

Facts and Figures

IIT in Numbers

30th April 2018



Center for Neuroscience e Cognitive Science,
Università di Trento, TRENTO



Center for Genomic Science,
Campus IFOM-IEO, MILANO



Center for Nano Science and Technology,
Politecnico di Milano, MILANO



Center for Sustainable Future Technologies,
Politecnico di Torino, TORINO



Center for Translational Neurophysiology,
Università di Ferrara, FERRARA



Center for Microbiorobotics,
Scuola Superiore Sant'Anna, PISA



Center for Nanotechnology Innovation,
Scuola Normale Superiore, PISA



Center for Life Nanoscience,
Università degli Studi di Roma La Sapienza, ROMA



Center for Advanced Biomaterials for Health Care,
Università Federico II di Napoli, NAPOLI



Center for Biomolecular Nanotechnologies,
Università del Salento, LECCE



Center for Cultural Heritage Technology,
Università di Venezia, VENEZIA



ISTITUTO ITALIANO
DI TECNOLOGIA

Central Research Laboratories, GENOVA



- Machine Learning, MIT, BOSTON (USA)
- Neurobiology Dept., Harvard Univ., BOSTON (USA)

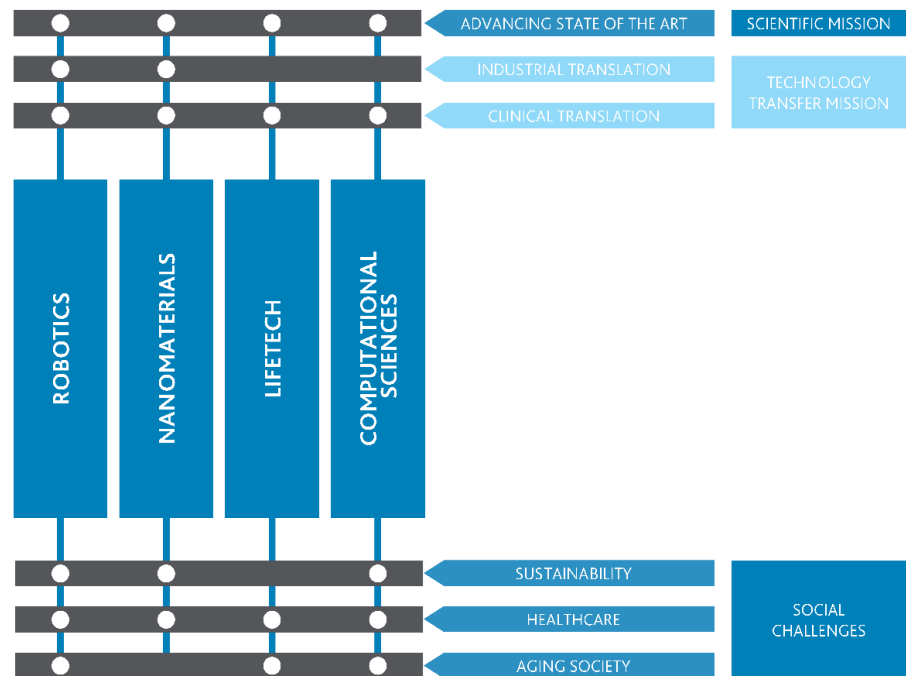
The scientific plan consists of **4 Research Domains**:

Robotics advances the state of the art by developing new robotic platforms in hardware and software

