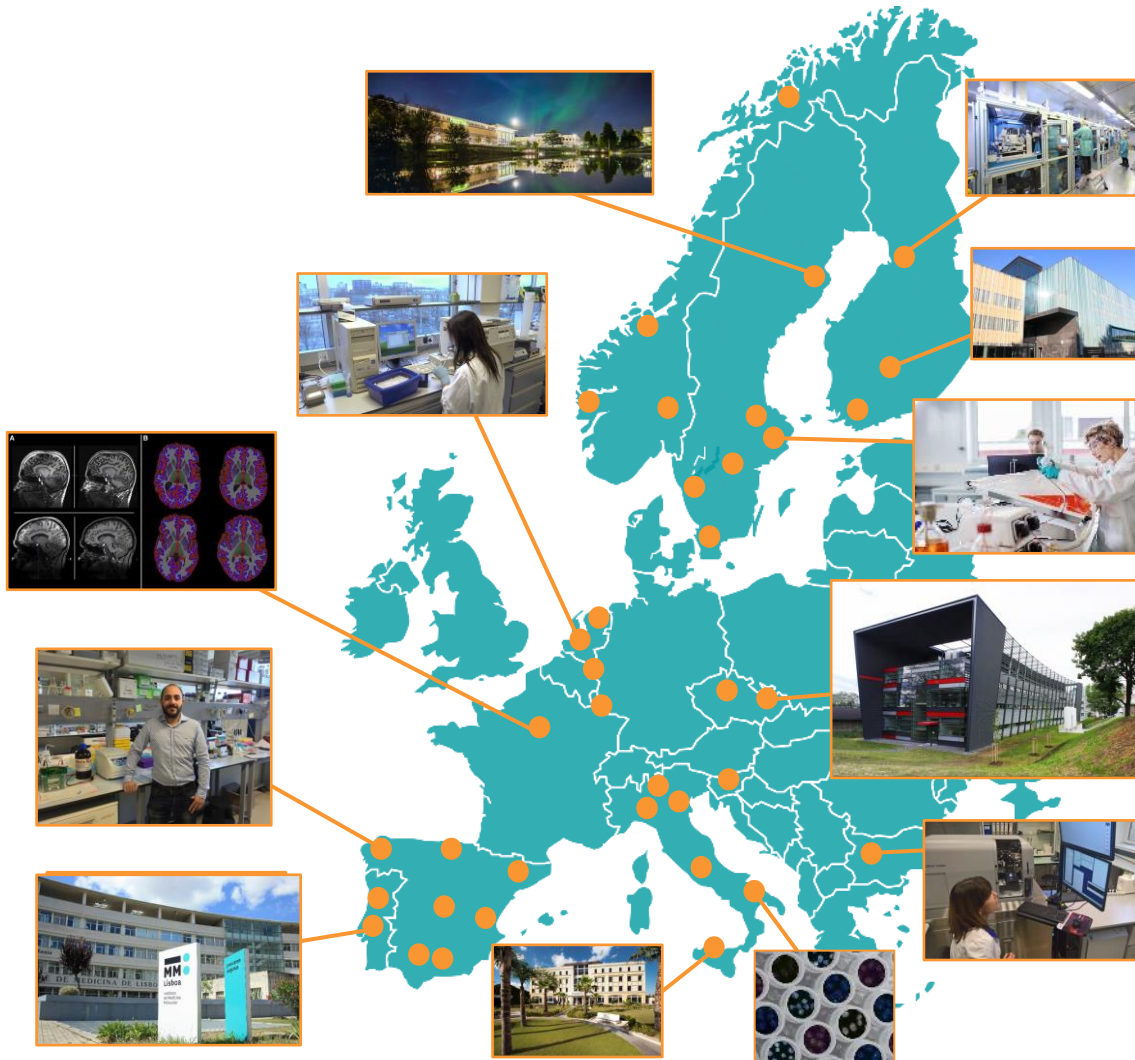


Le infrastrutture europee a sostegno della ricerca nelle Scienze della Vita

Introduzione a EATRIS



Technology Forum Life Sciences
Milano, 13/09/2023



Key objectives:

