

# Global BioImaging Project

## D2.1 Report on common strategy for exchange of best practice in imaging infrastructure operation

<b>Project N.</b>	653493
<b>Project Title</b>	Global BioImaging
<b>Project Acronym</b>	GBI
<b>Associated Work Package</b>	WP2
<b>Associated Task</b>	Task 2.1
<b>Lead Beneficiary (short name)</b>	ABO
<b>Nature</b>	Report
<b>Dissemination Level</b>	Public
<b>Estimated Delivery Date (Grant Agreement, Annex I)</b>	31/08/2016
<b>Actual Delivery Date</b>	26/08/2016
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Funded by the Horizon 2020  
Framework Program of the  
European Union

## Abstract

One of the main aims of the Global BioImaging project is to enable exchange of best practices in open access imaging infrastructures' operation between Euro-BioImaging and other European imaging facility staff with their counterparts from Australia and India as well as Argentina, Japan, South Africa and the USA. The first key milestone in achieving this goal is represented by the first physical meeting of all partners organised by WP2, the "*Exchange of Experience I*" workshop, which was attended by 78 imaging infrastructure representatives from 6 continents. This first workshop took place in Europe at the European Molecular Biology Laboratory (EMBL) in Heidelberg on the 8-10<sup>th</sup> of June 2016.

The present report constitutes deliverable D2.1 of the Global BioImaging project.

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## **1. Introduction**

The Global BioImaging project brings together Euro-BioImaging with imaging infrastructure experts from Australia, Argentina, South Africa, India, Japan and the United States of America to open provision of imaging and training services to biological and medical researchers and imaging facility staff world-wide. It has the ambitious goal of creating a global network of state-of-the-art imaging research infrastructures which will operate interconnected, by pursuing collaboration agreements on the reciprocal use, openness and co-financing of common services, in particular in image data and training.

Work Package 2 (WP2)'s aim is to provide the means for exchange of experience among all partners involved. WP2 is in charge of organizing three international workshops in the areas of open access to imaging infrastructure, user training, imaging facility operation, quality management and cutting-edge imaging technologies in close collaboration with WP3, WP4, and WP6. In order to facilitate this, WP2 also provides and manages travel grants to European and international imaging facility staff to attend the workshops. Back-to-back with these workshops, which take place in Europe (M6), India (M18) and Australia (M30), WP3, WP4 and WP6 organize their meetings and courses for training and image data experts as well as leading imaging experts from other regions of the world. In this way, Global BioImaging project brings together all relevant partners involved at the same time for optimizing the impact on the project deliverables, especially those which are of a global nature i.e. developing the recommendation for open user access or quality management at the international level.

The goal of Work Package 2 is to support GBI partners in developing a sustainable plan for the future networking activities including reciprocal use of infrastructure services, international training courses and virtual platforms for data management.

## 2. Description of Task 2.1

A key task of WP2 within Global BioImaging framework is to organize three workshops on exchange of experience and best practice in operation of imaging infrastructure. These workshops take place in Europe, India and Australia in close cooperation with and co-financing by Euro-BioImaging collaboration partners Australian Microscopy and Microanalysis Research Facility (AMMRF), National Imaging Facility (NIF) from Australia, and India BioImaging. The duration of each workshop is planned to be 2-3 days and each shall be open for ca. 60-80 European and international participants. The workshops “*Exchange of Experience*” will be organized back-to-back with the training courses for facility staff in facility management (WP3) and image data tools (WP4), workshops of the international stakeholders (WP6) and the physical meetings of the Management Board (WP1).

As imaging facilities and communities are rapidly evolving and facing many similar challenges around the globe, many countries have a strong interest to be engaged in a new level of networking at a global scale and have the need to learn the experiences from well-established infrastructures. The Global BioImaging project’s *Exchange of Experience* workshops, where imaging communities around the globe can meet and directly discuss about their needs and expectations for imaging infrastructure services, aim at facilitating this process. In addition to experiences exchange and networking, this framework should enable the global imaging community to establish common tools and prepare guidelines for imaging infrastructure services.

