



**UNIVERSITÀ
DI PARMA**



SERVIZIO SANITARIO REGIONALE
EMILIA-ROMAGNA
Azienda Unità Sanitaria Locale di Parma
Azienda Ospedaliero - Universitaria di Parma

IV Research Day DiMeC – 2024



Castello di Gropparello – 4 Ottobre 2024

Dipartimento di Medicina e Chirurgia

In collaborazione con l'Azienda Ospedaliero-Universitaria di Parma

09.00. **MESSAGGIO DI BENVENUTO**

Paolo Martelli, Magnifico Rettore dell'Università di Parma

09.15. **SALUTI DELLE AUTORITÀ e INTRODUZIONE DEI LAVORI**

9.30. PLENARY LECTURE

Artificial intelligence in medicine: opportunities and threats

Andrea Prati

Dipartimento di Ingegneria e Architettura

Prorettore ai Sistemi Informativi, Innovazione e PNRR

ORAL SESSION

10:15-12:30

SESSION 1: Neuroscience and Disorders of the Nervous System

Chair: **Paolo Ossola** (Psychiatry Unit).

10.15. **Salihu Mohammed** (Laboratory of Biochemistry, Molecular Biology and Oncometabolism). **The Role of Chaperone Clusterin on α -Synuclein aggregation in a cell line model of Parkinson's disease.**

10.30. **Stefano Uccelli** (Perception and Psychophysics Laboratory). **Perception - action dissociations depend on factors that affect multisensory processing.**

10.45. **Giuseppe Ciullo** (Brain Imaging Laboratory). **Functional activation of the Mirror Neuron System in patients with Mild Cognitive Impairment and Alzheimer Disease during actions observation and imitation: preliminary findings.**

11.00-11.30 Coffee break

SESSION 2: Immunity, inflammation, and intervention

Chair: **Carolina Boni** (Laboratory of Viral Immunopathology)

11:30. **Bianca Vezzani** (Laboratory of Biogerontology and Geroscience). **C3aR1 as a key regulator of adipose tissue inflammation in aging.**

11.45. **Stefano Kayali** (Gastroenterology Unit). **Different impact of biological therapy in reducing the long-term need for surgery in Crohn's disease according to NOD2 genotype.**

12.00. **Lorenza Artesani** (Laboratory of Microbiology and Virology). **Developing biological models to test new treatments for biofilm-associated infections.**

12.15. **Rocco Accogli** (Pneumology Unit). **Breathing pattern and ventilatory response to exercise in patients with COPD.**

12:30 – 13:30 Lunch break

13:30 – 15:30 Poster View

**ORAL SESSION
15:30-18:00**

SESSION 3: Diagnostic and Surgery

Chair: **Cristina Marrocchio** (Unit of Radiological Sciences)

15.30. **Ludovica Leo** (Unit of Radiological Sciences). **Applicability and accuracy of structured-reporting template in lung cancer staging: a comparative analysis with conventional narrative-reporting.**

15.45. **Michela Gaiano** (Gynecologic Oncology Group, Obstetrics and Gynaecology Unit). **Predictors of venous thromboembolism in patients with advanced high grade serous ovarian cancer undergoing surgical treatment: a retrospective cohort study.**

16.00. **Roberta Iaria** (EMDOLA Unit of Oral Surgery Oral Medicine and Laser Therap). **Promotion of oral soft tissue healing by combined use of cross-linked hyaluronic acid gel and porcine pericardium resorbable membrane.**

16.15. **Ganiyat Adenike Ralitsa Adebajo** (Radiology Unit). **Pneumothorax in transthoracic CT-guided lung biopsies: usefulness of needle tract sealing with saline solution.**

16.30. **Fabio Mozzarelli** (Nursing and allied health professions for medical humanities in global health). **Barriers and facilitators to the implementation of enhanced recovery after surgery (ERAS) protocols according to nurses' experience: a mixed method study.**

16.45-17.15 Coffee break

SESSION 4: Precision medicine and targeted therapy

Chair: **Giovanni Roti** (Translational Hematology and Chemogenomics)

17.15. **Elisa Araldi** (Systems Medicine Laboratory). **Type 2 Diabetes risk alleles in Peptidyl-glycine Alpha-amidating Monooxygenase influence GLP-1 levels and response to GLP-1 Receptor Agonists.**

17.30. **Mirko Treccani** (Medical Genetics Units). **Multiple omic approaches to unravel the genetic complexity of common and rare diseases.**

17.45. **Monica Cozzi** (Laboratory of Biophysics and Medical Physics). **BIOMHEME - A biomimetic approach to remove free hemoglobin from plasma inspired by bacterial iron capturing systems.**

18.00. **Erika Griffini** (Laboratories of General Pathology and Industrial Toxicology). **The bidirectional metabolic cross-talk between bone marrow stroma and multiple myeloma cells drives the formation of a pro-tumor niche.**

