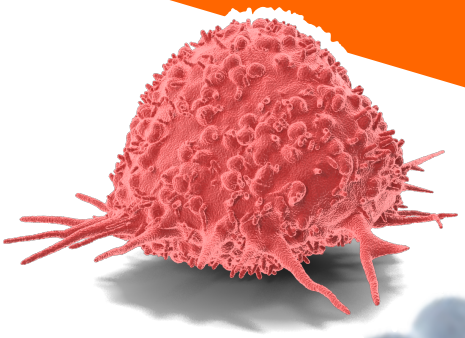
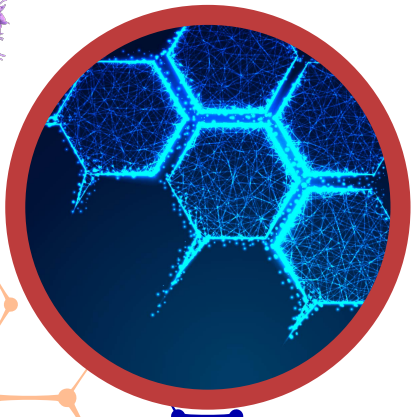
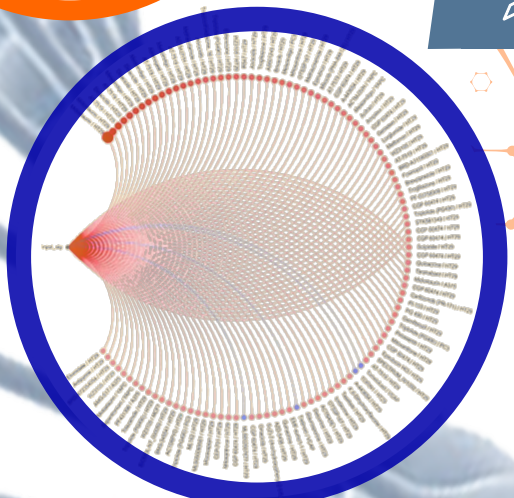
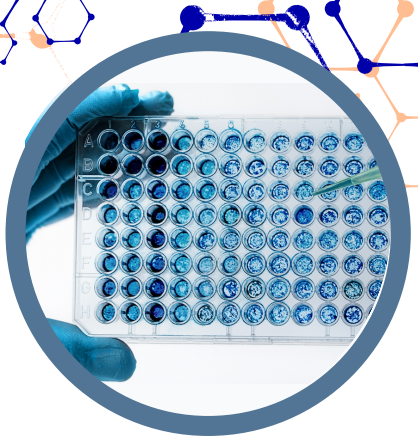
I Biochimici UPO presentano

Giornata della Biochimica UPO









Venerdì 17 Gennaio 2025
dalle **ore 9:00** alle **ore 16:30**
Sala della Cripta, Sant'Andrea, Vercelli

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Evento sponsorizzato da:

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Giornata della Biochimica
Biochemistry Day
PROGRAMME

09:00-09:15
Prof. M. Rizzi (Rettore)
Welcome and Introduction

SESSION 1 - Biochemistry of Tumors

09:15-09:45 (20 min and 10 min discussion)
Prof. Gianluca Baldanzi (DiMET)
Diacylglycerol kinases in immunity and pathology

SHORT TALKS (8 min)
Dr. Valeria Malacarne (RTD-A DiMET)
Diacylglycerol kinase alpha promotes ubiquitination and cell surface downregulation of chimeric antigen receptor

Dr. Luisa Racca (Research Fellow DiMET)
In silico design of diacylglycerol kinase inhibitors for acute myeloid leukemia therapy

09:45-10:15 (20 min and 10 min discussion)
Prof. Valentina Audrito (DiSIT)
The impact of NAD/NAMPT axis in tumors: focus on melanoma and malignant pleural mesothelioma

FLASH TALKS (5 min)
Dr. Irene Fiorilla (PhD Student DiSIT)
Bi-directional crosstalk between NAD/NAMPT and IFN-γ/PD-L1 axes in melanoma

Dr. Alberto Maria Todesco (PhD Student DiSIT)
NAMPT inhibition impairs mTOR-dependent regulation of translation in melanoma

Dr. Beatrce Ghezzi (PhD Student DiSIT)
The role of NAMPT within the nucleus and its relationship with NNMT in melanoma