## 3. First “Exchange of Experience” workshop, 8-10<sup>th</sup> of June 2016

The first *Exchange of Experience* workshop, *EoE I*, was organized at European Molecular Biology Laboratory (EMBL) from 8<sup>th</sup> to 10<sup>th</sup> of June 2016, back-to-back with the CTLS 2016 congress<sup>1</sup> (12<sup>ve</sup>-15<sup>th</sup> June 2016, EMBL Heidelberg), with the aim of creating a link with the state-of-the-art activities in Core Technology facilities and resource laboratories in all fields of Life Science. The

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<sup>1</sup> <http://www.embl.de/training/events/2016/CTL16-01/>

workshop brought together 78 participants (see Annex 3), ranging from European facility staff to their international colleagues from India, Australia, Japan, South Africa, Argentina and the USA to exchange best practice in benchmarking performance of imaging technology platforms, image data management and facility staff training.

The main objectives of the workshop were:

- To stimulate the facility staff's networking and international cooperation
- To plan and finalize upcoming workshops for core staff facility training and image data management
- To identify common strategy for exchange of best practice in imaging infrastructure operation

### **3.1 Strategy of structuring the first *Exchange of Experience* workshop**

The main idea behind organizing the first international workshop was to enable to share lessons learned from other imaging infrastructures and to stimulate exchange of best practice globally (see Annex 1). Each participating country is at different stage with their national imaging communities and share different level of experience as some partners are only starting to build their imaging infrastructures and others have already long established practices in their imaging community for example in open access, training and quality management. For these reasons this workshop was a valuable tool to bring all participating countries together and to learn models established and used in other countries.

The first day of the workshop was structured into several keynote speeches, where relevant examples of research infrastructures at a national and international level were given. The second and third days<sup>2</sup> of the workshop started with breakout sessions (Sessions I and II) to stimulate engagement from all participants of structuring the program for the first GBI training courses for

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<sup>2</sup> Due to a high popularity of the workshop and active discussion on many important topics, the workshop program was extended from the originally planned two days till Friday noon by the request of the participants. The third day was dedicated to the continuation on the discussion on the GBI training courses and the shadowing program.

staff in imaging facility management and operation as well as image data management. To support the breakout session's discussion on the future development of global user and staff training possibilities (Session I) and image data management (Session II), several imaging infrastructures were invited to present their current status of existing training opportunities as well as how image data is handled and stored in different research communities. At the end, parallel breakout sessions were summarized to all participants. Dedicated international panel sessions also took place during day-two, where participants were given opportunity to present the status of research infrastructure in their home countries and directly discuss their expectations and particular strengths they can bring to the Global BioImaging project. Finally, the GBI shadowing program, its scope and objectives were presented, and met a broad interest from the international community.

### **3.2 International imaging infrastructure operation experiences worldwide**

First day of three-day workshop was structured to broadly introduce some of the most advanced imaging communities and research infrastructures around the globe. Keynote speakers from Australia, United Kingdom (UK), the US, Euro-BioImaging, France and Czechia were invited to introduce their infrastructures and models on how they have been established and are operating. Each partner was representing a different stronghold in imaging community.

