



## SCIENTIFIC PROGRAMME

*Monday, 11<sup>th</sup> March 2013*

- 10.00 – 14.00 *Registration and poster setting up*
- 14.15 – 14.30 **Welcome** *Sala 1000*
- 14.30 – 15.00 **Opening address**  
Lucia Monaco (Fondazione Telethon)
- 15.00 – 15.30 **LECTURE**
- An introduction to the International Rare Diseases Research Consortium (IRDiRC)**  
Irene Norstedt (European Commission, Brussels, Belgium) *(Talk 1)*
- 15.30 – 17.00 **PLENARY SESSION 1 – Genes and mechanisms of Intellectual Disabilities: paving the way for potential therapies**  
*Chairpersons:* Han Brunner, Maria Passafaro
- Intellectual Disability: lessons from 500 diagnostic exomes**  
Han Brunner (Nijmegen, The Netherlands) *(Talk 2)*
- The X-linked Intellectual Disability protein TSPAN7 regulates excitatory synapse development and AMPAR trafficking**  
Maria Passafaro (Milan, Italy) *(Talk 3)*
- FMR1 expression and FMRP function as possible targets of pharmacotherapy in the Fragile X Syndrome**  
Giovanni Neri (Rome, Italy) *(Talk 4)*
- Molecular bases and in vitro modeling of Cdk15 dependent infantile neurological disorders**  
Vania Broccoli (Milan, Italy) *(Talk 5)*
- 17.00 – 17.30 *Coffee break*
- 17.30 – 19.00 **POSTER SESSION 1**
- 19.00 – 20.00 **O.Ma.R. Journalism Award** *Sala 1000*  
Organized by the *Osservatorio Malattie Rare*, *Fondazione Telethon* and *Orphanet Italia* with the collaboration of the *National Rare Diseases Centre (CNMR)*.  
<http://www.premiomalattierare.it/>
- 20.00 – 21.00 *Welcome cocktail*
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## Tuesday, 12<sup>th</sup> March 2013

08.30 – 09.00

Registration and poster setting up

09.00 – 10.30 **PLENARY SESSION 2 – Therapeutic strategies for Mendelian disorders** *Sala 1000*

*Chairpersons:* Luis Galiotta, Ennio Ongini (Nicox - Milan, Italy - and Rare Partners)

**Pharmacological strategies to rescue chloride transport in Cystic Fibrosis**

Luis Galiotta (Genoa, Italy)

(Talk 6)

**Exploiting artificial nucleases for targeted transgene integration in human Hematopoietic Stem Cells and induced Pluripotent Stem Cells derived from normal donors and SCID-X1 patients**

Angelo Lombardo (Milan, Italy)

(Talk 7)

**High Content Screening Facility at TIGEM: pharmacological approaches to treat rare genetic diseases**

Diego Medina (Naples, Italy)

(Talk 8)

**A computational strategy to discover pharmacological chaperones with therapeutic potential for Retinitis Pigmentosa**

Francesca Fanelli (Modena, Italy)

(Talk 9)

10.30 – 11.00

Coffee break

11.00 – 12.30 **POSTER SESSION 2**

12.30 – 13.00 **PICTURE OF TELETHON SCIENTISTS**

taken by Filippo Sbalchiero

gathering point: registration desk

13.00 – 14.00

Buffet Lunch

14.00 – 15.00 **KEYNOTE LECTURE**

*Sala 1000*

**TIGEM goes translational**

Andrea Ballabio (Naples, Italy)

(Talk 10)

**Imagining new therapies for patients with Rare Diseases: Shire HGT and TIGEM translate the future**

Arthur Tzianabos (Shire - Lexington, MA, USA)

(Talk 11)

15.00 – 16.00 **PLENARY SESSION 3 – Advances in clinical trials**

*Chairpersons:* Robertson Parkman (Los Angeles, CA, USA), Luigi Naldini (Milan, Italy)

**The development of Givinostat for the treatment of Duchenne Muscular Dystrophy: from the animal to the clinic**

Paolo Bettica (Italfarmaco – Cinisello Balsamo, Italy),

Eugenio Mercuri (Rome, Italy)

(Talk 12)

**Phase I/II clinical trial of Hematopoietic Stem Cell gene therapy for the treatment of Metachromatic Leukodystrophy**

Alessandra Biffi (Milan, Italy)

(Talk 13)

**Clinical trial of Hematopoietic Stem Cell gene therapy for Wiskott-Aldrich Syndrome**

Alessandro Aiuti (Milan, Italy)

(Talk 14)

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16.00 – 17.00 **ROUND TABLE – Navigating the Valley of Death**  
**An interactive session engaging all Telethon scientists in tackling the hurdles of translating laboratory research to the clinic**  
*Moderators:* Robertson Parkman (Los Angeles, CA, USA),  
Helen Heslop (Houston, TX, USA)  
*Speakers:* Luigi Naldini (Milan), Alberto Auricchio (Naples), Grazia Valsecchi (University of Milano-Bicocca, Milan), Alessandro Aiuti (Milan), Paolo Bettica (Italfarmaco – Cinisello Balsamo)

