About the Future: from Knowledge Transfer to Impact

Fondazione Telethon's perspective



Francesca Pasinelli Rome, Sep. 19th, 2019



Who we are: Mission & Vision



- Fondazione Telethon is a major Italian biomedical charity focused on genetic diseases
- Founded in 1990 at the behest of a group of patients
- Supported through fundraising

OUR MISSION

Advance biomedical research towards the cure of genetic diseases

528 M€ research investment*

1,612 Pls awarded

2,632 research grants

571 genetic diseases studied

>11.000 papers published

OUR VISION

Convert the results of excellent, selected and sustained research into available therapies

12 active clinical trials101 patients treated

1 Therapy on the market



Telethon supports the Italian research system through competitive calls



Projects selected through competitive calls for grants **EXTRAMURAL RESEARCH:**

- **FLEXIBILITY OPPORTUNITIES**
- **TELETHON'S ROLE:** no IP ownership funder and catalyst
- Peer review process by an indipendent scientific committee and several external reviewers ensuring that grants are awarded to the best projects
- ISO9001:2015 quality certified peer review process
- A variety of calls from exploratory projects to multicentre translational projects
- Call for clinical research projects in the neuromuscular field
- Yearly call for proposals attracting hundreds of applicants
- Broad coverage of diseases and approaches
- Foreseen overall commitment around 11 million euros in 2019

The peer review process: max 3y competitive fund allocation

Evaluation of projects by independent reviewers, on the basis of the American NIH model. The process is managed by internal Research Program Managers







Scientific **Evaluation**



Plenary Evaluation Session



Project



Feedback to

Project Submission

Telethon supports its own institutes in Italy



Three Telethon institutes financed by Telethon **INTRAMURAL RESEARCH:**

✓ FOCUS ✓ CRITICAL MASS

TELETHON'S ROLE: IP owner Developer



Telethon Institute of Genetics and Medicine

Location: Pozzuoli, Naples Director: Andrea Ballabio

Group leaders: 16

Staff: 218





Telethon Institute for Gene Therapy

Collaborative venture with: San Raffaele Hospital

Location: Milan

Director: Luigi Naldini Group leaders: 12

Staff: 181

Dulbecco Telethon Institute (virtual Institute)

Current locations: Trento, Milan, Padua, Naples, Genoa, Monza

Group Leaders: 11

The peer review process: 5y non competitive fund allocation



Grant Renewal Proposals



Program Proposals Submission



Scientific **Evaluation**



Site Visit



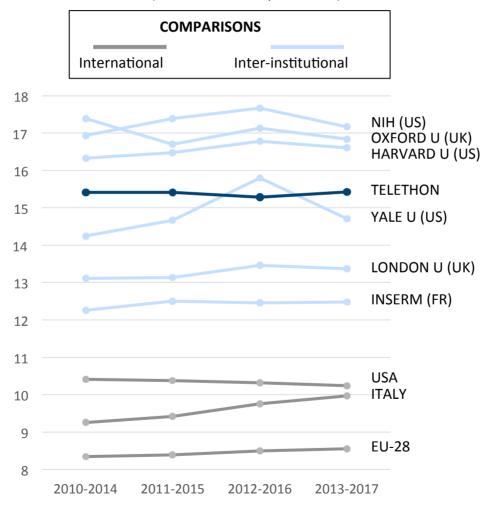
Feedback to researchers

Telethon's publications keep comparing favorably in international comparisons by different indicators