Keynote speaker from **Australia** (Miles Apperley) was introducing their national strategy on investing into research and how that serves different large research communities in a widely spread country. After having provided the example of ANSTO (Australian Nuclear Science and Technology Organisation), the organisations operating in the imaging field were presented. The Australian Microscopy and Microanalysis Research Facility (AMMRF), which is a collaborative research infrastructure facility forming a national grid of leading expertise and instrumentation in microscopy and microanalysis, is an open-access facility comprising of 14 universities and this large infrastructure supports more than 3,000 researchers annually. Another national imaging infrastructure, Australian National Imaging Facility (NIF) provides state-of-the-art imaging capability for a whole body and small animal imaging. AMMRF and NIF have been progressive in

the development and operation of a range of e-infrastructure and online tools to support researchers. To especially address the challenges of limited resources in training the user, AMMRF has developed an online tool *MyScope: Training for Advanced Research* ([ammrf.org.au/myscope](http://ammrf.org.au/myscope)) that comprises of education tools for teaching and learning in the area of microscopy and microanalysis. This unique tool provides an excellent example of how research infrastructure can implement new means to respond the research community challenges and solution for limited resources.

Keynote speaker from EMBL-EBI (Janeth Thornton), was sharing her experience of lessons learned on building a distributed infrastructure for European life-science information, **ELIXIR**. The key point of the work behind the successful infrastructure was emphasized to be building a strong and organized scientific base in each partner organization and country. Especially in the international distributed infrastructures, developing trust with national policy makers and building strong relationships with national funding bodies and their legal representatives is a key for sustainable collaboration.

A keynote talk from the **US** (by Teng-Leong Chew) was introducing a unique philosophy and story behind the creation of the Advanced Imaging Center at Howard Hughes Medical Institute Janelia Research Campus, which is an exceptional facility in the US providing free access to external visitors to cutting-edge imaging technologies developed at Janelia at no cost and before the instruments are commercially available.

ESFRI research infrastructure project **Euro-BioImaging** (EuBI) was presented by Jan Ellenberg, who illustrated the overall ESFRI's framework and EuBI's open user access model for biological, molecular and medical state-of-the-art imaging technologies. The work aimed at building this large infrastructure has been carried during the past decade and has managed to connect 17 European countries to one powerful imaging community. When it established as a legal entity, the EuBI infrastructure will consist of a set of complementary strongly interlinked and geographically distributed Nodes to reach European scientists in all its Member States. The pan-European infrastructure will be empowered by a coordinating entity, the EuBI Hub, which shall

provide a single entry point from which the users are directed to their desired imaging technology as served by the respective Euro-BioImaging Nodes.

Keynote talk from **France** (by Jean Salamero) was sharing their national experience on how to build from a network of imaging core facilities to a big national distributed infrastructure. France BioImaging has become an organized infrastructure that coordinates several large biological imaging facilities and laboratories specializing in R&D for imaging in 5 local and one transversal Node.

Keynote speaker from **Czechia** (Pavel Hozak) was presenting smaller country example of how national imaging community has managed to grow by successfully coordinating national efforts in imaging and supports the pan-European infrastructure Euro-BioImaging as a part of the EuBI Interim Board and via two EuBI Node Candidates.

EoE I's first day was concluded by a talk from the Global BioImaging project coordinator Antje Keppler, who introduced the scope of the project and its objectives.

On the second day of the workshop, during the afternoon panel discussion, GBI partners were invited to present the status of their national research infrastructures. This dedicated panel session gave opportunity to share the experiences of imaging communities and enabled direct discussion on participant's expectations from GBI project. Imaging infrastructures were introduced by Argentina (Alfredo Caceres), India (Krishnamurthy Hanumanthappa), Japan (Mizuki Shimanuki) and South Africa (Bryan Trevor Sewell).

All of the above described talks were valuable examples of present status of research communities in general and imaging communities in particular in each country and allowed participants to gather different features of strengths represented by each infrastructure.



### **3.3 Outcome of the first *Exchange of Experience* workshop**

In addition of learning the valuable experiences from current status of different international imaging infrastructures and for the first time possible global networking at this scale, concrete action was taken regarding the future work and development of Global BioImaging project. During the three day discussions and parallel sessions, GBI partners were able to contribute to the definition of some of the project's key milestones. In particular, the programs for the upcoming GBI training courses for staff in imaging facility management and operation (MS7) as well as for image data management (MS12) were discussed and valuable input of need by different imaging communities heard and implemented into the program. Two organizing committees, (1) for core facility staff (CFS) training and (2) for image data management training courses were formed. These committees will organize and plan the upcoming workshops and identify and invite the suitable teachers according to the selected topics.