- To reduce fragmentation of the research and innovation ecosystem and avoid duplication of effort
- To promote collaboration between scientist and join forces and resources to address common problems
- To foster the innovation potential by making industry more aware of opportunities offered to improve their products and by the co-development of advanced technologies

Life Sciences Research Infrastructures



BIOBANKING & BIOMOLECULAR
RESOURCES



CURATED DATABASES



HIGHLY PATHOGENIC
MICROORGANISMS



FUNCTIONAL GENOMICS



MICROORGANISMS

eatris

TRANSLATIONAL RESEARCH



MARINE MODEL ORGANISMS



SCREENING & MEDICINAL
CHEMISTRY



STRUCTURAL BIOLOGY



CLINICAL TRIALS



PLANT PHENOTYPING



BIOLOGICAL/MEDICAL IMAGING



SYSTEMS BIOLOGY

Who we are

Facilities, resources and services to support cutting edge research



EATRIS countries

Bulgaria, Croatia, Czech Republic, Finland, France, Italy, Latvia, Luxembourg, Netherlands, Norway, Portugal, Slovenia, Spain, Sweden



150
Research Institutes



5 Scientific Platforms

- ATMPs
- Biomarker
- Imaging & Tracing
- Small Molecules
- Vaccine, inflammation and immune monitoring



Legal status

Non-profit, ERIC legal status

Examples of
key actions



GSK
HUB



eatris+

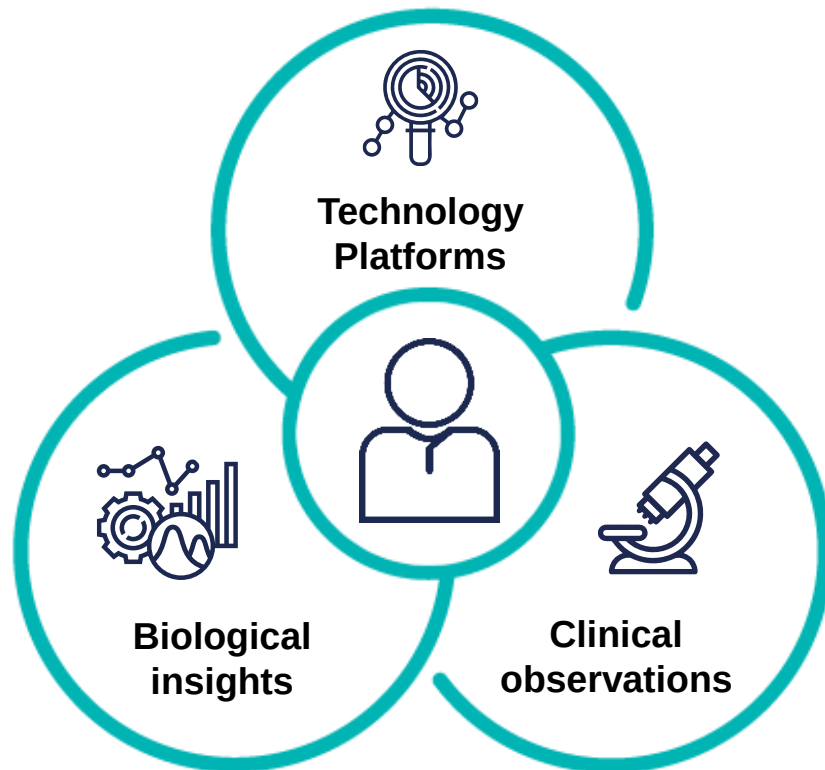
Our mission



To accelerate the translation of research discoveries into patient benefit.

We **support, using our capacities and expertise** academia, industry, patients and policy makers.