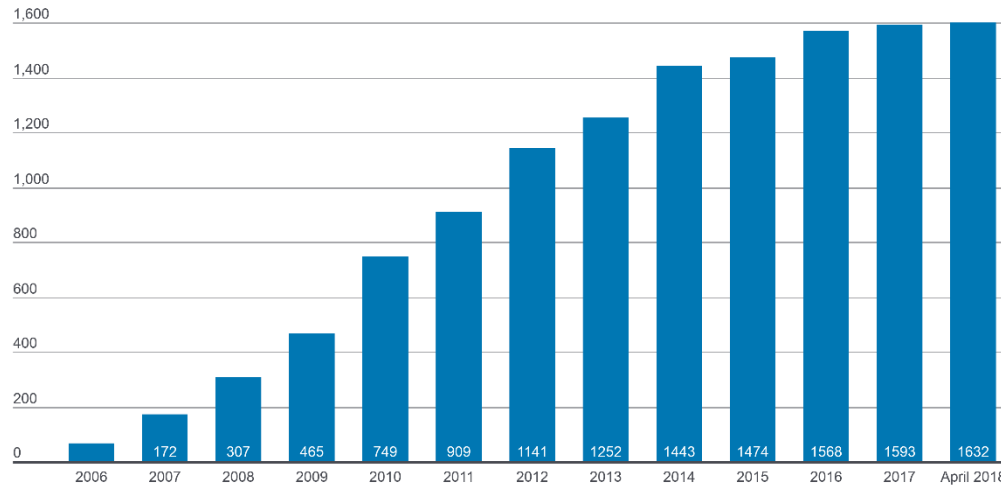
Nanomaterials includes new sustainable/biodegradable materials, nanocomposites, 2D materials, nanofabrication technologies and nanodevices, and new colloidal chemistry approaches

LifeTech is devoted to develop advanced genetic, molecular, electrophysiological, computational, imaging, and perturbation tools for dissecting the microscopic neural processes underlying brain function

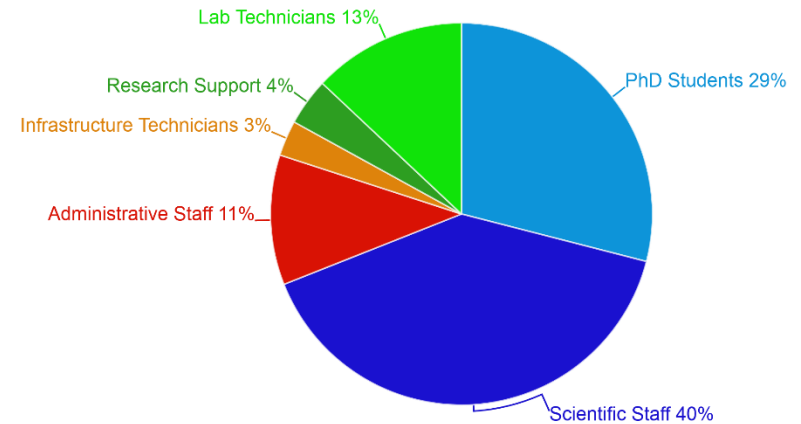
Computational Sciences is focused on massive simulations of physical systems and data analysis in general, including images, videos and sounds. The aim is to investigate and improve the knowledge in the several scientific and technological domains, in order to design intelligent systems able to cope with real-life situations



Staff – Annual Growth

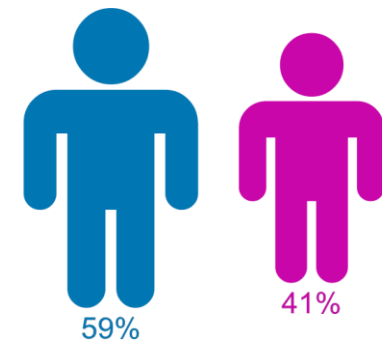


Staff by Area (% of total headcount)