17.00 – 17.30 *Coffee break*

17.30 – 19.00 **POSTER SESSION 3**

19.00 – 20.00 **SPECIAL EVENT** *Sala 300*  
***The Executive Director of the American Society for Cell Biology meets young investigators***  
Stefano Bertuzzi (ASCB - Bethesda, MD, USA)  
*Wine and Cheese*

### ***Wednesday, 13<sup>th</sup> March 2013***

09.00 – 10.30 **PARALLEL SESSIONS A-B**

**A- Cardiomyopathy - failure and success** *Sala 1000*

*Chairpersons:* Daniel Garry, Silvia Priori

**Emerging therapies for DMD Cardiomyopathy**  
Daniel Garry (Minneapolis, MN, USA) *(Talk 15)*

**Channelopathies: moving toward gene therapy**  
Silvia Priori (Pavia, Italy) *(Talk 16)*

**Melusin gene therapy: an innovative approach to prevent Familial Cardiomyopathies**  
Guido Tarone (Torino, Italy) *(Talk 17)*

**Inherited Cardiomyopathies: from phenotype-based to genetic-based nosology**  
Eloisa Arbustini (Pavia, Italy) *(Talk 18)*

**B- Decoding an engineering marvel: insights from genetic Renal Diseases**

*Chairpersons:* Gregory Germino, Antonella De Matteis *Sala 300*

**On the edge of glory? Polycystic Kidney Disease research as a model for moving from bench to bedside**  
Gregory Germino (Bethesda, MD, USA) *(Talk 19)*

**Uromodulin and chronic diseases of the kidney**  
Luca Rampoldi (Milan, Italy) *(Talk 20)*

**Cell biology and pharmacology of Lowe Syndrome**  
Antonella De Matteis (Naples, Italy) *(Talk 21)*

**CLC-5, an endosomal chloride – proton exchanger mutated in Dent's Disease: a biophysical perspective**  
Michael Pusch (Genoa, Italy) *(Talk 22)*

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10.30 – 11.00

Coffee break

11.00 – 13.00 **PARALLEL SESSIONS C-D**

**C- Trial readiness in Neuromuscular Diseases**

*Sala 1000*

*Chairpersons:* Jeffrey Chamberlain, Rossella Tupler

**Therapeutic potential of AAV-microdystrophin vectors for gene therapy of Duchenne Muscular Dystrophy**

Jeffrey Chamberlain (Seattle, WA, USA) *(Talk 23)*

**Facioscapulohumeral Muscular Dystrophy: a walk on the dark side of the (epi)genome**

Davide Gabellini (Milan, Italy) *(Talk 24)*

**From the bench to the clinic: what we have learnt from the Italian National Registry for Facioscapulohumeral Muscular Dystrophy**

Rossella Tupler (Modena, Italy) *(Talk 25)*

**Trial readiness in Peripheral Neuropathies: the Charcot-Marie-Tooth Disease pathway**

Davide Pareyson (Milan, Italy) *(Talk 26)*

**Trial readiness in Peripheral Neuropathies: developing a unifying treatment strategy**

Carla Taveggia (Milan, Italy) *(Talk 27)*

**D- Blood Disorders: from genetics to genetic therapies**

*Sala 300*

*Chairpersons:* Punam Malik, Giuliana Ferrari

**Mutations in the 5'UTR of ANKRD26 result in a "new" form of Inherited Thrombocytopenia that predisposes to Leukemia and is characterized by the presence in platelets and megakaryocytes of a "new" cell structure**

Carlo Balduini (Pavia, Italy) *(Talk 28)*

**Hepcidin at the crossroad between Hemochromatosis and genetic Iron Deficiency**

Clara Camaschella (Milan, Italy) *(Talk 29)*

**RNA-based therapeutic approaches for Blood Coagulation Factor Deficiencies caused by splicing mutations**

Mirko Pinotti (Ferrara, Italy) *(Talk 30)*

**Gene therapy for non-lethal disorders: the paradigm of Beta-Thalassemia**

Giuliana Ferrari (Milan, Italy) *(Talk 31)*

**Genetic therapy for Hemoglobinopathies: from the bench to the bedside**

Punam Malik (Cincinnati, OH, USA) *(Talk 32)*

13.00 – 13.30 **LATE BREAKING NEWS**

**A highly secreted sulfamidase engineered to cross the blood-brain barrier corrects brain lesion of mice with mucopolysaccharidoses type IIIA**

Alessandro Fraldi (Naples, Italy)

**Acylated and unacylated ghrelin impair skeletal muscle atrophy in mice**

Andrea Graziani (Novara, Italy)

**Molecular function of Ubiad1, a gene associated to Schnyder Crystalline Corneal Dystrophy (SCCD)**

Vera Mugoni (Torino, Italy)

13.30 – 14.00 **POSTER PRIZE AWARD AND CLOSING REMARKS**

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