

Pavia, 22-23 Febbraio 2011
Aula Arturo Falaschi, IGM
Via Ferrata 1, Pavia

Convegno Congiunto

Dipartimento di Genetica e Microbiologia

Istituto di Genetica Molecolare

PROGRAMMA

22 FEBBRAIO 2011

- 8:45 – 9:00 Apertura dei lavori:
Prof. Alessandra Albertini, Direttore del Dipartimento di Genetica e Microbiologia
Prof. Giuseppe Biamonti, Direttore dell'Istituto di Genetica Molecolare del CNR
- 9.00 - 9.30 **Invited speaker – Prof. Giorgio Stassi**
Cancer Stem Cells: Molecular Targets and Therapeutic Implications
IRCCS Maugeri, Pavia & Dipartimento di Discipline Chirurgiche e Oncologiche
Università degli Studi di Palermo
- 9.30 - 9.45 **Gastrointestinal tumors: cancer-related genes associated with tumor progression and with disease predisposition**
Molinaro V, Garbin G, D'Agostino V, Molatore S, Zuccolo E, Marabelli M, Bione S, Bonanni B, Albertini A, Bignami M, Ranzani GN
SPEAKER: Valeria Molinaro
- 9:45 - 10:00 **Autofluorescence based optical biopsy: diagnostic potential of naturally-occurring porphyrins in tumour bearing subjects**
Croce AC, De Simone U, Santamaria G, Lucchini F, Freitas I, Bottiroli G
SPEAKER: Anna Cleta Croce
- 10:00 – 10:15 **Shc3 modulates glucose import and metabolism in high grade gliomas**
Azzalin A, Manai F, Magrassi L
SPEAKER: Alberto Azzalin
- 10:15 – 10:30 **Establishment of novel anticancer in vitro protocols for the treatment of human glial tumor**
Barbieri G, Palumbo S, Calderaro F, Allavena G, Durando F, Comincini S
SPEAKER: Sergio Comincini
- 10:45 – 11:00 **Pathways involved in neoplastic transformation of human mesenchymal cells**
Belgiovine C, Chiodi I, Mondello C
SPEAKER: Cristina Belgiovine
- 11:00 – 11:20 COFFEE BREAK**
- 11:20 – 11:35 **Post-transcriptional regulation of epithelia to mesenchymal transition (EMT): lessons from the Ron proto-oncogene**
Ghigna C, Valacca C, Bonomi S, Soza S, Gallo S, Apicella M, Buratti E, Baralle FE, Sette C, Biamonti G
SPEAKER: Serena Bonomi
- 11:35 – 11:50 **Association of collagen VI alpha3 chain to monocytes-derived macrophage podosomes**
Curci R, Pellegrini C, Zamparelli A, Sabatelli P, Gualandi F, Martoni E, Merlini L, Squarzone S, Ferlini A, Maraldi NM
SPEAKER: Rosa Curci
- 11:50 – 12:05 **Barrier-to-autointegration factors nuclear localization is a common features in laminopathies with defective prelamin A processing**
Capanni C, Cenni V, Columbaro M, Squarzone S, Lattanzi G
SPEAKER: Cristina Capanni
- 12:05 – 12:20 **Evidences for a correlation between transcription of long non coding Sat III RNAs and defects of chromosome segregation in heat shocked cells**
Giordano M, Zanga D, Mazzini G, Mondello C, Biggiogera M, Biamonti G
SPEAKER: Manuela Giordano