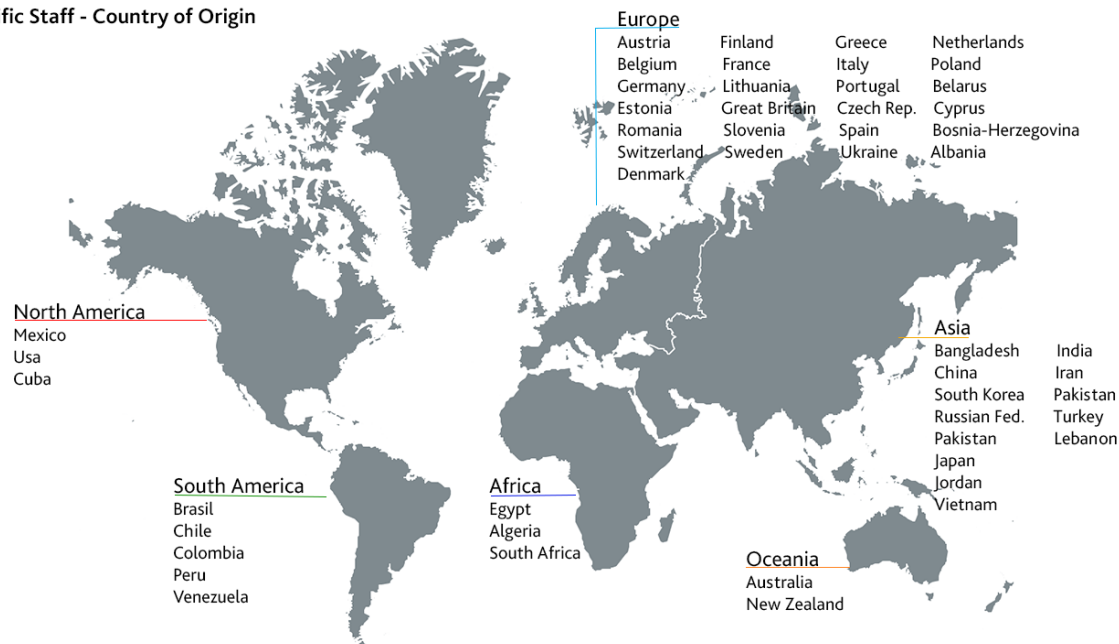


More than **1600** people
 Average age **34 years**
 Scientific + Technical Staff + Ph.D. Students: **81%**
46 Tenure Track positions
 Overall staff from more than **55** countries