What do we do



1

User access research and expert services

2

Develop new research tools

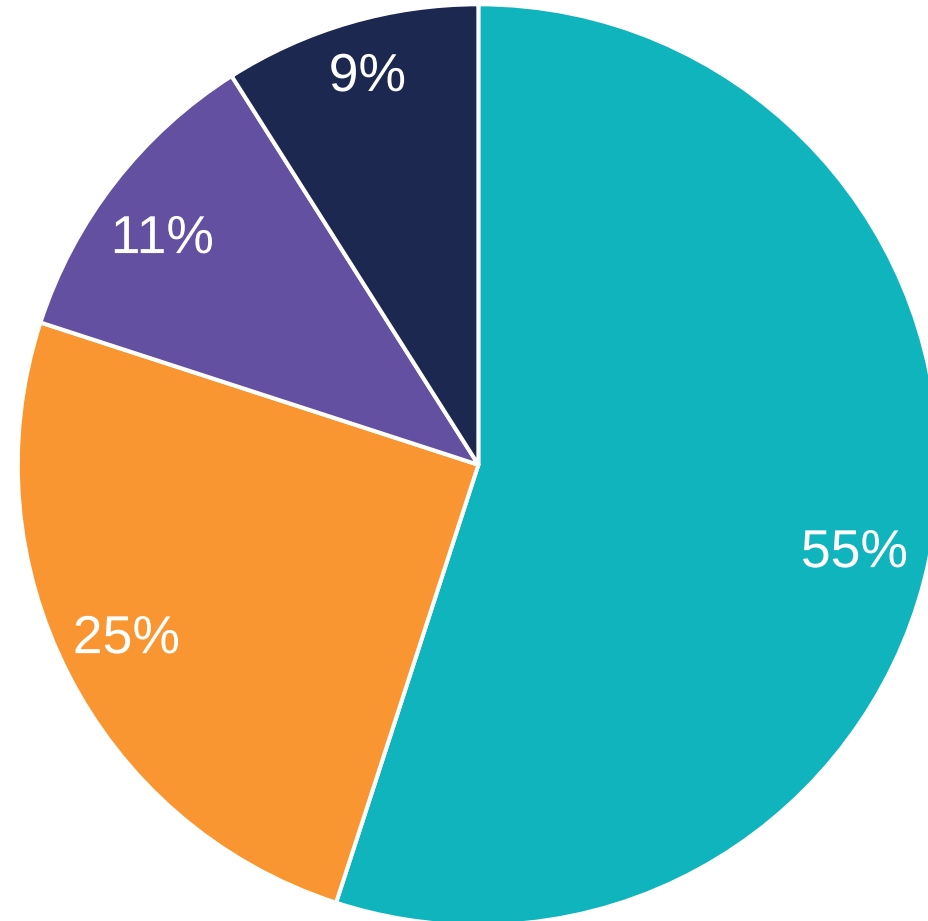
3

Provide education and training

4

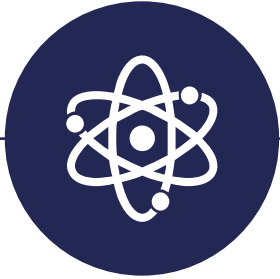
Improve conditions for translation

Users served through EATRIS C&S 2014 – 2022 (547)

