The Future of Genetics in Medicine and beyond





UNDER THE AUSPICES OF:



Organized by

Department of Medical Sciences Transplant Genetics University of Turin

President of the Meeting

Antonio Amoroso

Department of Medical Sciences Transplant Genetics University of Turin

Scientific Board Coordinator Fulvia Pedani

TURIN (Italy)

June 22nd - 23rd, 2017

Palazzo Carignano, Piazza Carlo Alberto



FONDAZIONE INTERNAZIONALE MENARINI

PROGRAMME

12.00 p.m. Registration and Welcome cocktail

02.00 p.m. Meeting presentation

Antonio Amoroso (Turin, IT)

02.30 p.m. Opening Lecture:

The future of genetic medicine: medical and ethical considerations

Stylianos E. Äntonarakis (Geneve, CH)

Session I: The Genomic Era

Chairpersons: *Maurizio Genuardi* (Rome, IT), *Sandra D'Alfonso* (Novara, IT)

03.30 p.m. Genomic Medicine

Orsetta Zuffardi (Pavia, IT)

04.00 p.m. Personalised Medicine Paolo Gasparini (Trieste, IT)

04.30 p.m. Epigenetics and Epigenomics

Salvatore Oliviero (Turin, IT)

05.00 p.m. The new world of RNAs

Stefano Gustincich (Genoa, IT)

05.30 p.m. Coffee Break

Session 2: Genomic approaches to the diagnosis of diseases Chairpersons: *Alfredo Brusco* (Turin, IT), *Giovanni Battista Ferrero* (Turin, IT)

06.00 p.m. New frontiers for the diagnosis of genetic diseases

Marco Tartaglia (Rome, IT)

How genomic approaches will change the diagnosis of tumours 06.30 p.m.

Giorgio Scagliotti (Turin, IT)

07.00 p.m. Genomic analyses for susceptibility to complex diseases

Francesco Cucca (Sassari, IT)

Will we have all the information of our genome 07.30 p.m.

on our health card?

Edoardo Boncinelli (Milan, IT)

08.00 p.m. Concluding remarks

Session 3: How genomics will change the prevention of diseases Chairpersons: Barbara Pasini (Turin, IT), Antonio Amoroso (Turin, IT)

08.30 a.m. NIPT: Non invasive prenatal testing

on fetal DNA circulating in maternal blood

Joris Vermeesch (Leuven, BE)

09.00 a.m. Fast-track WES:

Can it change prenatal and neonatal care?

Gijs Santen (Leiden, NL)

09.30 a.m. Genomics screening for genetic diseases *Lynn B. Jorde* (Salt Lake City, USA)

10.00 a.m. Genomic and epigenomic variability in complex diseases

Giuseppe Matullo (Turin, IT) 10.30 a.m. Coffee Break

Session 4: New scenarios of genomic medicine Chairpersons: Franco Veglio (Turin, IT), Roberto Ravazzolo (Genoa, IT)

Personalised cancer therapy *Vincenzo Corbo* (Verona, IT) 11.00 a.m.

11.30 a.m. How the genomics era will change the diagnosis

and treatment of the neurological diseases Christian Gilissen (Nijmegen, NL)

12.00 p.m. How the genomics era will change the diagnosis

and treatment of heart diseases

Mauro Giacca (Trieste, IT)

How the genomics era will change the diagnosis

and treatment of kidney diseases

Ali Gharavi (New York, ÚSA)

01.00 p.m. Lunch

Session 5: Genomics in Therapy

Chairpersons: Fulvia Pedani (Turin, IT), Mauro Giulio Papotti (Turin, IT)

02.00 p.m. Medical application of gene therapy:

the example of the diseases of the eye

Alberto Auricchio (Naples, IT)

02.30 p.m. Introduction to Pharmacogenomics

Giuseppe Novelli (Rome, ĬT)

The search for new molecules 03.00 p.m. for the treatment of genetic diseases

Luis Galietta (Naples, IT)

03.30 p.m. How neurogenomics will drive new therapeutic approaches Laura Cancedda (Genoa, IT)

04.00 p.m. Coffee Break

Session 6: Genome editing and gene therapy

Chairman: *Mauro Giacca* (Trieste, IT), *Guido Forni* (Turin, IT)

04.30 p.m. Genome Editing for human diseases

Angelo Lombardo (Milan, IT)

What will synthetic biology and genome editing

really mean for generations to come? *Mario Capecchi* (Salt Lake City , USA)

Ethical and philosophical issues 05.30 p.m.

on genome modification in humans

Giovanni Boniolo (Ferrara, IT)

06.00 p.m. Concluding remarks

ORGANIZING SECRETARIAT AND PROVIDER

Italian CME Accreditation 10,5 CME Credits.

European CME Accreditation The event has been accredited by the EACCME for TBC European CME Credits.

Registrations

Registration is free of charge. Please confirm your participation to the Organizing Secretariat: Phone: +39 011 715210 / 712393 - Fax: + 39 011 726115

E-mail: info@contatto.tv within June 21st, 2017.

CONTATTO & ARCHIMEDICA