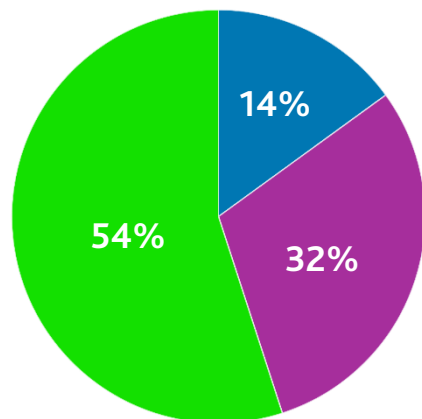
Staff – Gender Ratio



Scientific Staff - Country of Origin

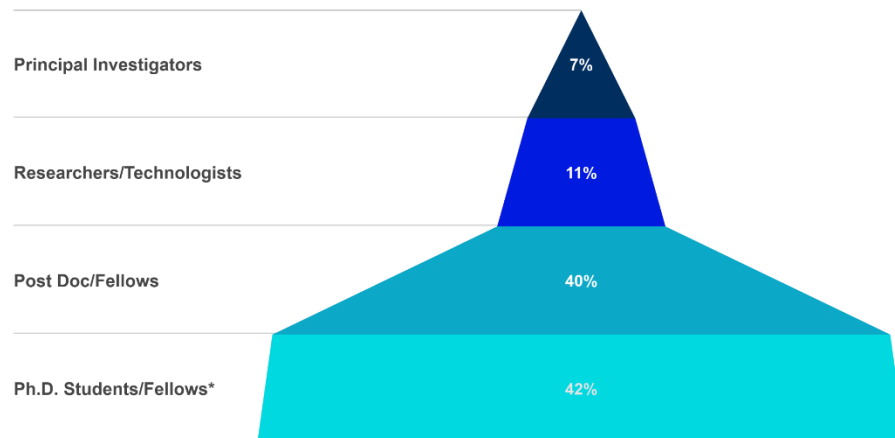


Scientific staff origins



● Italians from abroad ● Foreigners ● Italians

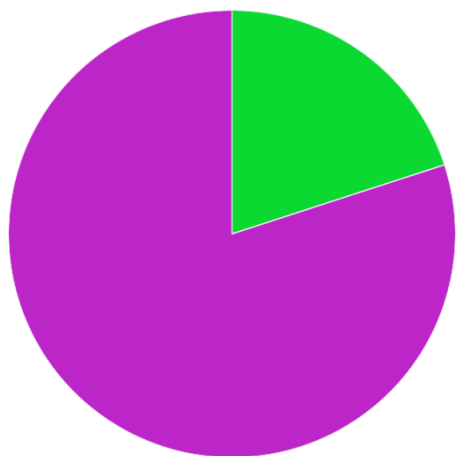
Scientific staff and Ph.D. Students by position



*with Ph.D. degree to obtain

PUBLIC FINANCIAL RESOURCES*

In 2017 public financing received through the Italian Ministry of Economy and Finance amounted to approximately EUR 94,4 million, of which 80% was allocated to scientific and technological activities.



● Administration Activities

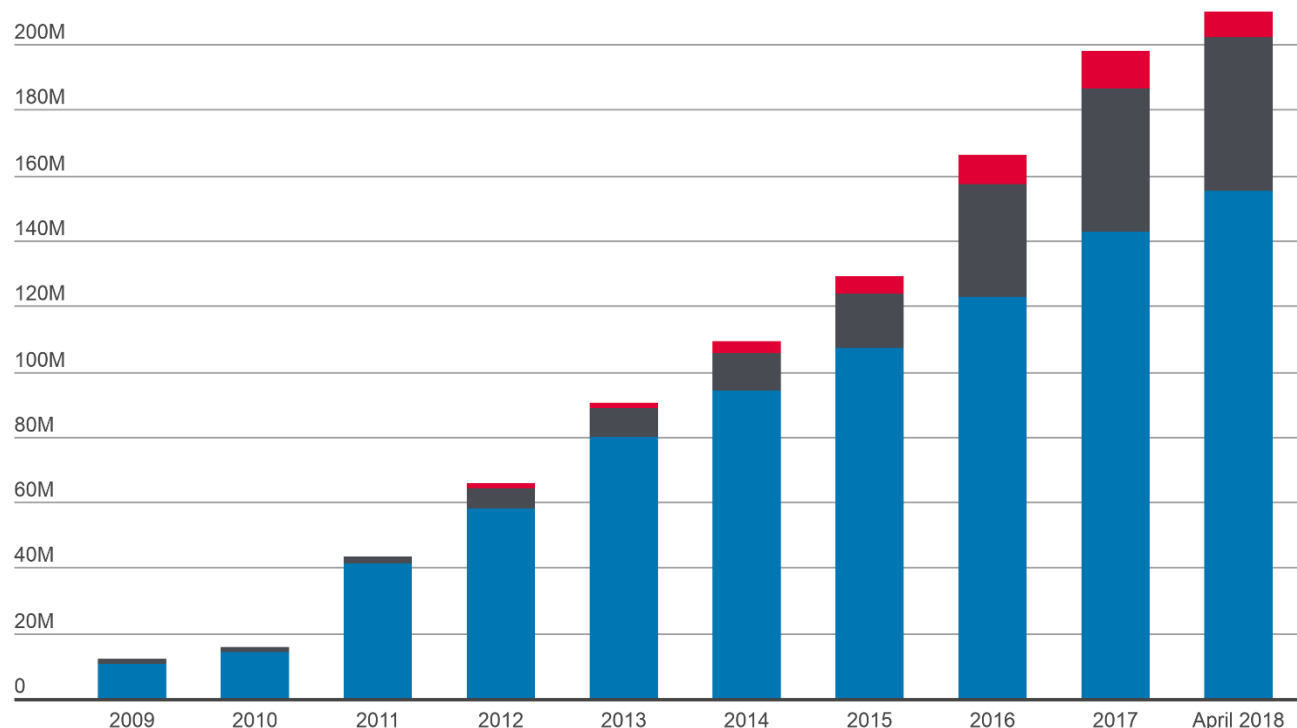
● Scientific and Technologic Activities

*Financial Report (31/12/2017)

