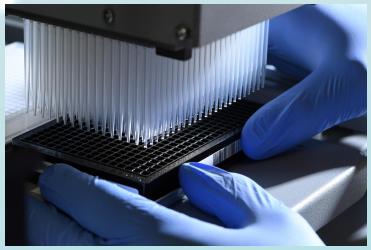
CORBEL shared services for life-science

For the Advancement of Science – Working With Biomedical RIs

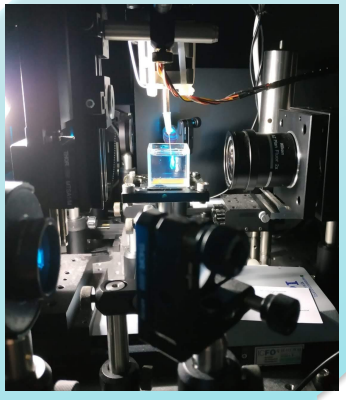
4th and final AGM, 2.3.2020, Brussels

Chair: Frauke Leitner (Euro-BioImaging) and Sonja Hansen (MDC)

CORBEL Mission

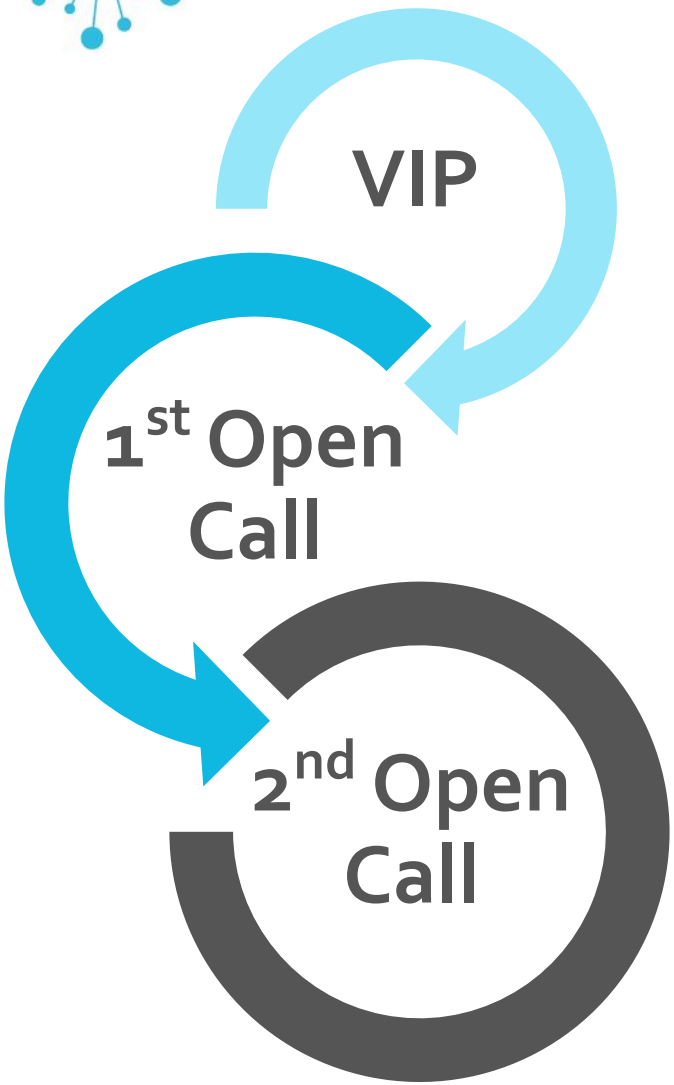


Harmonizing access and services across RIs and across cutting-edge technology platforms…



…for supporting modern and pioneering research

WP4: Piloting the provision of open user access across Research Infrastructures



Step 1: VIP projects

- Build on **pre-existing RI user contacts**
- Quickly establish **joint access procedures**

