

# Ethics in Image Analysis Workshop



Scientific fraud has become a serious concern in science. Image presentation is a serious and, unfortunately, common source of fraud in life science publications. As image editing is commonplace during data analysis and presentation, even unwanted changes quickly lead to irregular and often illegal figures. Prior knowledge in microscopy and data analysis is not required. Any student / researcher dealing with images to present scientific data is more than welcome to join this workshop. Includes hands-on sessions and talks from journal experts.

**September 27<sup>th</sup> – 28<sup>th</sup> 2018**

Imaging Facility

Max Planck Institute of Immunobiology and Epigenetics (MPI-IE)

Stübeweg 51, 79108 Freiburg im Breisgau

**Organization:** Microscopy and Image Analysis Platform (MIAP), Freiburg University and Max Planck Institute of Immunobiology and Epigenetics (MPI-IE)

**Teachers:** Vibor Laketa (Infectious Diseases Imaging Platform, University of Heidelberg)  
Holger Lorenz (Zentrum für Molekulare Biologie, University of Heidelberg))  
Jana Christopher (Image Integrity, FEBS Journal)

<b>Day 1: September 27<sup>th</sup>, 9:00 – 18:00</b>	
09:00 – 09:15	<b>Welcome &amp; Workshop Introduction</b> ( <i>S. Avilov, T. Wernet, M. Zeeb</i> )
09:15 – 10:15	<b>Understanding Digital Images</b> ( <i>H. Lorenz</i> )
10:15 – 10:30	<b>Coffee Break</b>
10:30 – 12:00	<b>Bioimage Analysis Fundamentals</b> ( <i>H. Lorenz</i> )
12:00 – 14:00	<b>LUNCH BREAK</b>
14:00 – 15:00	<b>Handling Bioimage Data - Ethical Guidelines</b> ( <i>V. Laketa</i> )
15:00 – 15:15	<b>Coffee Break</b>
15:15 – 16:15	<b>Preparing Bioimage Data for Publication and Presentation</b> ( <i>V. Laketa</i> )
16:15 – 17:15	<b>The Journal Point of View</b> ( <i>J. Christopher</i> )
17:15 – 18:00	<b>Forum – Open Questions and Discussions</b>

<b>Day 2: September 28<sup>th</sup>, 09:00 – 16:00</b>	
09:00 – 12:00	<b>Hands-on: Basics of Digital Image Processing</b> ( <i>H. Lorenz</i> ) <b>incl. Coffee</b>
12:00 – 13:00	<b>LUNCH BREAK</b>
13:00 – 15:00	<b>Hands-on: From the Raw Image to Data Presentation</b> ( <i>V. Laketa</i> )
15:00 – 15:15	<b>Coffee Break</b>
15:15 – 16:00	<b>Forensic Tools to Inspect Digital Image Integrity</b> ( <i>H. Lorenz</i> )

You can bring your own research data with you for the hands-on sessions.

Please bring your own laptop including Fiji/ImageJ installation to the practical part / day 2.

Each day of the workshop can be booked individually.

For more information, please contact MIAP: <https://miap.eu> [info@miap.eu](mailto:info@miap.eu)

