

Euro-BioImaging ERIC: Scientific Advisory Board (SAB)

Preamble

According to the Terms of Reference of Euro-BioImaging SAB, Rule 1.2, “The Euro-BioImaging SAB is composed of highly qualified, internationally recognized senior experts for biological and medical imaging technologies, image data management, research infrastructure management and ethical issues related to imaging technologies, each selected on the basis of their competence and covering all aspects of the activities of the Euro-BioImaging ERIC.”

Table of Contents:

Senior Experts in Biological Imaging	1
Senior Experts in Medical Imaging	3
Senior Experts in Research Infrastructure Management	4
Senior Experts in Image Data Management	5
Senior Expert in Ethics	6

Chairman:

Ian Smith,
Emeritus Professor,
Faculty of Medicine
Nursing and Health Sciences,
Monash University,
Melbourne, Australia



Senior Experts in Biological Imaging

Teng-Leong Chew

Director, Advanced Imaging Center
HHMI Janelia Research Campus



Dr. Teng-Leong Chew became the inaugural director of the Advanced Imaging Center at Howard Hughes Medical Institute Janelia Research Campus. He has been leading the effort in building the unique collaborative imaging center that serves as the gateway through which the wider scientific world can access Janelia's cutting-edge microscopy capabilities. He is the founding executive committee member of BioImaging North America, a continent-wide society for imaging scientists. In 2020, he spearheaded the first optical microscopy education initiative, Imaging Africa, that is open to the entire African scientific community. Before he joined Janelia, Leong served as the director of the Center for Advanced Microscopy at Feinberg School of Medicine, Northwestern University for 12 years, and led the facility to be recognized as one of the few selected Nikon Imaging Centers in the world. In 2009, he was further appointed to the position of Director for University Imaging Resources at Northwestern, overseeing the institutional strategy in building integrated imaging infrastructure across all seven imaging centers

Alison North

Research Associate Professor
Senior Director, Bio-Imaging Resource Center
The Rockefeller University



Alison North joined The Rockefeller University in 2000 to establish and direct its BioImaging Resource Center, one of the world's most comprehensive facilities for state-of-the-art microscopy and scientific imaging. Professor North, a cell biologist whose research has included using immunoelectron microscopy to study muscle defects caused by Duchenne muscular dystrophy and ultrastructural studies of the cellular organization of epidermal cell-cell junctions, advises and trains hundreds of researchers from Rockefeller and other institutions in a wide variety of optical microscopy techniques.

Kedar Narayan

Senior Scientist & Group Leader
Center for Cancer Research CCR Volume Electron Microscopy,
Frederick National Laboratory,
National Cancer Institute, NIH



Dr. Kedar Narayan is group leader of the volume EM group at the Center for Molecular Microscopy (CMM) at the Center for Cancer Research, NIH Frederick. At CMM, he is responsible for FIB-SEM and array tomography, technology development and for driving collaborative projects that use volume EM and correlative imaging approaches to explore cellular mechanisms. He earned a Ph.D. in immunology from Johns Hopkins University School of Medicine, and has a research background in chemistry, pathology, and biophysics. His recent work has focused on FAIR data and the use of artificial intelligence and machine learning for image analysis in electron microscopy.

Elisa May,

Professor, Chief Enabling Technology Officer
German Cancer Research Center (DKFZ)

Prof. Dr. Elisa May is the Chief Enabling Technology Officer at the German Cancer Research Center (DKFZ) and a Full Professor of Cellular Bioimaging at the University of Konstanz. She joined DKFZ in 2021 to oversee and further develop the institute's extensive scientific infrastructure, which includes facilities for biological, preclinical, and medical imaging. In Konstanz, she established and directed the University's Bioimaging Center. Her research activities as an Adjunct Professor included the development and application of advanced biophotonic approaches for investigating the DNA damage response. Prof. May spearheaded and coordinated efforts to create a national community of bioimaging core facilities and research groups, and in 2017, she became the founding president of German Bioimaging, the German national scientific society for Microscopy and Image Analysis, serving as Chair of the Board until 2022. In her leadership at DKFZ, she is dedicated to advancing bioimaging infrastructure to improve the understanding and treatment of cancer.



Senior Experts in Medical Imaging

Simon R. Cherry

Professor
 Department of Biomedical Engineering and
 Department of Radiology
 University of California, Davis



Prof. Simon R. Cherry is a Professor of Biomedical Engineering at the University of California Davis. Dr. Cherry develops novel technologies and methods for quantitative biomedical imaging. The Cherry Lab focuses on molecular imaging using positron emission tomography (PET) scanning; in particular developing faster and more sensitive detection technologies. The laboratory has developed technologies with widespread applications for improving diagnosis, stratifying patients for treatment and assessing response to that treatment. Cherry co-leads the EXPLORER project, a collaboration with several colleagues to develop the world's first total-body PET scanner. He has authored more than 398 peer-reviewed publications (h-index of 74 on scopus). [Simon R. Cherry | Biomedical Engineering \(ucdavis.edu\)](#)

Malini Olivo

Professor, Executive Director, Medtech Programme office,
 Deputy Executive Director, Institute of Bio-engineering and Bioimaging
 Adjunct Prof Ob-GYN Dept,
 NUS, A*STAR