INDEPENDENT FINANCIAL RESOURCES

Since 2006 independent financial resources from fund-raising activities have amounted to approximately **213,6 million EUR** broken down as follows:

- Competitive Projects (155,3 milion EUR)
- Commercial Projects (46,8 milion EUR)
- In-kind Projects (11,5 milion EUR)



FUND RAISING: COMPETITIVE GRANT E COMMERCIAL PROJECTS

All Projects since 2006

European Projects	174	Competitive Projects
National Projects	75	
Projects with Foundations	97	
International Projects	18	
Commercial Projects	505	
TOTAL	869	

Active Projects - April 2018

European Projects	56	Competitive Projects
National Projects	32	
Projects with Foundations	34	
International Projects	4	
Commercial Projects	110	
TOTAL	236	

19 GRANTS

Liberato Manna

(Nanochemistry, Genova)
ERC Starting Grant 2009-2013
ERC Consolidator Grant 2014-2019

Antonio Bicchi

(Advanced Robotics, Genova)
ERC Advanced Grant 2012-2017
ERC-Proof of Concept 2017-2018

Cristina Becchio

(Robotics, Brain and Cognitive Sciences, Genova)
ERC Starting Grant 2013-2018
ERC POC Grant 2017 – Under Negotiation

Francesco De Angelis

(Nanostructure, Genova)
ERC Consolidator Grant 2014-2018

Paolo Decuzzi

(Drug Discovery and Development, Genova)
ERC Consolidator 2014-2019

Mario Caironi

(Centro di NanoScience and Technology, Milano)
ERC Starting Grant 2015-2020

Tommaso Fellin

(Neuroscience & Brain Technology, Genova)
ERC Consolidator Grant 2015-2020

Ferruccio Pisanello

(Centro di Biomolecular Nanotechnologies, Lecce)
ERC Starting Grant 2016-2021

Teresa Pellegrino

(Drug Discovery and Development, Genova)
ERC Starting Grant 2016-2019

Valentina Cauda*

(Center for Sustainable Future Technologies, Torino)
ERC Starting Grant 2016-2020

Agnieszka Wykowska

(Social cognition in human-robot interaction, Genova)
ERC Starting Grant 2017-2022

Gianni Ciofani

(Smart Bio-Interfaces, Pisa)
ERC Starting Grant 2017-2022

Iwan Moreels*

(Nanocrystal Photonics, Genova)
ERC Starting Grant 2017-2022

Laura Cancedda

(Local micro-environment and brain development, Genova)
ERC Consolidator Grant 2017-2022