Work on establishing a common tool for virtual platform for CFS and user training material was also initiated and international working group on e-learning was established. It was commonly agreed that work would be based on the existing virtual training platform "MyScope", tool that has been created by the AMMRF in Australia, and this platform will be enlarged into a the global e-learning platform to serve the whole imaging community. The working group will plan and structure the content of e-learning platform and this work will be implemented within GBI project.

## **4. Next steps in exchanging the best practice in imaging infrastructure operation**

First *Exchange of Experience* workshop provided sharing and learning from the experiences and expectations from European and international Global BioImaging project partners. Based on these shared views, GBI partners better understand the diverse need of different imaging infrastructures on global scale. In this workshop GBI partners have identified the critical points of different infrastructures and the aspects that will need to be covered to share and establish the best practice in imaging infrastructure operation.

Exchanging the best practice will be implemented in four training courses for facility staff and facility management and for image data tools during 2016-2018. The main topics for these training courses were discussed and identified at the *EoE I* (see Annex 2. Minutes of GBI Break-out sessions I and II). In addition to these training courses, two additional *Exchange of Experiences* workshops will be organized to continue the discussion and collaboration on establishing a sustainable network of international imaging infrastructure partners in biological and medical sciences. These two workshops will be instrumental in the finalization and publishing of international recommendations on: “*Open user access to biological and medical imaging infrastructure*” and “*Quality assurance and management in open access imaging infrastructure*”. These recommendations will facilitate global interoperability of Euro-BioImaging with other international imaging infrastructures in their user services by standardization and harmonization of access protocols, methods, tests, reference materials, training programs as well as image data formats, analysis software and management. These recommendations and guidelines will be made publicly available to the global science community on GBI web site.

Global BioImaging project will organize next *Exchange of Experience II* workshop in September 2017 in Bangalore, India. The focus of this workshop will be on international open user access in imaging infrastructures. The second *EoE* workshop will be organized back-to-back with two other major imaging events that will take place in Bangalore in September 2017, Bangalore Microscopy Course (BMC 2017) and big Microscopy Conference on the advancements in microscopy. *Exchange of Experience III* workshop will be organized in Sydney, Australia in September 2018.

## Annex 1: “Exchange of Experience I” workshop program and links to presentations

Location: EMBL Heidelberg, ATC Courtyard Room A & B

### Wednesday, June 8<sup>th</sup> 2016

11:00 – 12:30	<b>3<sup>rd</sup> GBI Management Board Meeting (upon invitation): Separate Agenda</b>
12:30 – 14:00	Registration
14:00 – 14:15	Welcome (Jan Ellenberg, EMBL, Germany & John Eriksson, ÅBO Akademi, Finland)
14:15 – 14:45	<b>Keynote Speech</b> - Global Research Infrastructures from an Australian perspective (Miles Apperley, ANSTO, Australia)
14:45 – 15:15	<b>Keynote Speech</b> - Building Research Infrastructures in Europe and beyond - State-of-the-art and lessons learnt from ELIXIR (Janet Thornton, EMBL-EBI, UK)
15:15 – 15:45	<b>Keynote Speech</b> - Case Study I: Open Science - Advanced Imaging Centre (Teng-Leong Chew, Janelia Research Campus of the HHMI, USA)
15:45 – 16:30	Coffee Break
16:30 – 17:00	Euro-BioImaging Preparatory Phase II - Implementation of Open Access to Imaging in Europe (Jan Ellenberg, EMBL, Germany)
17:00 – 17:30	<b>Keynote Speech</b> - France BioImaging, from a network of Core Facilities to a National Distributed Infrastructure in BioImaging (Jean Salamero, Coordinator of the INBS France BioImaging, Institut Curie, Paris, France)
17:30 – 18:00	<b>Keynote Speech</b> - Case Study II: The Czech Republic - From community building to participation as Euro-BioImaging Node (Pavel Hozak, Institute of Molecular Genetics Prague, Czech Republic)
18:00 – 18:30	Global BioImaging: the project and its goals (Antje Keppler, EMBL, Germany)
18:30 – 20:00	Dinner at EMBL

