

Introducing the German BioImaging Society for Microscopy and Image Analysis (GerBI-GMB) Team Intravital Microscopy

K.R. Roth¹, I.A. Alexopoulos², G.B. Bakker³, H.F. Fried⁴, A.G. Gheisari⁵, H.I. Ishikawa-Ankerhold⁶, M.M. Mitkovski⁷, C.P. Peukert⁸, M.P. Pieper⁹, B.S. Stolp¹⁰, S.T. Tulok⁵, M.G. Gerlach⁵

¹ Center for Tumor and Immune Biology, Philipps University Marburg, Marburg, Germany; ² Institute for Lung Health, Justus Liebig University Gießen, Gießen, Germany; ³ Cell Biology, Radboud University Medical Center, Nijmegen, Netherlands; ⁴ German Center for Neurodegenerative Disease, Bonn, Germany; ⁵ Medical Theoretical Center, Technical University Dresden, Dresden, Germany; ⁶ Walter-Brendel Center for Experimental Medicine, Ludwig-Maximilians University Munich, Munich, Germany; ⁷ Max-Planck-Institute for Multi-Disciplinary for Natural Science, Göttingen, Germany; ⁸ Department of Molecular Biosciences, Stockholm University, Stockholm, Sweden; ⁹ Institute of Anatomy, University of Lübeck, Lübeck, Germany; ¹⁰ Center for Integrative Infectious Diseases, University Hospital Heidelberg, Heidelberg, Germany.

Abstract

GerBI-GMB (GermanBioImaging – Gesellschaft für Mikroskopie und Bildanalyse e.V.) is the German scientific society for microscopy and image analysis. The society represents the interests of researchers, engineers and life science professionals involved in microscopy and image analysis in Germany. It fosters interaction and exchange of information within the community, including between academia and industry; it also organizes public outreach on topics of general interest related to microscopy and image analysis in life sciences. GerBI-GMB maintains special focus on providing resources for microscopy and image analysis core facilities in Germany. The individual GerBI-GMB Teams, specialized groups focused on sharing resources, provide spaces in which key aspects of core facility operation are discussed. The Team Intravital Microscopy was founded in 2016 (Team ivmic).

Intravital microscopy is a small but steadily growing field. Because of the diverse and fast-moving array of special techniques and specific problems in intravital microscopy, Team ivmic aims to be an active network fostering dynamic exchange of information and techniques. Main goal of Team ivmic are to link professionals and specialists as well as to create a platform which provides an overview of methods and technologies, enabling efficient transfer of knowledge. Since 2018, Team ivmic members have organized an annual conference in presence (“Day of Mouse Intravital Microscopy”) and online events at least once a year (“Virtual Coffee with Colleagues”). It features lectures and round table discussions on microscopy, research, special technical approaches, and compliance with animal wellbeing regulations in the field of intravital microscopy.

This poster will introduce the intravital microscopy network of GerBI-GMB. A summary of the events is given. We further provide an outlook for planned activities, and announce the upcoming conference in presence in Magdeburg in October 2023.