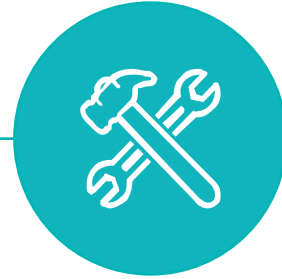


■ Academia ■ SMEs ■ Charities/Funders ■ Pharma

Offering services to Industry



Access to academic
expertise
technology
facilities



Validated **tools**
that **improve** your
development
programme

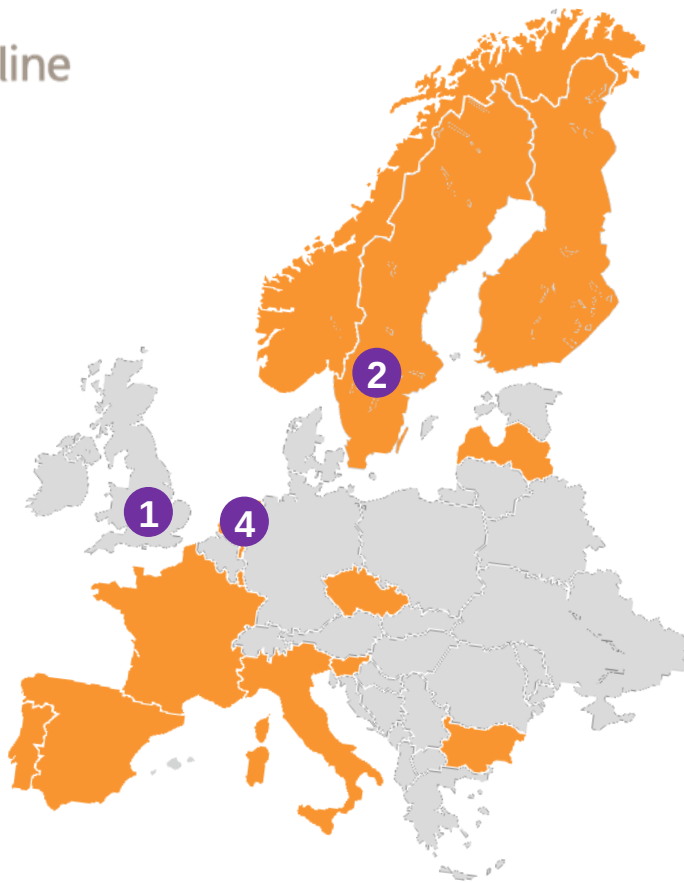


Facilitate your
public-private
collaborations

Partnering examples: GSK imaging hub



12 active projects
including
2 in the clinic and
1 PhD programme



News

UNIQUE HUB COLLABORATION - IMAGING METHOD DEVELOPMENT IN INFLAMMATORY DISEASES

International multi-site collaboration hub will implement new clinical imaging tools and deliver several projects per year with enhanced speed and throughput.

Amsterdam, The Netherlands, June 4, 2018 – The European Infrastructure for Translational Medicine (EATRIS) has formed a collaboration with GlaxoSmithKline (GSK) to deliver a clinical and scientific expert network for the development and application of innovative imaging methods for inflammatory diseases.



Advanced imaging. The initiative is aimed at optimising existing imaging technologies for drug development and clinical translation of emerging probes.

While existing clinical imaging tools provide useful endpoints in clinical trials, they typically lack sufficient cellular and molecular information to fully understand drug response. Imaging has the potential to interrogate inflammatory cell populations, quantitatively in different tissues. This alliance aims to unlock this potential by delivering new clinical tools. Applying imaging in information-rich, small cohort studies can provide a high, immediate impact to enhance R&D productivity; developing our understanding of disease in the patient; enriching clinical trial cohorts; measuring therapeutic response.

The imaging hub aims to achieve these goals by (1) optimising existing magnetic resonance imaging (MRI) and positron emission tomography (PET) technology for drug development; and (2) translating emerging PET and optical cell-specific probes towards the clinic. The first three projects with a focus around immune cell specific imaging have now been initiated.

Offering services to Academia

EATRIS offers a range of services to help researchers strengthen the translational potential of their research proposals:



**FORMING A
CONSORTIUM**



**JOINING AS A
PARTNER**



**LEADING FLAGSHIP
PROJECTS**

Project Overview

EATRIS is a partner in the following projects:

- Training
- Industry Collaborations
- Personalised Medicine
- Quality and Reproducibility
- Research Infrastructure Development