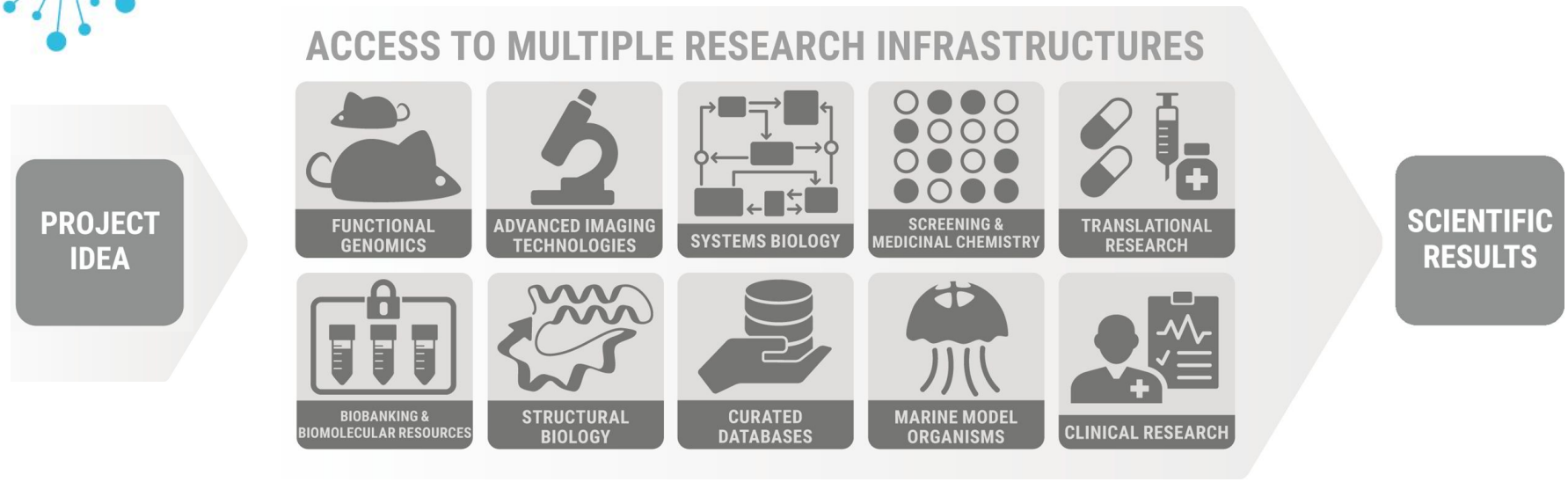
Step 2: 1st Open Call

- **Public advertisements** to the European research community at large
- **High publicity and visibility** for life science RIs
- Provision of **unbiased, open access**

Step 3: 2nd Open Call

- Incorporating user and service provider **feedback**
- **Improving** processes, communication, selection criteria
- **Widening service portfolio** by linking to medical RIs

CORBEL Open Call - access across life science RIs



PLANNING SUPPORT

- Open Call offered **access to cutting-edge technologies and services at more than 20 service providers from 10 European RIs**
- Successful projects receive **constant support** from Open Call project managers
- **CORBEL funds are used to cover requested access** and for **travel grants** for users
- Users are both from **academia and industry**