*Prof. Malini Olivo is the Deputy Executive Director of Institute of Bioengineering and Bioimaging (IBB), Agency for Science Technology and Research (A*STAR) Singapore and the Director of Biophotonics and Head of the Translational Biophotonics Laboratory at IBB, A*STAR where she leads efforts to establish a clinical biophotonics translational platform programme. Concurrently, she is also the Co-Executive Director of the A*STAR Health & MedTech Horizontal Technology Programme Office, where she spearheads and coordinates MedTech R&D between A*STAR and the national healthcare ecosystem. Prof. Malini Olivo is also an Adjunct Professor, Lee Kong Chian School of Medicine, NTU, Department of Obstetrics & Gynaecology, National University Health System, NUS, Singapore and Royal College of Surgeons Ireland, Dublin Ireland. She has published over 400 papers (h-index of 58 on scopus) and filed 30 patents on technology platforms and devices. She is also founder of 2 MedTech start-ups in Singapore.*

*For her pioneering work on developing biophotonics and decades of experience in translating biophotonics from bench to the clinic, Prof. Malini Olivo was elected to the American Institute for Medical and Biological Engineering (AIMBE) College of Fellows in Washing D.C., U.S.A., in 2019. She is also a fellow member of the Optical Society of America for pioneering and contributing to the field of photomedicine in the seminal area of cancer diagnostics and therapeutics. She is a Fellow of institute of Physics in UK and Ireland. She champions women in STEM research as a pioneer in the field of biomedical physics. [Malini Olivo - A*STAR Research \(a-star.edu.sg\)](#)*

Senior Experts in Research Infrastructure Management

Ian Smith

Emeritus Professor,
Faculty of Medicine
Nursing and Health Sciences,
Monash University,
Melbourne, Australia



Prof. Ian Smith has responsibility for the oversight and management of Monash University's research alliances and research infrastructure as well as developing and implementing strategies to meet future university infrastructure needs in these areas. Ian is an accomplished medical researcher and is recognized as a leader in his field. His research applies proteomics technologies to study the proteases involved in the generation and metabolism of peptide regulators involved in both brain and cardiovascular function.

Graham Galloway

Professor
Herston Imaging Research Facility
University of Queensland Centre for Clinical Research, Australia



Prof. Graham Galloway, PhD, is the Director of the Herston Imaging Research Facility (HIRF) and Director of Research at the Translational Research Institute (TRI). He was formerly the Chief Executive Officer of the National Imaging Facility from July 2017 until July 2021. Professor Galloway's research is defined by finding innovative solutions to novel problems, of breaking new ground, of pushing the envelope of research using MR. His role in all projects is characterised by his multidisciplinary background, which ensures that he is able to draw together these apparently disparate threads. Graham Galloway has been pivotal in establishing collaborative research infrastructure across Australia.

Senior Experts in Image Data Management

Wojtek Goscinski

Chief Executive Officer
National Imaging Facility
Australia

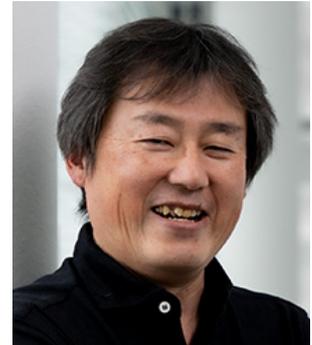


Wojtek James Goscinski is the CEO of National Imaging Facility which is Australia's advanced imaging network. He is an Adjunct Professor of Practice at Monash University. Before his time at NIF he was project director of MASSIVE, a national high performance computing facility for imaging and data science, and the project director of the Australian Characterisation Commons at Scale, a program to deploy national-scale digital infrastructure for computational imaging. Professor Goscinski is an expert in developing and delivering digital scientific infrastructure. His research background is high performance computing, computational imaging, and large-scale scientific computing.

Shuichi Onami

Team Leader
RIKEN Center for Biosystems Dynamics Research, Japan

Shuichi Onami is a senior expert for image data analysis and data repositories. His expertise lies in the system analysis of development by using large collections of quantitative dynamic information. He is also an expert in mathematical modeling of development. To understand the mechanism of organism development, Shuichi Onami and his team are developing mathematical models for developmental systems like the C. elegans embryo, mouse embryo and three-dimensional cell culture systems, by combining molecular cell biology and genome science with biophysics and computer science methods.



Ron Kikinis

B. Leonard Holman Professor of Radiology, Harvard Medical School, USA
Vice-Chair for Biomedical Informatics Research, Department of Radiology, Brigham Health
Founding Director, Surgical Planning Laboratory

Dr. Kikinis developed a scientific interest in image processing algorithms and their use for extracting relevant information from medical imaging data. His activities include technological research (segmentation, registration, visualization, high performance computing), software system development (most recently the 3D Slicer software package), and biomedical research in a variety of biomedical specialties. The majority of his research is interdisciplinary in nature and is conducted by multidisciplinary teams.



Senior Expert in Ethics

Judy Illes

Canada Research Chair in Neuroethics
Professor of Neurology, Department of Medicine
Director, Neuroethics Canada
University of British Columbia



Judy Illes is an expert on ethical, legal, social and policy challenges at the intersection of the brain sciences and biomedical ethics. She has made groundbreaking contributions to neuroethical thinking for neuroscience discovery and clinical translation specifically in the areas of neuroimaging and neuromodulation, neuropsychiatry, neurodevelopment, and neurodegeneration, and more broadly to entrepreneurship and the commercialization of health care. She is Vice-Chair of the Standing Committee on Ethics of the Canadian Institutes of Health Research (CIHR), and of the Advisory Board of the CIHR Institute for Neuroscience, Mental Health and Addiction. Dr. Illes was appointed to the Order of Canada, the country's highest award to citizens, in 2017.