	• Creating a network of genetic and clinical data across Europe		JUNE 01 — 31 2020 — 2023
	• Connecting well-established data resources of the COVID-19 data platform		MAR 24 — 31 2021 — 2023
	• Providing cutting edge cancer research services across Europe		SEPT 01 — 31 2022 — 2025
	• Addressing the main challenges faced by SMEs developing companion diagnostics (cdx)		NOV 01 — 31 2019 — 2022
	• Delivering innovative scientific tools to support the long-term sustainability strategy of EATRIS in PM		JAN 01 — 31 2020 — 2023
	• EDITSCD - Assessing efficacy and safety of genome editing approaches for sickle cell disease		SEPT 01 — 31 2022 — 2027
	• Creating an effective rare diseases research ecosystem for progress, innovation and for the benefit of everyone with a rare disease		JAN 01 — 31 2019 — 2023
	• Demonstrating an operational EOSC Platform for researchers		APR 01 — 30 2021 — 2023
	• Creating an open collaborative digital space for life science		MAR 01 — 31 2019 — 2023
	• A European foundation to accelerate data-driven cancer research		SEPT 01 — 28 2022 — 2025



- European Federation for cancer images



JAN
01 — 31
2023 — 2026



- Integrated services for infectious diseases outbreak research



FEB
01 — 31
2022 — 2025



- Building a sustainable European innovation platform to enhance the repurposing of medicines for all



SEPT
01 — 31
2022 — 2027



- Trustworthy AI for improvement of stroke outcomes



MAY
01 — 30
2023 — 2028

- Accelerating biomarker discovery and validation to support therapeutics development for neurodegenerative diseases



NOV
01 — 31
2021 — 2026

- Strengthening the research and innovation capacity of the European Reference Networks (ERNs)



MAR
01 — 28
2021 — 2025

- Hub to support clinical drug development and treatment monitoring of immune-inflammation and infectious diseases



FEB
01 — 31
2016 — 2025

- Contributing to the creation of a European Health Data Space



MAR
01 — 31
2021 — 2023

- HEAL - HLA-homozygous iPSC-cardiomyocyte aggregate manufacturing technologies for allogeneic cell therapy to the heart



SEPT
01 — 28
2022 — 2026

- Improving reproducibility in science



SEPT
01 — 31
2023 — 2026

- Stimulating the wider uptake of structural biology across Europe



FEB
01 — 31
2020 — 2024

- Applying innovative approaches to identify the molecular mechanisms in T2D patients



JAN
01 — 31
2020 — 2023

- Improving the structure and integration of European Research Infrastructures (RIs) and Technology Infrastructures (TIs) for impact

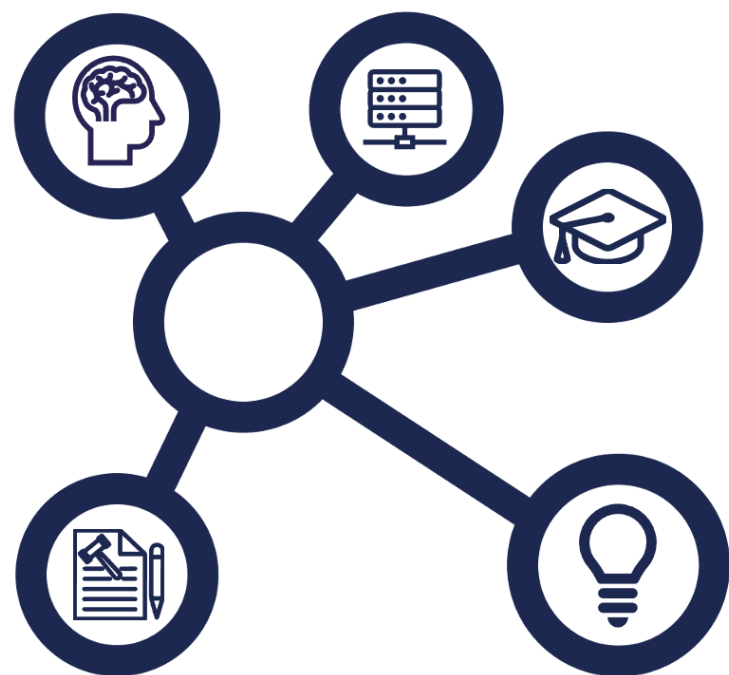


APR
01 — 30
2023 — 2025

- Accelerating drug repurposing for rare neurological, neurometabolic and neuromuscular disorders



