

XXV Italian Meeting
“ADP-RIBOSYLATION REACTIONS”
IGM - CNR, Pavia

Friday, May 31

12.00-14.00 Registration

14.00 Opening

NAD

Chairperson Fabio Malavasi

14.30 Phylogenomic analysis provides a conceptual framework for defining the ADP-ribosyl cyclase superfamily

E. Ferrero, N. Lo Buono, F. Malavasi

Immunogenetics Lab, Dept. of Medical Sciences, University of Torino, Italy

14.50 A CD38/CD203a/CD73 ectoenzymatic axis independent from CD39 governs in human T lymphocytes a novel adenosinergic loop

A.L. Horenstein^{1,2}, A. Chillemi¹, F. Morandi³, G. Zaccarello¹, V. Quarona¹, A. Zito¹, F. Malavasi^{1,2}

¹Laboratory of Immunogenetics, Department of Medical Sciences and ²Centro di Ricerca in Medicina Sperimentale (CeRMS), University of Torino Medical School, Italy; ³Laboratory of Oncology, Istituto G. Gaslini, Genova, Italy

Mono-ADP-ribosyltransferases

Chairperson Mariella Di Girolamo

15.10 ARTD12/PARP12 is a mono-ADP-ribosyltransferase that acts on the Golgi complex

G. Grimaldi¹, G. Catara¹, C. Valente¹, G. Turacchio¹, P. Pucci^{2,3}, D. Corda¹

¹Institute of Protein Biochemistry CNR, Naples; ²Department of Structural and Functional Biology and CEIGE-Biotecnologie Avanzate, Naples; ³Federico II University of Naples, Italy

15.30 Role of ARTD15-mediated karyopherin β 1 mono-ADP-ribosylation in nucleocytoplasmic trafficking

E.S. Scarpa, S. Di Paola, G. Fabrizio, M. Di Girolamo

G-Protein-mediated Signalling Laboratory, Department of Cellular and Translational Pharmacology, Consorzio Mario Negri Sud, Santa Maria Imbaro, Italy

15.50 Role of mono-ADP-ribosylation in cell proliferation and cancer

G. Fabrizio, E.S. Scarpa, M. Di Girolamo

G-Protein-mediated Signalling Laboratory, Department of Cellular and Translational Pharmacology, Consorzio Mario Negri Sud, Santa Maria Imbaro, Italy

16.10 Coffee break - Poster session

16.40 “Amarcord” Hisanori Suzuki

M. Menegazzi

University of Verona, Faculty of Medicine and Surgery, Italy

New perspectives for PARP functions *Chairperson Maria Rosaria Faraone Mennella*

17.00 Epigenetic reprogramming in peripheral mononuclear cells from multiple sclerosis patients

R. Calabrese¹, T. Guastafierro¹, F. Ciccarone¹, E. Valentini¹, M. Zampieri¹, V. Ricigliano², V. Annibali², R. Mechelli², M. Salvetti², P. Caiafa¹

¹Department of Cellular Biotechnologies and Hematology, Faculty of Pharmacy and Medicine, “Sapienza” University of Rome; ²Center for Experimental Neurological Therapies (CENTERS), S. Andrea Hospital, Faculty of Medicine and Psychology, “Sapienza” University of Rome, Italy

17.20 Detection of poly(ADP-ribose) in human lymphocytes: a predictive marker of stress?

S. Grecchi, A. Lisa, A.I. Scovassi

Institute of Molecular Genetics of CNR, Pavia, Italy

17.40 PARylation controls the expression of the DNA hydroxylase TET1

F. Ciccarone^{1,2}, E. Valentini¹, M.G. Bacalini^{1,2}, T. Guastafierro^{1,2}, R. Calabrese^{1,2}, M. Zampieri^{1,2}, G. Mariano¹, A. Reale^{1,2}, P. Caiafa¹

¹Department of Cellular Biotechnologies and Hematology, “Sapienza” University of Rome; ²Pasteur Institute-Fondazione Cenci Bolognetti, Rome, Italy

18.00 Poly(ADP-Ribosyl)ation is modulated in different paradigms of cell death

F. Aredia, A.I. Scovassi

Institute of Molecular Genetics of CNR, Pavia, Italy

20.00 Social Dinner

Saturday, June 1

PARP and DNA repair
Chairperson Grazia Graziani

9.30 Role of mismatch repair in the chemosensitivity of colon cancer to irinotecan, oxalipatin and poly(ADP-ribose) polymerase (PARP) inhibitors

L. Tentori¹, A. Muzi¹, A.S. Dorio¹, P. Vernole², F. Praz^{3,4}, G. Graziani¹

¹Department of System Medicine and ²Department of Sciences and Technology of Education, University of Rome Tor Vergata, Italy; ³INSERM, UMRS-938, Saint-Antoine Research Centre, F-75012, Paris, France; ⁴UPMC Université Paris 06, UMRS-938, Saint-Antoine Research Centre, F-75012, Paris, France

9.50 p63 Involvement in Poly(ADP-Ribose)polymerase 1 signaling of Topoisomerase I-dependent DNA damage in carcinoma cells

D. Montariello, A. Troiano, M. Malanga, V. Calabrò, P. Quesada

Department of Biology, Federico II University of Naples, Italy

10.10 Evidence for a role of PARP-1- p21 complex in DNA repair

I. Dutto¹, M.V. Sukhanova², M. Tillhon¹, O. Cazzalini³, L.A. Stivala³, A.I. Scovassi¹, O. Lavrik², E. Prospero¹

¹Institute of Molecular Genetics of CNR, Pavia; ²Institute of Chemical Biology and Fundamental Medicine, Novosibirsk, Russia; ³Department of Molecular Medicine, University of Pavia, Italy

PARP and Cancer
Chairperson Paola Caiafa

10.30 Role of PARP-1 in the regulation of Snail expression in epithelial cancer cells

G. Mariano¹, M. Zampieri^{1,2}, F. Ciccarone^{1,2}, T. Guastafierro^{1,2}, R. Calabrese^{1,2}, E. Valentini¹, P. Caiafa^{1,2}, A. Reale^{1,2}

¹Department of Cellular Biotechnologies and Hematology, Section of Clinical Biochemistry, "Sapienza" University of Rome; ²Pasteur Institute-Fondazione Cenci Bolognetti, Rome, Italy

10.50 The role of PARylation in the regulation of the Cancer Testis Antigen TSP50 expression

T. Guastafierro, R. Calabrese, M. Zampieri, F. Ciccarone, E. Valentini, G. Mariano, A. Reale, P. Caiafa

Department of Cellular Biotechnologies and Hematology, "Sapienza" University of Rome, Italy

11.10 Coffee break - Poster session

12.00 "Maria Malanga" Award

"Amarcord" Maria Malanga

P. Quesada, A. Ritieni, Federico II University of Naples, Italy

Lecture by the awarded PhD

13.30 Lunch

14.30 Concluding remarks

15.00 Plenary meeting: The future of the "ADP-ribosylators" community