



**Leopoldina**  
Nationale Akademie  
der Wissenschaften

**Leopoldina Meeting:**

# **DIGITAL PATHOLOGY ON THE BORDER TO MOLECULAR IMAGING**

**Venice – San Servolo**

**22.-24. March 2019**



**Organization:**

**Prof. Martin-Leo Hansmann**

**Marleen Mildenberger**

**Silvia Casalini (+39 041 2719 511)**

**FRIDAY MARCH 22, 2018**

**10.30 a.m. Registration and Coffee**

**11.30 a.m. Welcome address Leopoldina**

K. Müller-Hermelink - Kiel

**11.45 a.m. Welcome address**

M.-L. Hansmann - Frankfurt

12.00 a.m. - 01.45 p.m. Chairman K. Müller-Hermelink - Kiel

**12.00 a.m. Multi-parameter tissue analyses are going to reflect  
molecular structures**

W. Samek - Berlin

**12.35 a.m. Design and problems of tumor targeting  
radiopharmaceuticals**

U. Haberkorn - Heidelberg

**01.10 p.m. PSMA imaging - New molecular approaches for prostate  
cancer**

M. Eiber - München

**01.45 p.m. Lunch**

03.05 – 04.15 p.m. Chairman M. Eiber - Munich

**03.05 p.m. A video is worth a thousand pictures - tracking rapid biological dynamics with optoacoustics**

D. Razansky - Zurich

**03.40 p.m. Using light sheet-based fluorescence microscopy (LSFM) with thick histological sections**

E. Stelzer – Frankfurt

**04.15 p.m. Coffee Break**

05.00 – 06.10 p.m. Chairman E. Stelzer - Frankfurt

**05.00 p.m. Patholomics: conception and practice**

M. Lai, Zhejiang

**05.35 p.m. New concepts of artificial intelligence and machine learning in diagnostics: Radiomics and more**

M. Albrechtdietel – Frankfurt

**Get together**

# SATURDAY MARCH 23, 2019

09.05 – 10.15 a.m. Chairman F. Klauschen – Berlin

**09.05 a.m. Explainable AI for digital Pathology**

K.-R. Müller – Berlin

**09.40 a.m. Graph-theoretic methods for the analysis of whole slide images of Hodgkin lymphoma**

J. Ackermann – Frankfurt

**10.15 a.m. Coffee Break**

11.00 – 12.45 a.m. Chairman Hansmann - Frankfurt

**11.00 a.m. Digital pathology enables new insights into the spatial organisation of proliferation and hormonal regulation in the normal female breast**

F. Feuerhake / H.-H. Kreipe – Hannover

**11.35 a.m. Hight Performance Computing in Frankfurt**

**Subtitle: Modeling T Cell Motility**

N. Flinner (V. Lindenstruth) – Frankfurt

**12.10 a.m. Requirements for Molecular Imaging in Radiation Treatment Planning**

J. Debus - Heidelberg

**12.45 a.m. Lunch**

02.30 - 03.40 p.m. Chairman M.-L. Hansmann - Frankfurt

**02.30 p.m. Homing of lymphoid cells via afferent lymphatics**

R. Förster – Hannover

**03.05 p.m. Computational modeling of cellular communication in simulated tissue environments**

M. Meier-Schellersheim - Bethesda

**03.40 p.m. Coffee break**

04.15 – 05.25 p.m. Chairman r. Förster - Hannover

**04.15 p.m. Computational fluorescence microscopy: Integrative image analysis of morphological and molecular tumor profiles**

F. Klauschen – Berlin

**04.45 p.m. Imaging of lymphoid cells in human tumors**

E. Donnadieu, M.-L. Hansmann - Paris, Frankfurt

**05.25 p.m. Round table (Moderation M.-L. Hansmann)**

**06.00 p.m. Closing Remarks**

M.-L. Hansmann - Frankfurt

**08.00 p.m. Dinner**

**SUNDAY MARCH 24, 2019**

09.30-11.30 a.m. Round table bioinformatics and computer science