Supporting advanced research projects across Europe

Applicant profiles

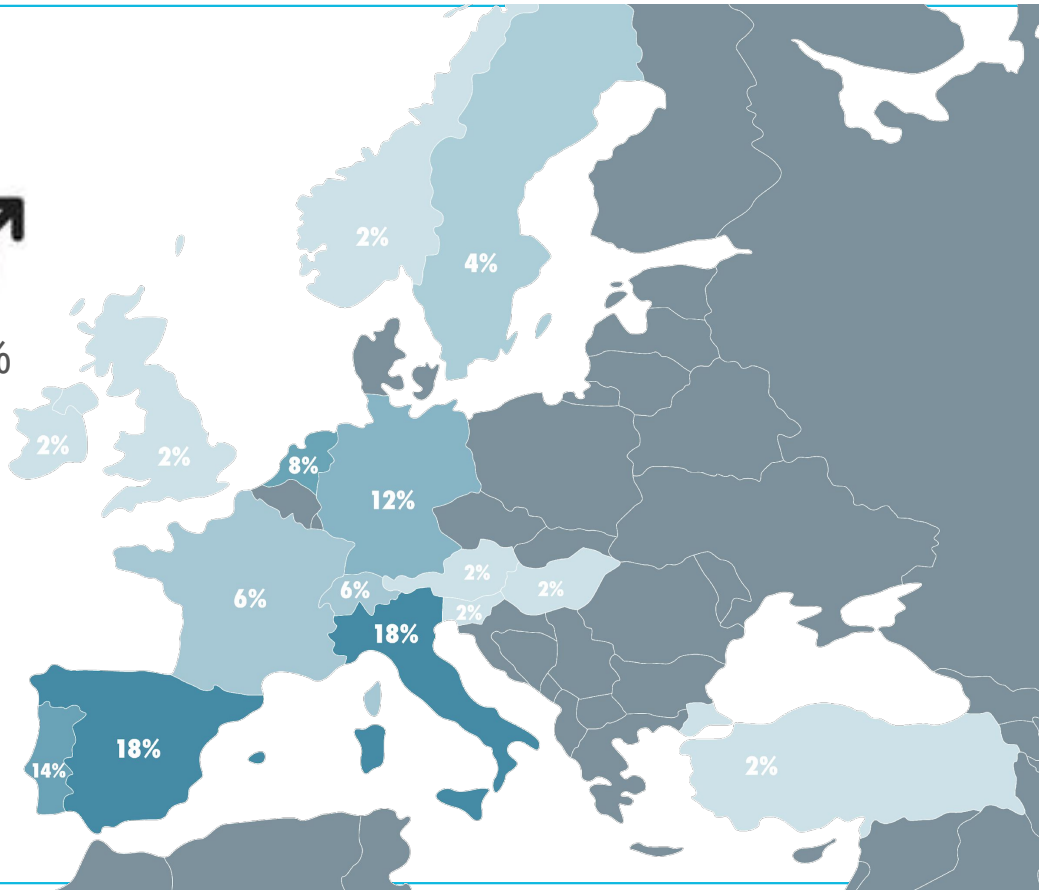
Organisation legal status

University 70%
Public research organisations 22%
SME 6%
Other 2%

Gender

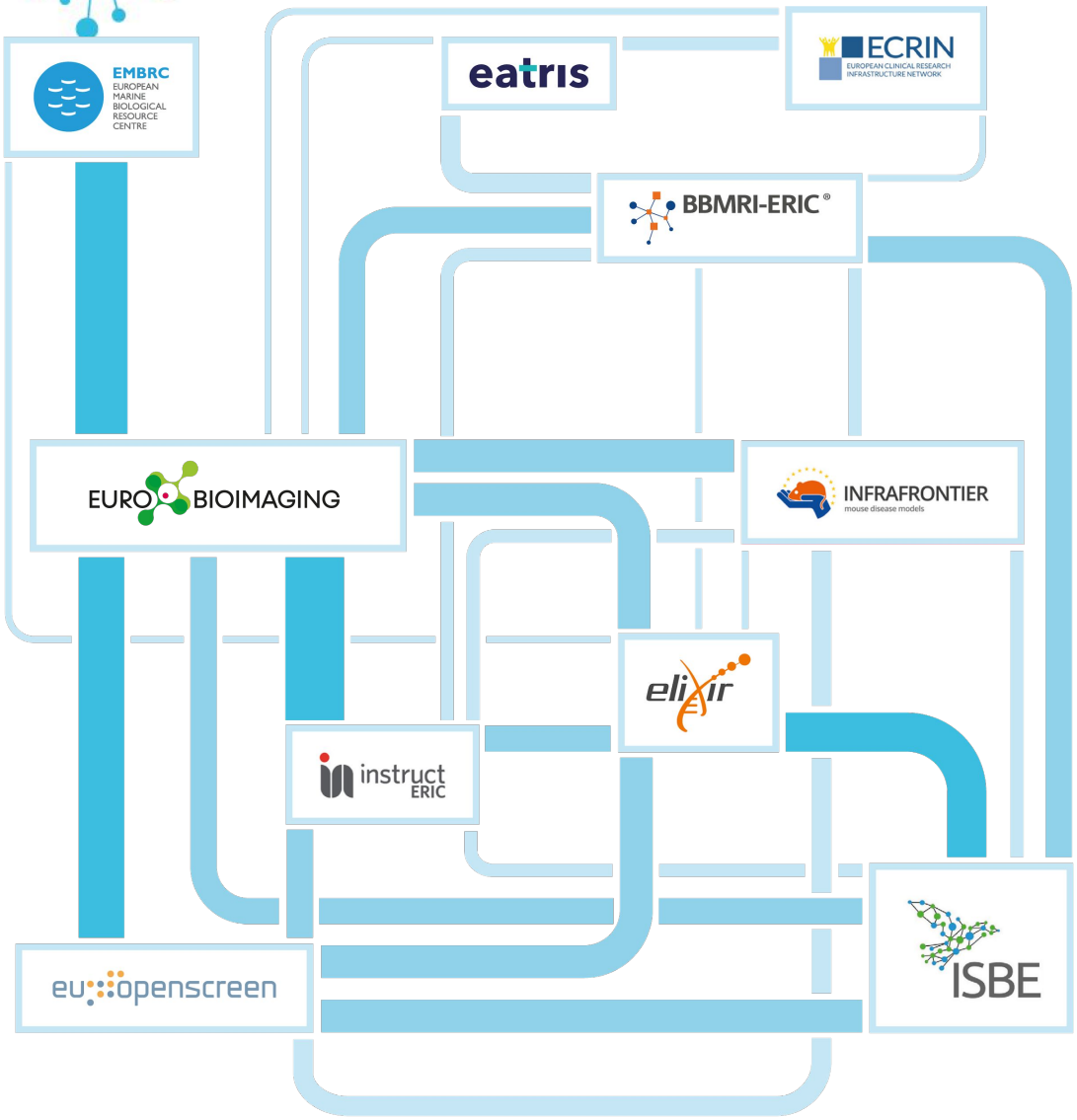
34% ♀ 66% ♂

Users include scientists at all career levels



37 projects passed the evaluation process & benefit from open access to technologies, services & expertise plus the CORBEL travel grant

Scientists build their own pipelines between RIs



All eligible Open Call applications (53) considered

Continued project support and interaction drive Open Call projects

Benefits for Users and Service Providers

Users' benefits

- Access to otherwise inaccessible technologies & highly skilled technical expertise
- Financial support to conduct project
- Producing high-quality data for their research
- Establishing long-term collaborations
- Improving skill set and technology know-how

Service Providers' benefits

- Buildings bridges between life science communities
- Working on new challenges can push their systems to new frontiers
- Increasing their visibility, also towards industry
- Training and personal development
- Centralized project coordination

User Testimonials

‘When we read about the CORBEL Open Call we thought it was a great opportunity to gain access to important Research Infrastructures with experience that is not at all present in our laboratory. Through this call, we have filled a gap improving our research.’

‘It enables a global view of the project and makes the process faster and simpler.’

The invaluable impact of CORBEL on our research was the possibility to obtain a huge amount of results and scientific information in an extremely short time and to learn from experts the best strategies to set up a screen.

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CORBEL finishes – what now?

WP4 strategy to sustain achievements such as….

- Increased interaction and collaboration between BMS RIs
- Driving creation of scientific results, many publications in preparation
- Increased visibility of RI services
- Shaping cross-RI service provision
- Deeper knowledge of the purpose of other RIs
- Central contact point between different RIs for consultation

Bilateral Collaboration Agreements to support common access – first ones signed, more to come!

