

Dr. Isabel Kemmer

FAIR Data Steward

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Experience

FAIR Image Data Steward / Euro-BioImaging ERIC, Bio-Hub
AUGUST 2022 - PRESENT, EMBL Heidelberg

Mobilization of bioimage datasets to open repositories
Consultations for researcher and facility staff
Development of image data submission and FAIR data guidelines
Design and delivery of training events and materials on FAIR data
Creation and execution of data management plans
Representation of bioimage domain on international research landscape

Doctoral Researcher / HITS gGMBH
FEBRUARY 2018 - MAY 2022, Heidelberg

Performing Molecular Dynamics Simulations of proteins under mechanical force using high-performance computing

Research Assistant: Database curator / HITS gGMBH
DECEMBER 2016 - JANUARY 2018, Heidelberg

Input and harmonization of data and the subsequent quality control of the data in the Biochemical Reaction Kinetics Database SABIO-RK

Research Assistant: Bioimage analysis / Bioquant
FEBRUARY 2015 - JULY 2015, Heidelberg

Analysis of fluorescence microscopy data

Education

Doctoral Degree - Biosciences / University of Heidelberg
FEBRUARY 2018 - MAY 2022

Thesis: Exploring Mechanical Signaling in Cellular Force Transduction Hubs using Molecular Simulations

Master of Science - Molecular Biosciences / University of Heidelberg
OCTOBER 2013 - OCTOBER 2016

Thesis: Characterization of the Hog1-Rck2 protein-protein interaction in the S. cerevisiae HOG-pathway

Bachelor of Science - Biowissenschaften / University of Heidelberg

OCTOBER 2010 - OCTOBER 2013

Thesis: The analysis of mRNA regulation by 3'-UTRs in Neurospora crassa in light cryptochrome dependent manner

Publications

Bajcsy P, Bhattiprolu S, Börner K, ... [Kemmer I](#) et al. **Enabling global image data sharing in the life sciences.** *Nat Methods.* 2025;22(4):672-676. doi:10.1038/s41592-024-02585-z

[Kemmer I](#), Keppler A, Serrano-Solano B, et al. **Building a FAIR image data ecosystem for microscopy communities.** *Histochem Cell Biol.* 2023;160(3):199-209. doi:10.1007/s00418-023-02203-7

David R, Richard AS, Connellan C, ..., [Kemmer I](#) et al. **Umbrella Data Management Plans to Integrate FAIR Data: Lessons From the ISIDORE and BY-COVID Consortia for Pandemic Preparedness.** *Data Science Journal.* 2023;22(1):35. doi:10.5334/dsj-2023-035

[Martin IM](#), Nava MM, Wickström SA, Gräter F. **ATP allosterically stabilizes integrin-linked kinase for efficient force generation.** *Proc Natl Acad Sci U S A.* 2022;119(11):e2106098119. doi:10.1073/pnas.2106098119

[Martin IM](#), Aponte-Santamaría C, Schmidt L, et al. **Phosphorylation tunes elongation propensity and cohesiveness of INCENP's intrinsically disordered region.** *J Mol Biol.* 2022;434(1):167387. doi:10.1016/j.jmb.2021.167387