 Coffee break
15.30 – 17.30 **Round Table II:**
Surgery, sample holders and stabilization
17.30 – 18.30 Keynote lesson: Three photon microscopy
Prof. Dr. Raluca Niesner, German Rheumatology Research Center Berlin
- 18.30 - 20.00 Poster session and sponsoring presentation
20.00 – 22.00 Network reception

26.11.19:

- 9.00 – 9.45 **Lecture:**
Dorsal Skinfold Chamber model in pancreatic cancer research
Dr. Elena Nasiri, KFO325 Philipps University Marburg
- 9.45 – 10.30 **Lecture:**
Dynamics processes in trachea
Dr. Mario Pieper, University Lübeck
- 10.30 – 10.45 Coffee break
10.45 – 11.30 **Lecture:**
Mast cells in skin
Dr. Jan Dudeck, Otto-von-Guericke University Magdeburg
- 11.30 – 12.15 **Lecture:**
Dynamics of plasma cells
Prof. Dr. Anja Hauser, German Rheumatology Research Center Berlin
- 12.15 – 13.00 Lunch
13.00 – 14.30 **Round Table III:**
Data analysis
14.30 – 14.45 Coffee break
14.45 – 16.00 **Round Table IV:**
Interactive session with core facility tour, production of venous catheters and collection of „staining“ protocols

Detailed Information of Round Table Sessions

General Information

- Short presentation (about 5 min, powerpoint) or demonstration (bring along sample holders,...)
- Discussion / questions of the issue
- Active participation: contribution (presentation, demonstration) of the participant and /or part of the discussion
- Listener: no active part of the Round Table
- The discrimination of active participation and listener helps us in the planning of Round Table Sessions

Round Table I: Regulatory issues of animal welfare

- Introductory lecture of Animal Welfare Officer (German)
- Which chamber models were approved (examples)
- Complaints of Regional Councils / formulations which support the permission
- Burden / score of animal experiments
- Sample size calculation

Round Table II: Surgery, sample holders and stabilization

- Bring along your sample holders
- Experience with 3D printed chambers
- Mechanism of stabilization sample holders to the microscopy platform
- Which aspect to care of by surgery for stabilization
- Triggering and synchronization of measuring

Round Table III: Data analysis

- Typical examples
- 3D analysis
- Longitudinal analysis
- Subsequent correction of drift, respiratory artefacts,...
- Statistics

Round Table IV: Interactive session

The session will be split in three parts:

- Overview of core facilities in the department of medicine of Philipps University Marburg and core facility tour for interested people
- Practical workshop: construction of a venous catheter
- How to make structures intravital visible (fluorescent dyes, special techniques, ...)