Mechanism of Collaboration - examples

- **Exchange (visits)** of RI operational and managerial staff
- **Promotion** of the RIs both collectively as well as individually
- **Providing support** for projects interested in making the transition from one RI to the other
- Allowing a **fast-track** for projects previously scientifically evaluated by the other RI
- Developing a strategy for **realizing funds** for interdisciplinary projects

Promotion of the RIs both collectively as well as individually – e.g. FEBS 2019, Krakow

Increased visibility of RI services

- Brochure demonstrates benefits of working with RIs
- Addressed to scientists and policy makers

- Advertisement of RI services on joint website (WP2 -> now BBMRI)

- Production of 2 videos highlighting RI services and success stories
- for LS RI website and individual RI websites
- Conferences
- Social media

Thank you!

J. Ellenberg, EMBL-HD [EuBI]

J. Steinkötter, MDC [ISBE]

F. Leitner, EMBL-HD [EuBI]

S. Hansen, MDC [ISBE]

M. Vidal, MDC [ISBE]

C. Popp, MDC [ISBE]

A. Keppler, EMBL-HD [EuBI]

K. Herzog, EU-OS

T. Miletic, EU-OS

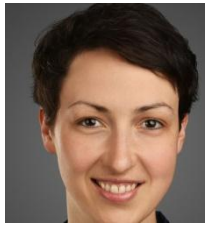
R. Cattaneo, CNRS [EMBRC]

M. Siaud, CNRS [EMBRC]

E. Houliston, UPMC [EMBRC]

S. Battaglia, ECRIN

F. Schmidt-Tremmel, Elixir


C. Hauk, DSMZ-[MIRRI]

N. Haley, INSTRUCT

F. Sanderson, INSTRUCT

S. Daenke, INSTRUCT

All technical and administrative staff of the participating **service providers** from **BBMRI, EATRIS, ECRIN, Elixir, EMBRC, EU-OPENSCREEN, Euro-BioImaging, Infrafrontier, Instruct** and **ISB**

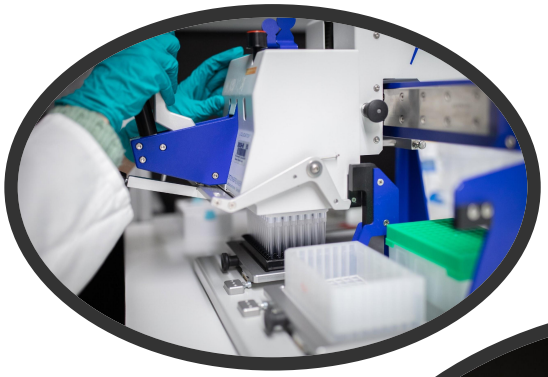
S. Jupp, EBI [Elixir]

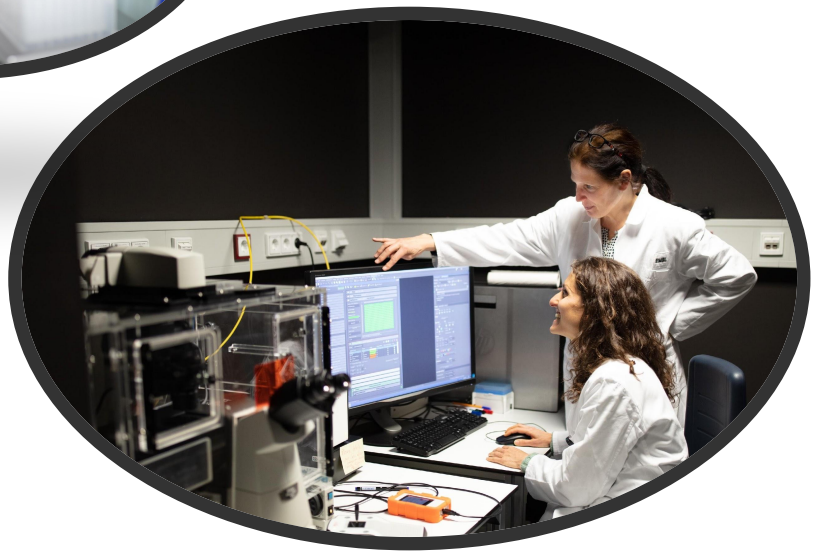
N. Juty, EBI [Elixir]