### **Links to presentation slides from Wednesday, June 8th:**

Miles Apperley: <https://drive.google.com/open?id=0B5DC0Fh-KCIVGdfTEZ6dIAxMFk>

Janet Thornton: <https://drive.google.com/open?id=0B5DC0Fh-KCIUllmb0hMOExtbG8>

Teng-Leong Chew: <https://drive.google.com/open?id=0B5DC0Fh-KCIUUh1a1d4cms2TkE>

Jan Ellenberg: <https://drive.google.com/open?id=0B5DC0Fh-KClcU5qUXNITE5ZVjg>

Jean Salamero: <https://drive.google.com/open?id=0B5DC0Fh-KClfFNtbGNmZ1d1cTQ>

Pavel Hozak: <https://drive.google.com/open?id=0B5DC0Fh-KClAGNOV3ZCTzBoNTA>

**Thursday, June 9<sup>th</sup> 2016**

09:30 – 09:45	<i>Introductory session: Objectives of the upcoming activities (John Eriksson)</i>
09:45 – 12:30	<b>Break-out Sessions</b>
	<b>Session I (Courtyard Room)</b> Training for Imaging Facility Staff ( <i>Chair: Rainer Pepperkok</i> ) <ul style="list-style-type: none"> <li>• Benchmarking existing training courses for Imaging Facility Staff at international level</li> <li>• Building a virtual platform for training material</li> <li>• Gathering expectations on the GBI courses for Imaging Facility Staff</li> </ul>
	<b>Session II (ATC Seminar Room A - Helix)</b> Image Data Management ( <i>Chair: Jason Swedlow</i> ) <ul style="list-style-type: none"> <li>• State-of-the-art of available tools for analysis and image data processing across biological and biomedical imaging</li> <li>• Mapping of needs for a common virtual repository of software tools</li> </ul>
12:30 – 13:30	<i>Light Lunch</i>
13:30 – 14:45	<b>Summary of Break-out Sessions</b> ( <i>Chairs: Jan Ellenberg, John Eriksson</i> ) How to build global access, image data and training services in imaging research infrastructures?
14:45 – 15:15	<i>Coffee Break</i>
15:15 – 16:15	<b>Panel Discussion</b> ( <i>Moderator: Antje Keppler</i> ) Learning the experiences and expectations from international GBI partners
16:15 – 16:30	Closing Session – Summary and next steps ( <i>Antje Keppler</i> )

**Links to presentation slides from Thursday, June 9th:**

Introductory session by John Eriksson:

<https://drive.google.com/open?id=0B5DC0Fh-KClDmUzdjJCakdEenM>

***Session I: Training***

Session introduction by Rainer Pepperkok and Jean Salamero:

<https://drive.google.com/open?id=0B5DC0Fh-KCITU9XbEdrellyN2M>

Benchmarking existing training courses: <https://drive.google.com/open?id=0B5DC0Fh-KClemx3cWhwZ3JTMzQ>

Building a virtual platform for training material, MyScope:

<https://drive.google.com/open?id=0B5DC0Fh-KCIYIAtOHQ3Z2dXUm8>

**Session II: Image data**

Session introduction by Jason Swedlow:

<https://drive.google.com/open?id=0B5DC0Fh-KCITE5IMWo0X0VzN3M>

Available tools for image data analysis:

Medical Imaging Databank of the Valencia Region:

<https://drive.google.com/open?id=0B5DC0Fh-KClcHIFeGhvcUdxVEU>

German BioImaging:

<https://drive.google.com/open?id=0B5DC0Fh-KClcEprM3hweFoyWkk>

National Imaging Facility (NIF), Australia:

<https://drive.google.com/open?id=0B5DC0Fh-KCIY3ZncGp1RGNOZDg>

Data Management at Advanced Imaging Center, US:

<https://drive.google.com/open?id=0B5DC0Fh-KCIRTINLWWhpS0JELUK>

**Summary of breakout sessions:**

**Session I: Training**

John Eriksson: <https://drive.google.com/open?id=0B5DC0Fh-KClalcydGItX3hmV3M>

**Session II: Image data**

Jan Ellenberg: <https://drive.google.com/open?id=0B5DC0Fh-KCIYktsMVZKTHIZd2c>

**Panel discussion: Learning the experiences and expectations from international GBI partners**

Introduction by Antje Keppler:

<https://drive.google.com/open?id=0B5DC0Fh-KCIX0IINDFBOVBBa00>

Presentation by Argentina:

<https://drive.google.com/open?id=0B5DC0Fh-KCISXdFbmRRUEQwWWs>

Presentation by India: <https://drive.google.com/open?id=0B5DC0Fh-KCIRWZWcHFNYVh2ZFE>

Presentation by Japan: <https://drive.google.com/open?id=0B5DC0Fh-KClb0dUSFZmUWlyajQ>

Presentation by South Africa:

<https://drive.google.com/open?id=0B5DC0Fh-KCITzdnSS11MXEzeWM>



**Friday, June 10<sup>th</sup> 2016**

09:30 - 09:45	<i>Introductory session: Objectives of the upcoming activities (Jan Ellenberg)</i>
09:45 – 10:45	<b>Summarizing Break-out sessions</b>
	<b>Session I: Training</b> <i>(Chair: Rainer Pepperkok)</i>
	<b>Session II: Image data</b> <i>(Chair: Jason Swedlow)</i>
10: 45 - 11:15	<b>WP5: Exchange of People</b> – Shadowing Program for Facility Staff <i>(Lead: Silvio Aime)</i>
11:15 – 12:30	<b>Summary of Break-out Sessions and Closing Remarks</b> <i>(Chair: Antje Keppler)</i>

**Links to presentation slides from Friday, June 10th:**

Introductory session: <https://drive.google.com/open?id=0B5DC0Fh-KCIM29hZTNMLXd0Wkk>

**Work Package 5 (WP5) Exchange of People:** Shadowing program

<https://drive.google.com/file/d/0B5DC0Fh-KCITIZNcE1KSHIZRG8/view?usp=sharing>

**Summary of break-out sessions and closing remarks:**

<https://drive.google.com/open?id=0B5DC0Fh-KCIVGxURWV5RHRTLWc>

**Annex 2: Minutes of GBI Break-out Sessions I and II**

During the two days of *EoE I* workshop, both upcoming workshops for core staff facility training and image data management were structured and planned. Organizing committee and working groups were identified and next steps for finalizing the program of these workshops were taken. Core facility training and image data management workshops will take place 14-18<sup>th</sup> of November at EMBL, Heidelberg.