Barbara Caputo

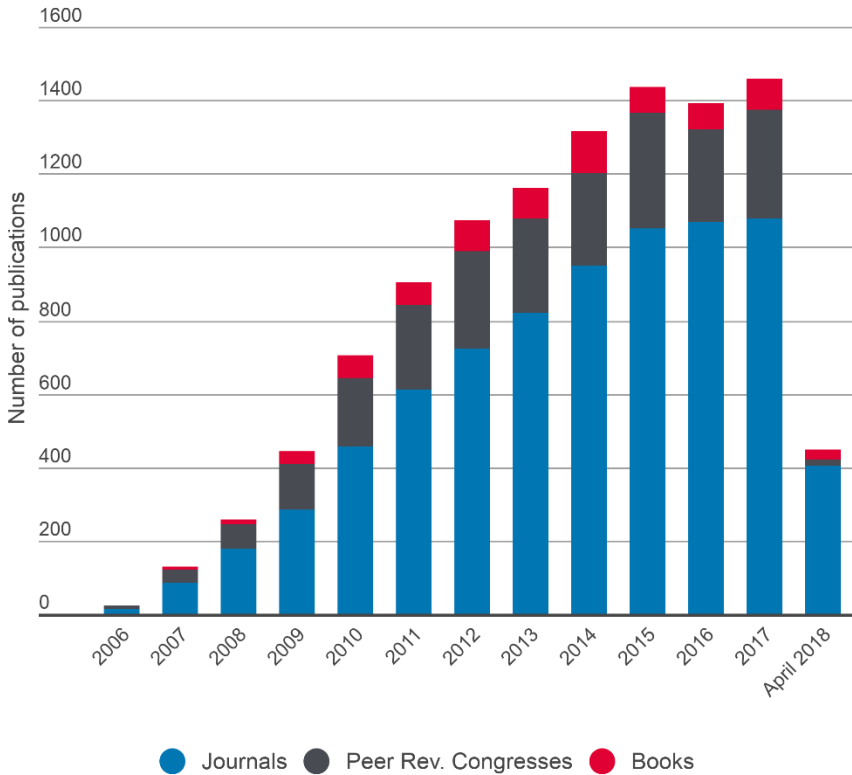
(Visual and Multimodal Applied Learning)
ERC Consolidator Grant 2014

Annamaria Petrozza

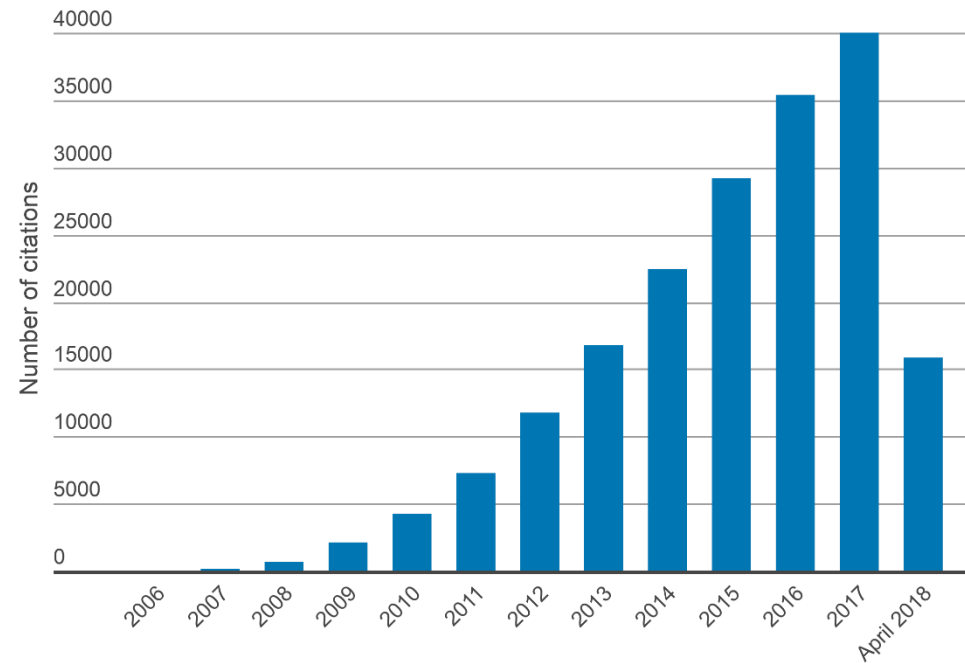
Under Negotiation
ERC Consolidator Grant 2017

