

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 misleading 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 DFG and journal representatives.

October 21st – 22nd 2019

Albert-Ludwigs University Freiburg
Lehrpool und E-Prüfungszentrum
Werthmannstr. 4, 79098 Freiburg im Breisgau

Organization: Microscopy and Image Analysis Platform (MIAP), University of Freiburg

Teachers: Vibor Laketa (German Center for Infection Research (DZIF), University Heidelberg)
Holger Lorenz (Center for Molecular Biology (ZMBH), University of Heidelberg)
Michael Royeck (Scientific Instrumentation and Information Technology, DFG)
Roland Nitschke (Life Imaging Center (LIC), University of Freiburg)
Jana Christopher (Image Integrity, FEBS Journal)

Day 1: October 21st, 9:00 – 18:00	
09:00 – 09:15	Welcome & Workshop Introduction (<i>R. Nitschke, S. Bartsch, T. Wernet</i>)
09:15 – 10:15	Understanding Digital Images (<i>H. Lorenz</i>)
10:15 – 10:30	COFFEE BREAK
10:30 – 11:30	Bioimage Analysis Fundamentals (<i>H. Lorenz</i>)
11:30 – 12:30	Correct and Quantitative Image Recording - Prerequisites (<i>R. Nitschke</i>)
12:30 – 13:30	LUNCH BREAK
13:30 – 14:15	DFG: Safeguarding Good Scientific Practice (Final Title t.b.a.) (<i>M. Royeck</i>)
14:15 – 15:15	Handling Bioimage Data - Ethical Guidelines (<i>V. Laketa</i>)
15:15 – 15:45	COFFEE BREAK
15:45 – 16:45	Preparing Bioimage Data for Publication and Presentation (<i>V. Laketa</i>)
16:45 – 17:30	Image Integrity - The Journal Point of View (<i>J. Christopher</i>)
17:30 – 18:00	Open Questions and Discussions

Day 2: October 22nd, 09:00 – 16:00	
09:00 – 10:15	Hands-on: Basics of Digital Image Processing Part 1 (<i>H. Lorenz</i>)
10:15 – 10:30	COFFEE BREAK
10:30 – 12:00	Hands-on: Basics of Digital Image Processing Part 2 (<i>H. Lorenz</i>)
12:00 – 13:00	LUNCH BREAK
13:00 – 14:30	Hands-on: From the Raw Image to Data Presentation (<i>V. Laketa</i>)
14:30 – 15:00	COFFEE BREAK
15:00 – 16:00	Forensic Tools to Inspect Digital Image Integrity (<i>H. Lorenz</i>)

You can bring your own research data examples for the hands-on sessions on day 2.
You can bring your own laptop including Fiji / ImageJ installation to the practical part on day 2.
For more information, please contact MIAP: <https://miap.eu> info@miap.eu