V. Matser, EBI [Elixir]

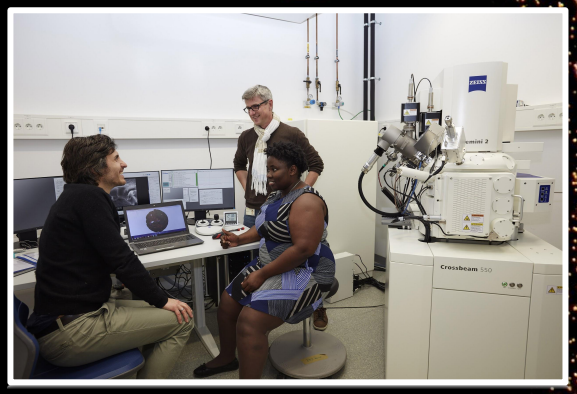
Screening for active compounds against acute myeloid leukemia

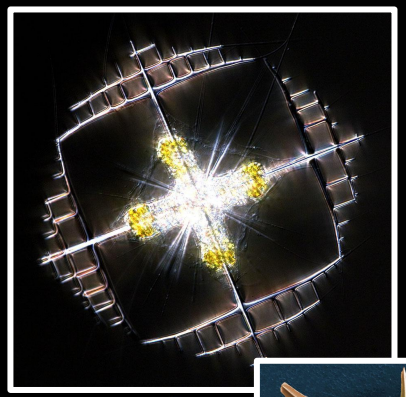
- ★ Maria Paola Martelli, University of Perugia
- ★ Roberta Ranieri, University of Perugia
- ★ Martin Neuenschwander, FMP, EU-Openscreen





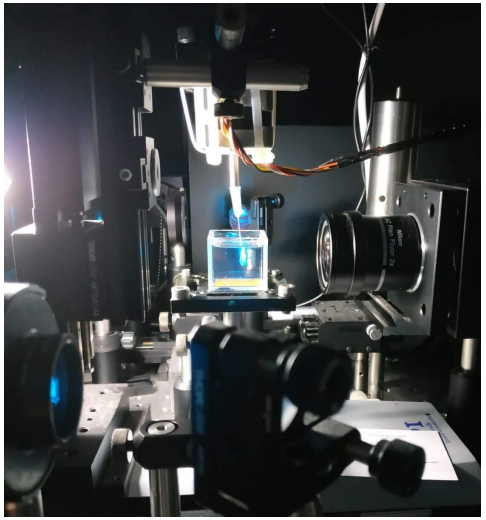
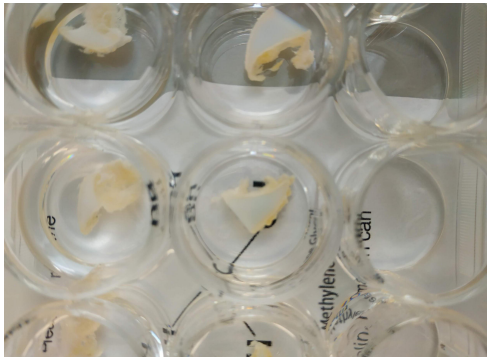
Chloroplast plasticity in planktonic symbioses unveiled by nanoscale imaging





★ Johan Decelle, University of Grenoble Alpes

★ Raffaela Cattaneo, Institut de la Mer de Villefranche, EMBRC

Sharks, skeletons and spectral imaging: Exploring the hidden life of chondrocytes and tessellated cartilage

- ★ Mason Dean, MPI of Colloids and Interfaces
- ★ Júlia Chaumel, MPI of Colloids and Interfaces
- ★ María Marsal, Institute of Photonic Sciences, Euro-BioImaging