- 12:20 – 12:35 **Defining the Sequence Elements of the Human LambB2-ori Replicator Involved in Origin Firing and Prevention of Gene Silencing**
Cubells M, Mura M, Arrigoni L, Zocco M, Schewe M, Leva V, Falaschi A, Riva S, Biamonti G, Peverali FA
SPEAKER: Laura Arrigoni
- 13:00 – 14:00 **BUFFET**
- 14:30 – 15:00 **Invited speaker – Dr. Dana Brnzei**
Regulatory pathways and molecular mechanisms promoting recombination-mediated damage bypass of lesions
Fondazione IFOM, Istituto FIRC di Oncologia Molecolare, IFOM-IEO campus, Milan
- 15:00 – 15:15 **The Role of DNA Polymerase Lambda in Oxidative DNA Damage Tolerance**
Crespan E, Amoroso A, Zucca E, Concia L, Cella R, Maga G
SPEAKER: Emmanuele Crespan
- 15:15 – 15:30 **DNA ligase I deficient cells as model to study the replication stress-induced DNA damage response**
Leva V, Galeone C, Citrolo C, Biamonti G and Montecucco A
SPEAKER: Valentina Leva
- 15:30 – 15:45 **Multiple roles of the cell cycle inhibitor p21CDKN1A in the DNA damage response: regulation of p300 activity and interaction with NER factors**
Tillhon M, Scovassi AI, Dutto I, Cazzalini O, Sommatitis S, Stivala LA, Prosperi E
SPEAKER: Micol Tillhon
- 15:45 – 16:00 **Reduced amounts of collagen type VI reveal extracellular matrix defects in trichothiodystrophy and a new role of TFIIH in transcription derepression**
Orioli D, Nardo T, Mura M, Botta E, Compe E, Egly JM, Peverali FA, Stefanini M
SPEAKER: Donata Orioli
- 16:10 – 16:15 **Functional characterization of temperature-sensitive XPD mutations in trichothiodystrophy patients with fever-dependent worsening of clinical features**
Lanzafame M, Botta E, Nardo T, Orioli D, Teson M, Zambruno G, Lehmann AR, Stefanini M
SPEAKER: Manuela Lanzafame
- 16:15 – 16:35 **COFFEE BREAK**
- 16:35 – 16:50 **Tracing human and animal ancient dispersals: the mitochondrial genome perspective**
Olivieri A, Hooshir Kashani B, Perego UA, Carossa V, Pala M, Gandini F, Battaglia V, Grugni V, Al-Zahery N, Semino O, Achilli A, Torroni A
SPEAKER: Anna Olivieri
- 16:50 – 17:10 **Genetic origin of Italian cattle breeds: a survey of both maternal and paternal lines of descent**
Bonfiglio S, Achilli A, Olivieri A, De Gaetano A, Grugni V, Battaglia V, Negrini R, Colli L, Liotta L, Semino O, Ajmone Marsan P, Torroni A, Ferretti L
SPEAKER: Silvia Bonfiglio
- 17:10 – 17:30 **Identifying genetic traces of human past migrations**
Grugni V, Al-Zahery N, Battaglia V, Olivieri A, Carossa V, Hooshir Kashani B, Parolo S, Achilli A, Torroni A, Santachiara-Benerecetti AS, Semino O
SPEAKER: Viola Grugni

- 17:30 – 17:45 **Telomeres and centromeres in carcinogenesis and evolution**
Nergadze SG, Khoriauli L, Smirnova A, Piras F, Santagostino M, Vidale P, Vitelli V, Bertoni L, Giulotto E
SPEAKER: Marco Santagostino
- 17:45 – 18:00 **Organisation of repetitive DNA sequences in the horse genome**
Vella F, Nergadze SG, Belloni E, Bensi M, Giulotto E, Raimondi E
SPEAKER: Francesco Vella

