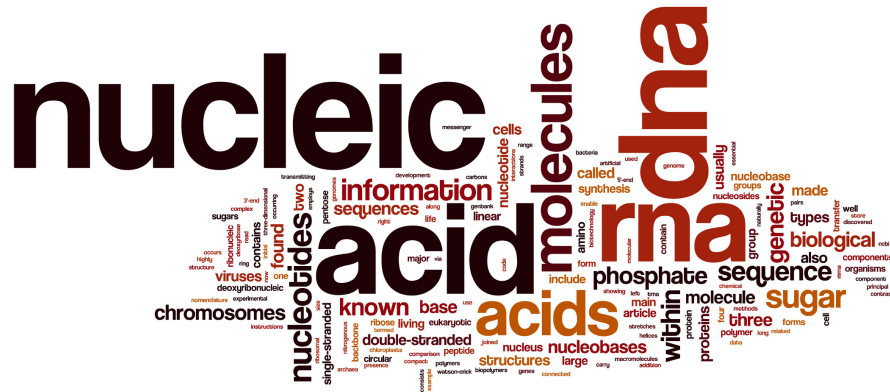


*“Deciphering and Reshaping Nucleic Acids”
1st Workshop of the SIB group “Nucleic Acids”*



Scientific Program

Thursday, October 5th 2023

Aula Circolare, University of Calabria, Rende (CS)

16:00 - 18:00 Registration

Friday, October 6th 2023

Aula Circolare, University of Calabria, Rende (CS)

08:00 – 09:00 Registration

09:00 – 09:30 Opening Conference | Institutional Greetings

Session 1 “Nucleic Acids: Structure, Modelling and Biochemistry”
Chair: Anna Maria Musti (University of Würzburg)

09:30 – 10:00 Opening Lecture Session 1
Paolo Vincenzo Pedone (*University of Campania Luigi Vanvitelli*)
Structure and functions of Zinc finger DNA binding proteins in prokaryotes and eukaryotes

10:00 – 10:20 Daniela Valeria Miniero (*University of Bari Aldo Moro*)
Intron evolution: analysis in conserved genes

10:20 – 10:40 Federica Di Fonzo (*Sapienza University of Rome*)
Metabolism and DNA repair: clues from the role of human serine hydroxymethyltransferase

10:40 – 11:00 Michele Galluccio (*University of Calabria*)
The human SLC38A2 (SNAT2) transporter: two different protein isoforms derived from two highly similar mRNA transcripts

11:00 – 11:30 *Coffee Break*

***“Deciphering and Reshaping Nucleic Acids”
1st Workshop of the SIB group “Nucleic Acids”***

Session 2 “Nucleic Acids: New tools and Translational Approach”

Chair: Michele Galluccio (University of Calabria)

11:30 – 12:00 Opening Lecture Session 2

George Nagel (*University of Würzburg*)

Microbial opsins in transgene animals and plants: chances and challenges

12:00 – 12:20 Giorgia Natalia Iaconisi (*University of Salento*)

Optimizing Recombinant Protein Production in *E. Coli* Cells through Co-Transformation Approach

12:20 – 12:40 Amer Ahmed (*University of Bari Aldo Moro*)

Generation of a Yeast Cell Model Potentially Useful to Identify the Mammalian Mitochondrial N-Acetylglutamate Transporter

12:40 – 13:00 Francesca Rizzo (*University of Bari Aldo Moro*)

Understanding the mechanism of human mtDNA replication through the identification of novel regulatory factors by BioID2-based proximity labelling

13:00 – 14:00 Lunch

Session 3 “Nucleic Acids: Application in Biomedical Science”

Chair: Davide Sartini (Polytechnic University of Marche)

14:00 – 14:30 Opening Lecture Session 3

Sander Kersten (*Wageningen University*)

PPARalpha, the master transcriptional regulator of lipid metabolism in the liver

14:30 – 14:50 Simona Nicole Barile (*University of Bari Aldo Moro*)

Impaired bioenergetic profile in neuron progenitor cells from iPSCs of patients affected by AGC1 deficiency

14:50 – 15:10 Roberto Campagna (*Polytechnic University of Marche*)

Nicotinamide N-methyltransferase: a key enzyme of pyridine metabolism and a target for human osteosarcoma treatment

15:10 – 15:30 Davida Mirra (*University Campania Luigi Vanvitelli*)

Modulation of microRNA in human alveolar macrophages by cigarette smoke

15:30 – 16:00 Coffee Break

“Deciphering and Reshaping Nucleic Acids”
1st Workshop of the SIB group “Nucleic Acids”

Session 4 “Nucleic Acids in Biology: Epigenetic regulation and misregulation”

Chair: Paola Loguercio Polosa (University of Bari Aldo Moro)

16:00 – 16:30 Opening Lecture Session 4

Modesto Orozco (*IRB Barcellona*)

A multiscale view to nucleic acids biology

16:30 – 16:50 Camilla Morresi (*Polytechnic University of Marche*)

Effect of high glucose diet and intestinal cells: possible molecular and epigenetic mechanisms

16:50 – 17:10 Marina La Chimia (*Magna Græcia University of Catanzaro*)

Epigenetic meets metabolism: Phospho-DJ1 as a novel player in epigenetic misregulation

17:10 – 17:30 Diana Marisol Abrego Guandique (*Magna Græcia University of Catanzaro*)

Perinatal Nutrition: MicroRNAs profiling in liver tissue under Western diet

17:30 – 18:00 Closing Remarks