10:15-10:30 (10 min and 5 min discussion)
Prof. Valentina Audrito (DiSIT)
in collaboration with
Prof. Mauro Patrone (DiSIT), AOU-AL and University of Genoa
Soluble NAMPT in malignant pleural mesothelioma and in cystic fibrosis

10:30-11:00 (20 min and 10 min discussion)
Prof. Alessio Menga (DiSS)
Metabolic Reprogramming: Unveiling the Role of Amino Acid Metabolism in the Cancer Microenvironment

SHORT TALKS (8 min)
Dr. Elia Angelino (RTD-A DiMET)
Impaired cAMP/CREB1 signaling drives mitochondrial dysfunction in skeletal muscle during cancer cachexia

11:00-11:30 (20 min and 10 min discussion)
Prof. Daniela Capello (DiMET)
Aging and Cancer: from experimental models to biomarkers discovery

SHORT TALKS (7 min)
Dr. Annamaria Antona (RTD-A DiMET)
The antipsychotic drug penfluridol displays cytotoxicity in breast cancer cells by inducing mitochondrial damage and activating the endoplasmic reticulum stress response

Dr. Jacopo Venetucci (Lab Technician Polo Novara)
Oxidative stress-induced senescence in adipose stem cells: standardized approach to investigate age-associated modification in visceral adipose tissue

Dr. Marco Varalda (Research Fellow DiMET)
Adipose Tissue and Cancer: Investigating the Role of Crosstalk between Adipose-Derived Stem Cells (ADSCs) and Colorectal Cancer in Tumor Proliferation and Metabolism

11:30-11:45
Coffee break (short presentation of Seahorse Technology AHSI-Savatec)

SESSION 2 - Biochemistry of Nutrition

11:45-12:15 (20 min and 10 min discussion)
Prof. Maria Cavaletto (DiSSTE)
The role of Milk Fat Globule Membrane

Dr. Annalisa Givonetti (Postdoc DiSSTE)
Hempseed proteins: a gateway to antioxidant peptides and their bioactivities

SESSION 3 - Proteomics and Metabolomics

12:15-13:00 (30 min and 15 min discussion)
Prof. Marcello Manfredi (DiMET)
in collaboration with
Prof. Mauro Patrone (DiSIT)
Multi-omics landscape in health and disease

13:00-14:00
Lunch (only for components of the groups)

SESSION 4 - Structural Biochemistry

14:00-14:30 (20 min and 10 min discussion)
Prof. Silvia Garavaglia (DSF)
Dr. Giulia Ferrara (PhD Student DSF)
The superfamily of Aldehyde Dehydrogenases, from pharmacological targets to valuable tools in bioremediation

14:30-15:00 (20 min and 10 min discussion)
Prof. Riccardo Miggiano (DSF)
Integrative structural biology and biochemistry for rational drug design and mechanistic understanding of cellular events

FLASH TALKS (4 min)
Dr. Marta Alberti (Postdoc DSF)
Rationally driven targeting of dihydroorotate dehydrogenase: key enzyme involved in pyrimidine biosynthesis pathway

Dr. Daniele Mazzoletti (Postdoc DSF)
Bacterial DNA replication initiation: structural and kinetic insights into the replicative helicase loading mechanism

Dr. Marianna Genta (Postdoc DSF)
Structural, biochemical and biophysical investigation of Nucleotide Excision Repair system in bacteria

Dr. Matteo Leoncini (PhD Student DSF)
PARP protein family as new pharmacological target: preliminary analysis of PARP15 for structural and biochemical characterization

Dr. Andrea Butticè (PhD Student DSF)
Biochemical and structural characterization of heme-binding proteins: the case of heme oxygenase and indoleamine 2,3-dioxygenase-1

15:00-15:30 (20 min and 10 min discussion)
Prof. Davide Maria Ferraris (DSF)
Molecular approaches for targeting diseases

SHORT TALKS (10 min)
Dr. Aaron Madden (PhD Student DSF)
Structural and functional investigations on protein cancer targets involved in lipid metabolism

Dr. Fabio Testori (PhD Student DSF)
Microgravity-enhanced drug discovery for the rational development of inhibitors against cancer and infectious diseases

15:30-16:00 (20 min and 10 min discussion)
Prof.Franca Rossi (DSF)
Biochemical and structural studies of Anopheles gambiae cytosolic sulfotransferases

16:00-16:30
Discussion and closing

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UNIVERSITÀ DEL PIEMONTE ORIENTALE