23 FEBBRAIO 2011

- 9:30 – 10:00 **Invited speaker – Dr. Patrizia Comoli**
Cell Therapy of viral infections and cancer: experience of the pediatric hematology/oncology unit at the Fondazione IRCCS Policlinico San Matteo
Comoli P, Maccario R, Zecca M
Oncoematologia Pediatrica e Laboratori Sperimentali di Ricerca, Fondazione Policlinico S. Matteo, Pavia.
- 10:00 – 10:15 **Identifying genetic factors predisposing to cerebrovascular disorders in the Italian population**
Parolo S, Lisa A, Cavalli-Sforza LL, Parati EA, Barlera S, Di Blasio AM, Zei G, Boncoraglio GB, Bione S
SPEAKER: Silvia Parolo
- 10:15 – 10:30 **Functional immunogenetics: from basic mechanisms to clinical implications**
Boiocchi C, Maggioli E, Cereda C, Ricevuti G, Cuccia M
SPEAKER: Chiara Boiocchi
- 10:30 – 10:45 **Senile Cardiac amyloidosis in a mouse model**
Azar G, Lionetti V, L' Abbate A, Marchese L, Mazzini G, Obici L, Minuttillo P, Magrini U, Bellotti V, Merlini G, Tribioli C
SPEAKER: Grace Azar
- 10:45 – 11:00 **Simplicity underlies complexity: is there a common mechanism for complex diseases?**
Damiani G
SPEAKER: Giuseppe Damiani
- 11:00 – 11:20 **COFFEE BREAK**
- 11:20 – 11:35 **Mechanisms of action and resistance of new antitubercular drugs**
Buroni S, Degiacomi G, Incandela ML, La Rosa V, Molteni E, Ortiz Canseco J, Ribeiro AL, Pasca MR, De Rossi E, Riccardi G.
SPEAKER: Silvia Buroni
- 11:35 – 11:50 **Deciphering the role of RND efflux transporters in *Burkholderia cenocepacia***
Bazzini S, Buroni S, Udine C, Pasca MR, Riccardi G
SPEAKER: Silvia Bazzini
- 11:50 – 12:05 **Gram-positive DNA polymerase III C: cloning, purification and analysis of specific inhibitors**
Lossani A, Torti A, Savi L, Brown NC, George E. Wright GE, Foher F
SPEAKER: Andrea Lossani
- 12:05 – 12:20 **Identification of novel viral and host targets as innovative approach among current antiviral strategies**
Samuele A, Bavagnoli L, Garbelli A, Kataropoulou A, Maga G
SPEAKER: Alberta Samuele

- 12:20 – 12:35 **Analysis of the effects of anticancer drugs: A look to apoptosis but also to autophagy**
Giansanti V, Donà F, Scovassi AI
SPEAKER: Vincenzo Giansanti
- 12:35 – 12:50 **Ongoing projects in the Structural Biology Laboratory**
Mattevi A, Binda C & Structural Biology Group
SPEAKER: Marcello Tortorici
- 13:00-14:00 BUFFET**
- 14.30-15.00 **Invited speaker – Prof. Giuliano Gasperi**
Sex related differential expression in the Medfly, *Ceratitis capitata* embryos
Gabrieli P, Gomulski LM, Scolari F, Siciliano P, Malacrida AR, Gasperi G
Dipartimento di Biologia Animale, Università di Pavia
- 15.00-15.15 **Gamma-PGA, a versatile natural polymer produced by domestic strains of *B. subtilis***
Scoffone VC, Albertini AM, Calvio C, Ferrari E, Galizzi A
SPEAKER: Viola Camilla Scoffone
- 15:15 – 15:30 **Accumulation of protein of interest along *N. tabacum* secretory pathway**
Maggio C, Rinaldi S, Concia L, Pantaleoni L, Doria E, Longoni P, Cella R
SPEAKER: Caterina Maggio
- 15:30 – 15:45 **A defective ABC transporter of the MRP family, responsible of the lpa 280-10 mutation in common bean, affects the regulation of phytic acid pathway, reduces myo-inositol and alters ABA sensitivity**
Doria E, Campion B, Pilu R, Sparvoli F, Nielsen E
SPEAKER: Enrico Doria
- 15:45 – 16:00 **DNA damage and repair/antioxidant mechanisms in plants: tools for improving crop productivity**
Carbonera D, Balestrazzi A, Macovei A, Donà M, Faè M
SPEAKER: Anca Macovei
- 16:00 – 16:15 **CABGen: new bioinformatic resources at IGM-CNR**
Bione S, Sacchi G, Cavalli-Sforza LL, Fiorani O, Zei G, Parolo S, Biamonti G, Lisa A
SPEAKER: Antonella Lisa
- 16:15 -16:30 **A cell-based optical biosensor exploiting silicon micromachined photonic crystals: a new tool for monitoring cellular activities**
Merlo S, Barillaro G, Carpignano F, Surdo S, Leva V, Montecucco A, Mazzini G
SPEAKER: Giuliano Mazzini
- 16:30 Saluto dei Direttori DGM e IGM e chiusura lavori