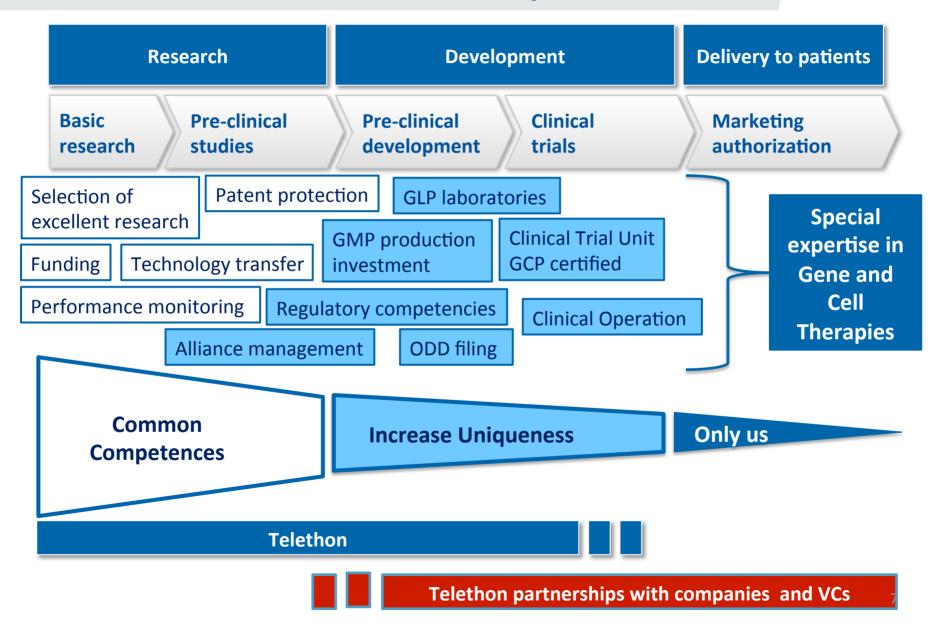
Average number of citations/paper

Original articles and reviews in the five major life sciences categories (95% of all Telethon publications)



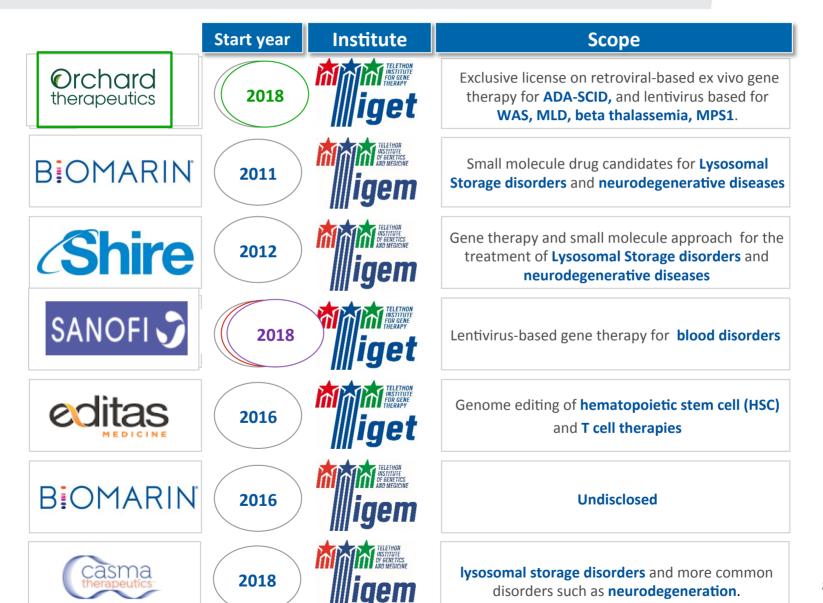
We have unique expertise: Telethon's translational competences





We team with industrial partners: Our Major Alliances





The pillars of Telethon's industrial agreements



All agreements between Telethon and industrial Partners

- > Safeguard **research independence** of Telethon investigators
- > Retain intellectual property rights
- Mandate commitment in developing therapies
- Imply return of any IP and results co-developed, in case the Partner does not pursue therapy development
- > Provide **funding** in support of the research in the collaboration programs
- Supply additional funding through milestones/royalties, in support of further research activities

ITAtech initiative



 ITAtech is the first joint initiative between Cassa depositi e prestiti (CDP) and the European Investment Fund (EIF) supporting «Technology Transfer» through a 200M€ capital fund

