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GLOBAL BIOIMAGING
Building a community

Welcome & Year of Global Vision. The GBI Newsletter aim is to deliver by no other period relevant information to the community, highlight upcoming events, training opportunities, and celebrate growth of the bioimaging science through the lens of our partners, and the regular GBI news updates, opportunities, and news around the Globe. Initiating the GBI Journalists Group headed by Ashley Blackburn and the GBI Editorial Board headed by Nicole Bechtel.

India BioImaging

Dear All,
This monthly newsletter is brought to you by the Co-Chairs of the GBI with the opportunity to share the latest news from the India Bioimaging Community and opportunities that all Global Bioimagers perform.

About India Bioimaging (IBI)
https://www.indiabioimaging.net/

Founded in 2019, India Bioimaging (IBI) was conceived to democratize access to cutting-edge bioimaging technology, foster collaboration, and cultivate a vibrant community in India. The initiative has successfully convened training workshops & imaging facility accelerator program recent cohort spanning 10 institutions across India, and has established a robust network of over 1,000 members. Its phase of development (using bioimaging stakeholders across the country with a focused approach on the Northeastern region) aims to bridge the gap between advanced imaging technology capabilities of metro bioimaging facilities and the surrounding ecosystem of neurosciences bioimaging innovators, and facilitate by sharing of bioimaging resources and expertise nationwide.

The Growing IBI Network
The IBI network now spans across various interdisciplinary & training programs across India, supporting both private and government research institutions. These include facilities from premier institutions in metropolitan areas as well as those in research institutions, and regions from the Northeastern region.
The growth follows the successful inaugural training held in December 2024 at IISER Pune, organized in collaboration with the Global BioImaging (GBI). The event, which drew over 100 participants, marked a major milestone in the initiative's journey, showcasing significant momentum, development and community building.

IBI Mid-Working Group
The India Bioimaging Group (IBIG) is a dedicated platform for key stakeholders to convene, organize, share, and coordinate technical, ethical, and strategic initiatives in bioimaging. This group focuses on fostering a collaborative ecosystem that supports the growth and sustainability of bioimaging initiatives across all IBI projects and programs, ensuring continuous collaboration and alignment.

Training & Mentoring IBI
The group will work on a fellowship program aimed at enhancing technical expertise in bioimaging, with a focus on training the next generation of researchers and facilitators in advanced bioimaging methodologies. The training initiative has the ultimate goal of fostering a vibrant community of practice.

Outreach & Communication IBI
The group will also focus on fostering community engagement and building a global alliance by connecting with diverse scientific communities. Our inaugural outreach initiative is the Bioimaging Challenge.

Bioimaging Challenge
The Bioimaging Challenge is a series of bioimaging challenges, aimed at fostering collaboration and innovation. Each challenge is designed to bring our bioimaging community closer together. Every challenge, we showcase exciting research, foster meaningful collaborations, and celebrate the diverse talents and contributions of our community, while also supporting the development of foundational concepts. The goal is to upset well-established norms and challenge the status quo, and accurate and detailed those in accordance to Bioimaging Challenge.

India Bioimaging YouTube Channel
India Bioimaging is excited to launch our YouTube channel, **@indiabioimaging**, to serve as a video, training resources, and highlights from our community. We invite you to subscribe, explore, and share the content with your community to keep up-to-date with India Bioimaging.

IBI Webinar Series
IBI hosts a bioimaging scientific webinar series to engage and connect imaging professionals nationwide. The webinars provide a platform for sharing cutting-edge bioimaging research and building on the frontiers of imaging science.

Free Webinar by Nikon
Open Resolution Imaging of Cellular Transport Materials

Speaker: Dr. Ashish Sharma, Assistant Professor, Department of Biotechnology, Indian Institute of Technology Bombay, IIT Kanpur/Nikon

Highlights: Single-Molecule Localization – Tracking and Ultra-Structural Characterization of Cellular Transport Materials, Cargo Modifications – Lysosomal Reorganization – Microtubule-Associated Proteins

Whether you work in India or abroad, if you would like to be part of any of these Working Groups, please reach out to Ashish Kumar Sharma (ASHISH.SHARMA@ncbs.res.in).