*won at IIT and carried out at an IIT partner institute

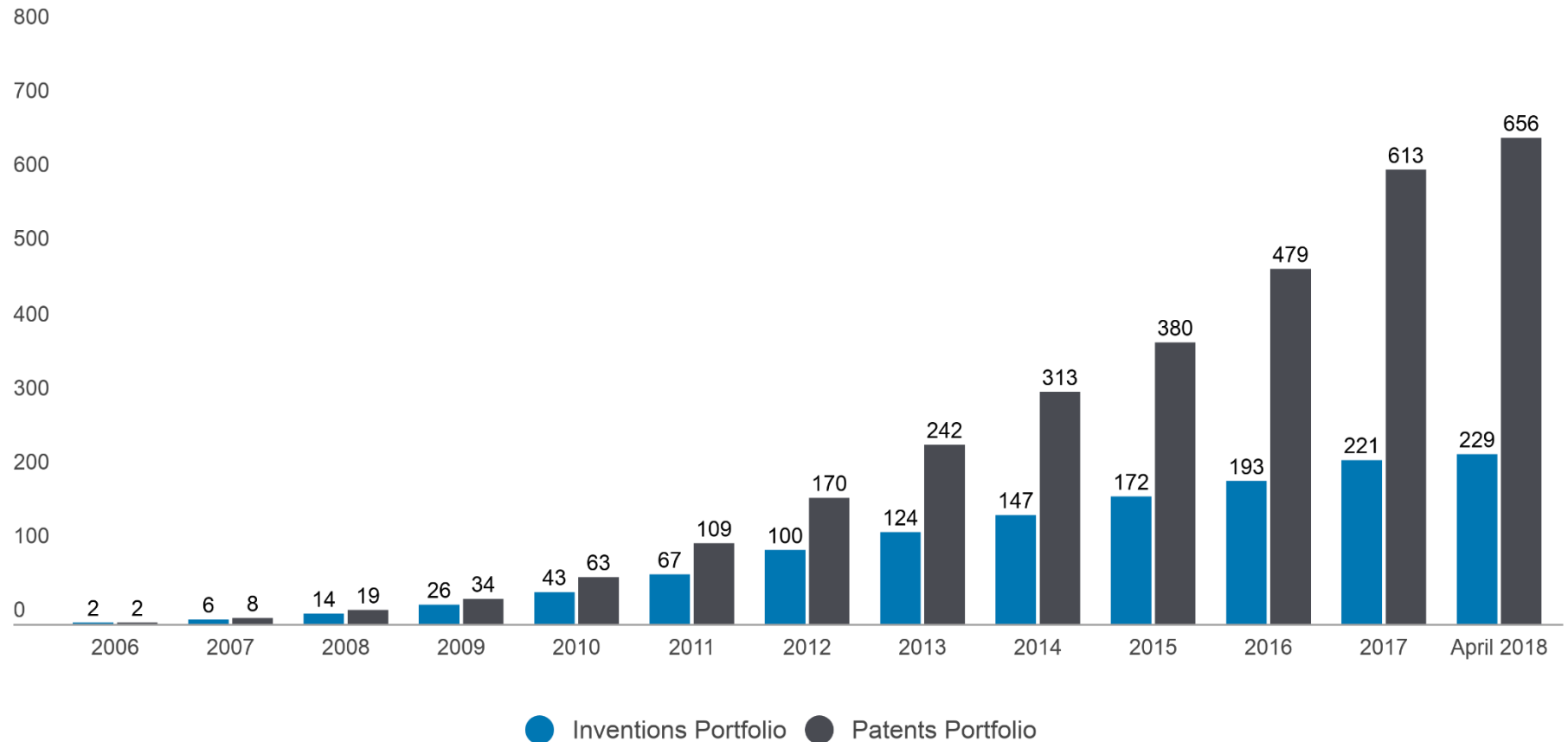
Publications since 2006: **10745**



Citations per years (Scopus – Elsevier B.V.)



*Publications and citations are affected by indexing delay



So far Technology Transfer activity has led to 656 active patents, composed by 367 granted patents and 261 patent applications under review. These patents refer to 229 inventions.



Neokera Pharmaceuticals



IIT has started several Joint Laboratories with major international companies and R&D entities. In these laboratories a scientific and technological road map is developed jointly by IIT scientists and the R&D staff of the partner institutions.



Istituto Giannina Gaslini





ISTITUTO
ITALIANO DI
TECNOLOGIA

Facts and Figures

IIT in Numbers

30th April 2018