Aims:

- 1. Accelerate and support technology transfer of Italian Research results
- 2. Promote and boost the creation of technology transfer professionals with a strong expertise on selected technological sectors
- Key stakeholders: public and private entities active in technology transfer as universities, research centers, tech transfer offices, start ups, early stage investors
- Investment target: highly innovative and technological projects



SOFINOVA

PARTNERS FOR LIFE



45 YEARS OF VENTURE CAPITAL



€2B DEDICATED TO **LIFE SCIENCES**



EUROPE FOCUSED - GLOBAL REACH



FUNDING ENTREPRENEURS OF GAME-CHANGING COMPANIES

Confidential - 3-

Key Sofinnova Telethon Fund terms



- Up to €100M (€93M already raised) fund managed by Sofinnova Partners
- Dedicated to Italy, focused on rare/genetic diseases
- Strategic partnership with Fondazione Telethon
- Experienced dedicated team with complementary skills
- **15-20** investments: 10-15 seeds, 4-5 series A
- Maximum investment size €10M
- Investing...

The Sofinnova Telethon Fund: maximize complementarity





FONDAZIONE



SOFINOVA PARTNERS FOR LIFE

IDENTIFY

- Capillary knowledge of the Italian research system
- Access to the best in class researchers nationwide
- Capability to guide institutes and researchers toward technology transfer

INCUBATE

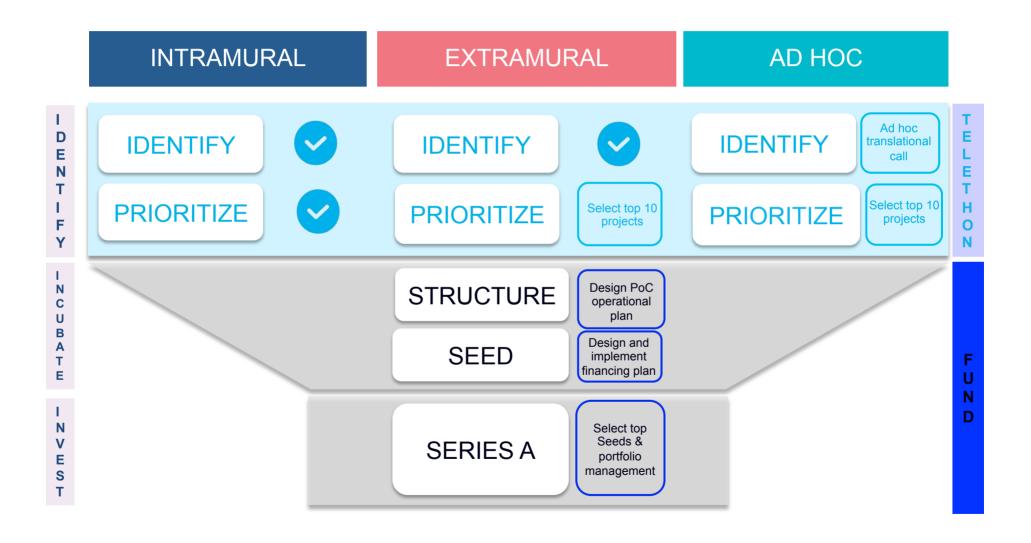
- Sharp focus on early stage research projects with the highest commercial potential
- Bring to Proof of Concept via dedicated seed investments

INVEST

- Invest in the most promising and successful seed projects
- Structure broad international Series A
- Develop management teams with strong domain expertise

The pipeline





Enabling factors for competitive/transformative research



- Excellent fundamental and pre-clinical research
 - Stringent selection system (funding to max. top 20% proposals)
 - Adequate funding
 - Monitoring research progression and results



Identifying projects with translational potential



- Effective translational research
 - Intellectual property protection and technology transfer
 - Management of strategic partnership/alliances
 - Management of clinical trials
 - Management of regulatory affairs
 - Competences in drug development

Thank you!