Also, check all ongoing Facilities at IBI, and don't forget to join the Bioimaging Q

Global Engagement and Representation

Sarah E Lutchman Bioimaging was awarded a Travel Grant to attend the Global Bioimaging Exchange of Experience 2025 (GBI Workshop) in Cambridge, UK, hosted by the Wellcome Sanger Institute. The GBI Workshop focused on Expansion Microscopy (ExM), Spatial Transcriptomics, Cryo-ET, Multiplexed Imaging, and Data Management. Sarah's presentation, titled **Multiplexed Imaging: Tissue Architecture Mapping in Cancer**, highlighted her work on multiplexed imaging of tumour microenvironments, including cancer-associated fibroblasts, immune cell infiltration, and spatial organization in human tissues. This work underscores the importance of standardized workflows and cross-disciplinary collaboration for advancing translational cancer research.

Dr. Sanjay Kumar (IT Hyderabad) and **Dr. Firdoswa Ansari** (Indian Institute of Technology Bombay) attended the **GBI Workshop** in Cambridge (October 13–16, 2025), which focused on **global data sharing in bioimaging**. The workshop brought together leaders from the Global Bioimaging Consortium (organized by **Jennifer Mitchell/Wellcome Sanger Institute**) and the **Bioimaging Facilities Forum (BFF)** (led by **Ashley Blackburn**). The meeting's discussions centered on standardizing metadata, FAIR principles, and cloud-based infrastructure for managing bioimaging data. The participants also shared research on **AI in bioimaging** for brain tumor research.

Global Bioimaging Train the Trainer Workshop (October 20th) was a 2-hour Virtual GBI Jam Session, **Hosted by Ashley Blackburn** (Bioimaging Facilities Forum) and **Dr. Ashish Kumar Sharma** (Co-Chair, Global Bioimaging). Participants from **Indian Institute of Technology Bombay, Jawaharlal Nehru University, Delhi, Bioimaging Facility, Kochi, Bioimaging Hub Assam, Bioimaging Facility Kolkata** and **Bioimaging Facility Chennai** joined to share and discuss bioimaging challenges and solutions, including training and mentoring, and the future of bioimaging community.

JOB SHADOWING with Global BioImaging
Kochi Bioimaging Hub hosted the Kochi Global Bioimaging Job Shadowing Science Technology Platform (KLEAP) in Cochin, UK, organized by Kochi Bioimaging Hub Coordinator Jan Ellenberg. The event was a 2-day job shadowing program for Kochi Bioimaging Hub staff, including two senior scientists, two senior technicians, and two bioinformatics scientists, and two Kochi Bioimaging Hub Coordinators. The program included training on Cryo-EM, Cryo-ET, Cryo-CLEM, and cryo-ultramicrotomy, and a tour of the Cryo-EM facility. Kochi Bioimaging Hub Coordinator Jan Ellenberg and Kochi Bioimaging Hub Coordinator Jan Ellenberg.

The visit was a broad, in-depth collaboration, with the company's partner Kochi Bioimaging Hub Coordinator Jan Ellenberg.

India Bioimaging 1st Annual Meeting 2025, Mysuru Chapter
Mysuru, India | 21 December 2025

The India Bioimaging (IBI) 1st Annual Meeting 2025 – Mysuru Chapter was successfully hosted by JSS University of Mysuru Research Institute in Chemistry, in collaboration with the Indian Institute of Science Education and Research (IISER) Pune, on December 21, 2025. The meeting brought together over 100 participants from academia, industry, and bioimaging facilities from across the Southern and Western regions of India. The event focused on cutting-edge bioimaging methods, tools, and facility professionals, institutional leaders, and early-career researchers to discuss the evolving landscape of bioimaging technologies, data management, and collaborative ecosystems in advancing India's bioimaging research and training. The day-long program of talks, panel discussions, and poster sessions, chaired by Dr. Ashish Kumar Sharma, Co-Chair of the Global BioImaging Consortium, and Dr. Ashish Kumar Sharma, Co-Chair of the Global BioImaging Consortium.