EMBL in Italy : European Molecular Biology laboratory and its national network

Phil Avner Head of EMBL Rome



EMBL's Core Principles





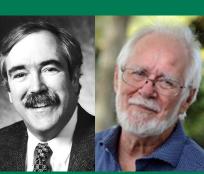
Excellent science

3 Nobel Prize winners

Eric F.

Wieschaus





Christiane Nüsslein-Volhard Jacques Dubochet > 30%

of group leaders hold ERC grants 31

scientists in Thomson Reuters' list of Highly Cited Researchers

EMBL ranks in top **10** research institutes > 45%

of EMBL's publications in the top

5%

of journals in biochemistry, genetics and molecular biology



05/11/2019

EMBL's missions



EMBL

EMBL sites: Over 1700 people and more than 80 nationalities





EMBL and Italy



- Italian Nationals working for EMBL at present = 11
- Italian Nationals having worked at EMBL over last 5 years
 = 52

In both cases 3rd most important country

• 706 Italian EMBL Alumni worldwide, of which 221 in Italy

Training

Internal	External	
200 PhD students, 250 postdocs	~ 7000 guests per year	
EMBL International PhD Programme	EMBL Courses and Conferences	
EMBL Postdoctoral	EMBL Visitor Programme	
Programme	Online training	
General Training and Development	European Learning Lab for the Life Sciences (ELLS)	

Italian participation in Courses and Conferences at EMBL

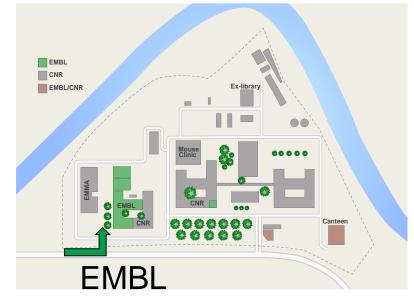
- Close to 800 participants in 2017-2018
- 14 Italian nationals received EMBL Corporate Partnership Fellowships in 2018
- In 2018, 26 off-site events were organised in Italy with over 2800 participants



People on site at EMBL Rome at Monterotondo

At EMBL Rome **84** staff members, of whom:

9 Italian Postdoc Fellows
13 Italian PhD Fellows
14 Italian interns (Masters)
41 non-Italians



IBCN-EMMA 104 of which 59 scientific personnel

EMBL Rome 20th Anniversary Monday 8th July 2019



Refocusing of Research in Rome around Neurobiology & Epigenetics and their interface

EMBL Rome Renovation



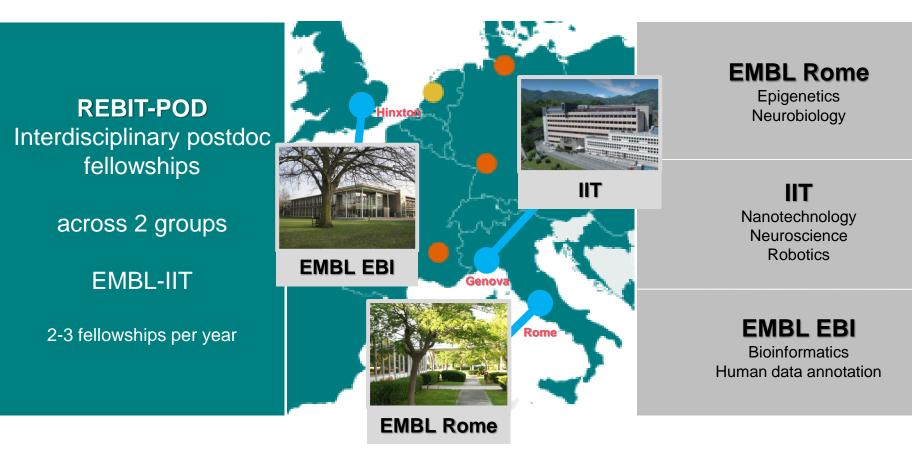


Reinforcing Collaborations with Italian Institutes

- Joint High Level Seminar Programme in Neurobiology and Epigenetics between La Sapienza and EMBL Rome
- EMBL in Italy Alumni Meetings (Rotating Meetings)
- REBIT-POD Joint Fellowship Scheme between EMBL Rome, EMBL EBI and IIT signed in 2018, started 2019

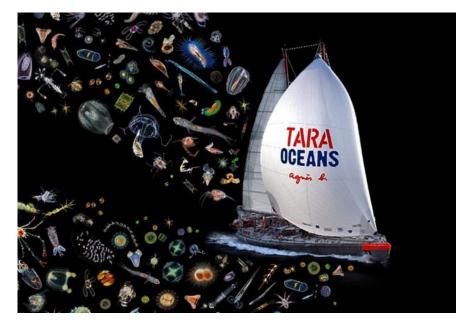


Postdoctoral Fellowships with Italian Institute of Technology (IIT)