JULY
01 — 30
2023 — 2028



eatris Expert Centres

Find out more here: eatris.eu/eatris-expert-centres



EATRIS commitment to accelerate patient engagement in academic research

**SUPPORT
PATIENT
EDUCATION**

**TRAIN
RESEARCHERS
ON MEANINGFUL
PATIENT
ENGAGEMENT**

**CO-CREATE
RESEARCH
WITH PATIENTS**



Visit our dedicated webpage: eatris.eu/patient-engagement

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QUALITY INITIATIVE

An umbrella structure for EATRIS activities addressing reproducibility, best practice guidelines, benchmarking, standards and reference materials.

Find out more about our work to address data quality and reproducibility in translational medicine here:
eatris.eu/eatris-quality-initiative/

Education and training: e-learning available



Educating the next generation of
Advanced Therapy Medicinal
Products (ATMP) developers



The EATRIS e-learning
platform for translational research
e-learning.transmedacademy.eu



EATRIS Italy

2021

vs

2022

EATRIS in Italy consists of 25 institutes:

- Centro di Riferimento Oncologico di Aviano (CRO Aviano)
- Centro Medicina Rigenerativa (CMR)
- CNCCS - IRBM Science Park
- Fondazione IRCCS CRIBT
- Fondazione IRCCS Fondazione Pascale
- Fondazione IRCCS Giovanni Paolo II
- Fondazione IRCCS Istituto Nazionale dei Tumori (INT-Milan)
- Fondazione IRCCS Ospedale Pediatrico Bambino Gesù
- Fondazione IRCCS SDN per la Ricerca e l'Alta Formazione in Diagnostica Nucleare
- IDI-Fondazione IRCCS Luigi Maria Monti
- IRCCS Foundation Santa Lucia

- IRCCS Istituto Giannina Gaslini (IGG)
- IRCCS Istituto Ortopedico Galeazzi
- ISMETT
- Istituti Fisioterapici Ospitalieri - Istituto Dermatologico "San Gallicano"
- Istituti Fisioterapici Ospitalieri - Regina Elena Tumor research
- Istituto Romagnolo per lo Studio dei Tumori "Dino Amadori" (IRST) - IRCCS
- Istituto Superiore di Sanità (ISS)
- Mario Negri Institute for Pharmacological Research
- National Institute for Infectious Diseases Lazzaro Spallanzani
- Rizzoli Orthopedic Institute (IOR)
- Scientific Institute San Raffaele (HSR)
- Fondazione Policlinico Universitario A. Gemelli IRCCS
- IRCCS Istituto Giannina Gaslini (IGG)
- University Milano-Bicocca (UNIMIB)

Board of Governors representative



Maria Ferrantini
Istituto Superiore di Sanità (ISS)

National Director



Franca Moretti
Istituto Superiore di Sanità (ISS)



EATRIS Italy was involved in the following 3 funding proposals in 2021, totalling over € 4,572,589:

- ISIDORE
- CANSERV
- REMEDI4ALL

EATRIS Italy is also involved in the following 4 ongoing projects:

- ADVANCE
- EATRIS-PLUS
- EU-PEARL
- TRANSVAC2

EATRIS Italy took part in 22 education and training activities in 2021 involving 275 participants.

EATRIS Italy was involved in the following funding proposals in 2022:

- REMEDI4ALL

EATRIS Italy is also involved in the following ongoing projects:

- ADVANCE
- EOSC-Life
- EATRIS-Plus
- TRANSVAC2
- ISIDORE
- canSERV

EATRIS Italy took part in 13 education and training activities in 2022 involving 117 participants.



<http://www.aiatris.it/>

With thanks to our funders and partners



**The Swedish contribution is from Vinnova

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