

“ This Symposium will deal broadly with new technologies, such as next generation DNA sequencing and innovations in structural biology methods, that promise to reveal hitherto unknown molecular targets useful for the design of new drugs and other therapeutic agents.

Symposium sessions will address the identification of targets that are applicable to strategies for tissue regeneration and organ transplantation. Regulatory pathways that may influence the treatment of heart disorders, cancer, neurologic diseases, and inflammation will be illuminated.

An overriding theme in all of the talks will be the great value of systems biology in integrating the huge amount of human genotypic and phenotypic data now emerging rapidly, which promises not only to aid in filling the "therapeutic pipeline", but also to offer important new insights into the causes of the major chronic diseases. Speakers will include current Ri.MED Fellows and their mentors, as well as keynote speakers from Pittsburgh and from Italy.

The opportunities for collaboration between industry-based and academic researchers will be highlighted.”

Arthur Samuel Levine
Scientific Director - Ri.MED

Research and development in the Mediterranean basin

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Ri.MED
Symposium

Fifth Annual Ri.MED
Scientific Symposium

Priming the therapeutic
pipeline: new strategies
for drug discovery

Monday, 24

October 2011

Fondazione
Banco di Sicilia
Villa Zito
Viale della Libertà 52
Palermo, Italy

Fifth Annual Ri.MED Scientific Symposium

Fondazione
Ri.MED

Program

Fifth Annual Ri.MED Symposium

Priming the therapeutic pipeline:
new strategies for drug discovery

AM	8.30	Conference registration
AM	8.45	Paolo Pucci di Benisichi, Bruno Gridelli: Welcome and Introduction
AM	8.55	Arthur S. Levine: Introduction to Symposium Theme
AM	9.00	D. Lansing Taylor: "The Role of Systems Biology in Drug Discovery"
AM	9.45	Claudia Coronello: "CoMir: A New Efficient Tool for Predicting Multiple miRNA Targets" Panayiotis (Takis) Benos: "The Importance of Being microRNA: From Disease Markers and Gene Network Regulators to Therapeutic Agents"
AM	10.30	Break
AM	10.45	Antonella Cusimano: "Non-Canonical Wnt Signaling during Liver Regeneration" Satdarshan P.S. (Paul) Monga: "Personalized Medicine in Hepatocellular Carcinoma: A Wnt/Beta-Catenin Perspective"
AM	11.30	Giovanna Frazziano: "Nox-Dependent Mechanisms of Cardiomyocyte Dysfunction in a Model of Pressure Overload"
		Patrick J. Pagano: "Janus Faces of Nox, Glimpses Past and Future"
PM	12.15	Nancy E. Davidson: "Tailoring Cancer Therapy in the Molecular Age"

PM 1.00 Lunch

PM 2.00

Roberto Di Maio:
"Neuronal Oxidative Injury in the Development of Epileptic Disease: *In Vitro* and *In Vivo* Studies for Novel Therapeutic Approaches"

J. Timothy Greenamyre:
"Neuronal Oxidative Injury in Parkinson's Disease: *In Vitro* and *In Vivo* Studies"

PM 2.45

Jeremy M. Berg:
"The Shape of Things to Come: Structural Biology and Drug Development"

PM 3.30

Break

PM 3.45

Antonio D'Amore and William R. Wagner:
"Scaffold Design To Prime Soft Tissue Regeneration and Replacement"

PM 4.30

Alberto Mantovani:
"Regulatory Pathways of Innate Immunity and Inflammation"

PM 5.15

Valentina Di Caro:
"Dendritic Cell and B Regulatory Cell Crosstalk: Understanding a New Regulatory Network To Develop Novel Immunotherapy"

Pier Giulio Conaldi:
"Immunotherapeutic Strategies in the Management of Transplantation-Related Viral Infections"

PM 6.00

Arthur S. Levine:
Symposium Closure

The Ri.MED Foundation was set up by Decree of the Italian Presidency of the Council of Ministers (DPCM) dated March 20, 2006, and its founding members are the Italian Presidency of the Council of Ministers, the Presidency of the Region of Sicily, the Italian National Research Council (CNR), the University of Pittsburgh and UPMC (University of Pittsburgh Medical Center).

The purpose of the Palermo-based Foundation is to promote, support and carry out, either directly or indirectly, research programs in the field of biotechnology favoring the expeditious transfer of research results in the field of biomedicine and clinical practice.

Ri.MED will pursue its goals by:

- Improving scientific culture in the field of biotechnologies for collective progress and well-being.
- Training scientific, technical and administrative staff with specific competencies.
- Setting up and managing biotechnology research laboratories.