Minutes of Global BioImaging break-out Session I: Training

<https://drive.google.com/open?id=0B5DC0Fh-KCIZTjtWEZIZ0E5Z1E>

Minutes of Global BioImaging break-out Session II: Image data

<https://drive.google.com/open?id=0B5DC0Fh-KCIR1NhNEJKc3E5ZzA>

### Annex 3: List of “Exchange of Experience I” workshop participants

Last Name	First Name	Affiliation
Aime	Silvio	University of Torino
Andilla	Jordi	ICFO -The Institute of Photonic Sciences
Anger	Martin	Masaryk University
Apperley	Miles	Australian Microscopy and Microanalysis Research Facility
Bernardino de la Serna	Jorge	Science and Technology Facilities Council
Bernas	Tytus	Nancki Institute of Experimental Biology
Bulkescher	Jutta	NNF Center for Protein Research / Danish Stem Cell Center
Caceres	Alfredo	INIMEC-CONICET
Calvo	Maria	University of Barcelona
Chakraborty	Uttara	Indian Institute of Science
Chew	Teng-Leong	Howard Hughes Medical Institute Janelia Research Campus
Choquet	Daniel	CNRS
Ciuk	Marcin	Nencki Institute of Experimental Biology
Colombelli	Julien	IRB Barcelona
Cordelières	Fabrice	CNRS
de la Iglesia-Vaya	Maria	CEIB_AVS
Ellenberg	Jan	EMBL Heidelberg
Eriksson	John	Turku BioImaging
Fernandez-Rodriguez	Julia	University of Gothenburg
Filimonenko	Vlada	Institute of Molecular Genetics, v.v.i., Academy of Sciences of the Czech Republic
Galloway	Graham	National Imaging Facility
Ghose	Aurnab	Indian Institute of Science Education and Research (IISER)
Guns	Pieter-Jan	University of Antwerp
Guzman	Camilo	Åbo Akademi University
Herzog	Claire	France BioImaging
Hink	Mark	van Leeuwenhoek Centre for Advanced Microscopy, University of Amsterdam
Hozak	Pavel	Institute of Molecular Genetics
Jagavelu	Kumaravelu	Central Drug Research Institute
Janke	Andrew	CAI
Kankaanpää	Pasi	Turku BioImaging
Keppler	Antje	EMBL Heidelberg
Houtsmuller	Adriaan	Erasmus Medical Centre
Krishnamurthy	Hanumanthappa	National Centre for Biological Sciences
Leitner	Frauke	EMBL Heidelberg
Luini	Alberto	Institute of Protein Biochemistry

Markova May	Plamena Elisa	EMBL Bioimaging Center of the University of Konstanz
Munck Ninkovic Onami Paina Pepperkok Pietrasanta Posthuma Pukonen Rasse Renzulli Requejo-Isidro Rikhya	Sebastian Tanja Shuichi Federica Rainer Lia George Inga Tobias Michela Jose Richa	VIB/KU Leuven EMBL Heidelberg RIKEN Quantitative Biology Center EMBL Heidelberg EMBL Heidelberg UNIVERSIDAD DE BUENOS AIRES UMC Turku BioImaging EMBL ALTA Ricerca e Sviluppo in Biotecnologie Srlu CSIC Indian Institute of Science Education and Research, Pune, India
Salamero Sampson Sewell Shimanuki Stoynov	Jean David Bryan Trevor Mizuki Stoyno	France BioImaging, UMS CNRS-Institut Curie The University of Western Australia University of Cape Town Okinawa Institute of Science and Technology Institute of Molecular Biology Roumen Tsanev
Swedlow Terjung Thiriet Thornton Tischer Tromba Ueno Utz van Rooyen van Zandvoort Viale Weninger Weyn Zimmermann Thumser Ankerhold Tewinkel Fennema Muelter Shapter Widerøe Heerschap Janson Le Dévédec	Jason Stefan CAROLINE Janet Christian Giuliana Naoto Nadine Jason Marc Alessandra Wolfgang Babs Timo Christoph Richard Martin Herman Andrea Joe Marius Arend Marcel Sylvia	University of Dundee EMBL Heidelberg France BioImaging EMBL EMBL Heidelberg Elettra-Sincrotrone Trieste National Institute for Basic Biology German BioImaging / University of Konstanz University of Cape Town Maastricht University University of Torino Medical University of Vienna KU Leuven Centre for Genomic Regulation Leica Zeiss Olympus Nikon Leica AMMRF NTNU Radboud University Medical Centre Wageningen University Leiden University