EMBL and Tara Molecular biology in oceans research



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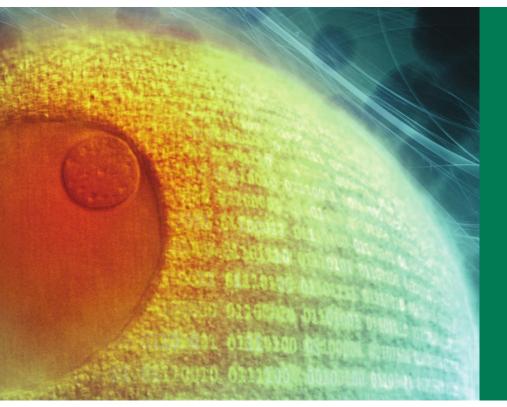
Tara Stopover in Rome : Talking about Microplastics







Understanding life



Research Programme 2017–2021:

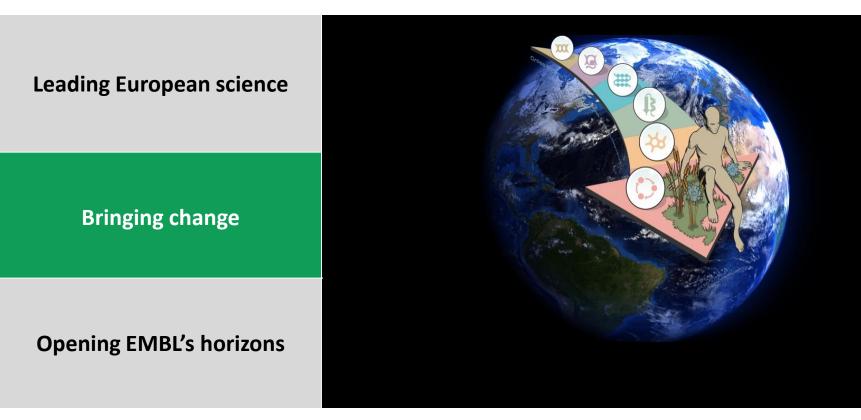
DIGITAL BIOLOGY Bridging scales: molecules to ecosystems

The big data challenge

Towards human biology and molecular medicine

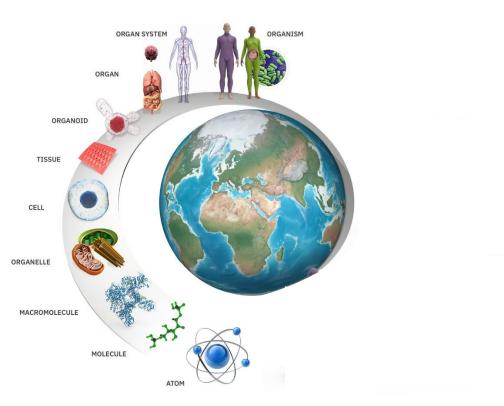


Looking ahead: The next EMBL programme





From Atoms to Ecosystems: Towards an understanding of organisms in their environment



Build on our current programme to bring novel molecular and mechanistic insights into biodiversity

> Integrate environmental information into the study of organisms with new research and services

Understand impact of humans on the environment and of the environment on humans

Address societal concerns surrounding human and planetary health (eg UN declared that 2021 – 2030 would be the Decade on Ecosystem Restoration)

Provide solutions - not just alerts - to global challenges: antibiotic resistance, biodiversity collapse, climate change, pollution



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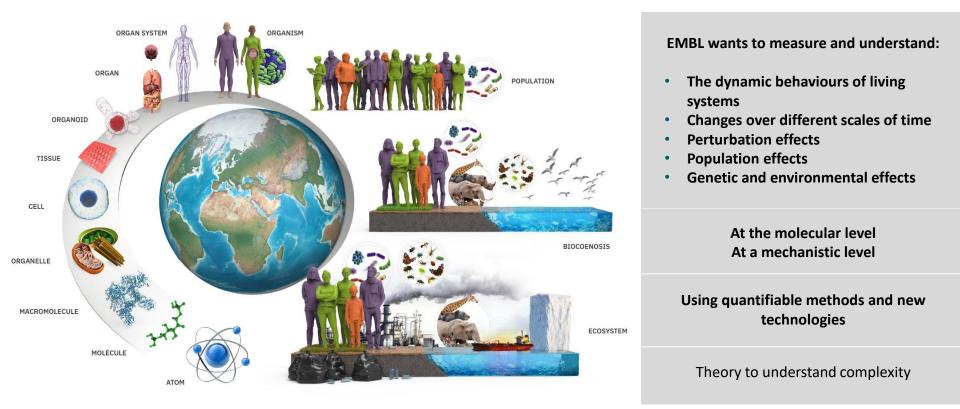
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Thank You !!