18:00 - 19:30: Poster View

19:30. Apericena, Awards and Concert

POSTER SESSION: Neuroscience and Disorders of the Nervous System

1. **Bozzetti Francesca** (Neuroradiology Unit) Neurophysiological changes after Action Observation Treatment Integrated with Virtual Reality in patients with Stroke
2. **Conti Luigi** (Laboratorio di Morfologia) Blood platelets instead of neurons in Alzheimer's disease diagnosis
3. **De Negri Beatrice** (Primates Connectome Lab) Frontal and perisylvian networks for the perception of emotional faces
4. **Fanzaghi Patrizia** (Rehabilitation Medicine Service) Educational intervention for the prevention of positional occipital plagiocephaly: a randomized controlled study
5. **Gelosini Benedetta** (Laboratorio di Psicologia Cognitiva) Meeting the future. A participatory approach among elderly and focus group with NAO robot
6. **Guidotti Sara** (Laboratory of Clinical Psychology, Clinical Psychophysiology, and Clinical Neuropsychology) Autonomic Dysfunction and Psychological Distress Levels among Healthcare University Students Suggesting Slight Signs of Burnout: A Case-Control Study
7. **Lapadula Amelia** (Neurofisiologia e Comportamento per Primate Non Umani) Connectional organization of the macaque ventrolateral prefrontal cortex is reflected in the functional specificities of its sectors
8. **Nuredini Andi** (Laboratorio istopatologia neuromuscolare) Neuromuscular Histopathology for clinical and research purposes
9. **Paolini Simone** (Istituto di Neuroscienze, Consiglio Nazionale delle Ricerche) The role of sensorimotor integration in comprehending others' gestures via mirror mechanisms.
10. **Presta Valentina** (Laboratori del Movimento Umano e Postura e delle Scienze dell'Esercizio Fisico e dello Sport) Research in health and sport settings: the experience of ESS Lab
11. **Scopa Chiara** (Laboratorio di Biologia Comportamentale) Impact of Environmental Endocrine Disruptors on mother-child pairs t: Insights from the Life MILCH Project

POSTER SESSION: Immunity, inflammation and intervention

1. **Albertini Roberto** (Laboratory of Hygiene and Aerobiology) Airborne pollen and fungal spores in northern Italy: the results of a 27-years period of monitoring activity in Parma
2. **Capra Maria Elena** (Pediatrics and Neonatology Unit) Complementary feeding in the clinical practice
3. **Cinquegrani Gloria** (Endocrinology and Metabolic diseases) Stearate drives human macrophages to M1 immunometabolic profile: the putative mitigating role of empagliflozin
4. **Deolmi Michela** (Pediatric Clinic) Long COVID in Pediatric Age: An Observational, Prospective, Longitudinal, Multicenter Study in Italy
5. **Gianni Giuliana** (Department of Allergology) Safety and efficacy of egg oral immunotherapy
6. **Gurgoglione Filippo Luca** (Department of Cardiology) Association between allergic inflammatory diseases and coronary atherosclerotic disease extent and phenotype, evaluated through computerized tomography: the allergic-CAD study
7. **Maccari Chiara** (Laboratory of Industrial Toxicology and Advanced Analytical Methods) EXPOASMA: Pollution, oxidative stress and Exposome
8. **Matera Biagio** (Biomaterials and Tissue Engineering Laboratory) Can titanium implant surface properties guide macrophage polarization and improve osseointegration?

9. **Ranzieri Silvia** (Occupational Health and Toxicology Unit, Dept. of Medicine and Surgery) Emerging risks for safety and health at work in the “green jobs”: focus on solar energy production plants
10. **Reverberi Valentina** (Unit of Infectious Diseases and Hepatology) Metabolic and Functional Characterization of CD8+ T-Cell Subpopulations in Hepatocellular Carcinoma: Implications of Tumor Microenvironment on T-Cell Dysfunction

POSTER SESSION: Diagnostic and Surgery

1. **Antonelli Rita** (Salivary Research Group) Identification of salivary miRNAs in women at high risk of breast and ovarian cancer development
2. **Bianchi Edoardo** (Reparto di Protesi - Centro Universitario di Odontoiatria) Accuracy of different 3D printers in the fabrication of digital dental models and adhesive indirect restorations: a preliminary analysis with micro-computed tomography
3. **Bianco Valentina** (Endocrinologia Pediatrica) Observational study on the role of miRNAs for the diagnosis of Growth Hormone Deficiency (GHD) in childhood, and as predictors of response to GH Therapy: preliminary results
4. **Boscarino Giovanni** (Neonatology Unit) Predictive role of reticulocyte fluorescence for late red blood cell transfusion need in very low birth weight infants
5. **Demeco Andrea** (Fisiatria) Augmented reality for surgical procedures training: knee infiltration case use
6. **Guasconi Massimo** (Nursing and allied health professions for medical humanities in global health) Artificial Intelligence in support of nursing students: a potential pathway to maximise learning? a randomised controlled trial
7. **Melito Chiara** (Obstetric and Gynecology Unit) Preliminary results on the assessment of the feasibility of instrumental delivery using an automatic algorithm
8. **Mercuriali Beatrice** (Laboratory of Behavior and Developmental Health University) Advancing Neonatal Bone Health: A REMS-Based Ultrasound Algorithm for Early Detection of Metabolic Bone Diseases
9. **Migliari Silvia** (Nuclear Medicine Division) Translational imaging of β -cells in diabetic (Type 1 and 2) and obese subjects using the PET tracer [^{68}Ga]Ga-NODAGA-exendin-4
10. **Pampuri Giulia** (Cardiac Surgery Unit) Failure-to-Rescue Metric as a Measure of Outcomes in Cardiac Surgery: An Observational Prospective Five-Year Study.
11. **Berdini Michele** (UOC Anestesia e Rianimazione) The Postoperative Use of Wearable Devices in Surgical Ward: a Study Protocol
12. **Salvi Marco** (Geriatric Clinic Unit) Analysis of the Association Between Neuropsychological Assessment and Amyloid PET in Subjects with Mild Cognitive Impairment: Italian Medicines Agency INTERCEPTOR Project
13. **Scialoia Luisa Pia** (Applications in Vascular Surgery of 5D Personalized Nanomedicine through 3D Bioprinting and Scaffold Functionalization) Preliminary evaluation of 3D-printed alginate/gelatin scaffolds for apolipoprotein A1 fast release as suitable devices for personalized medicine
14. **Zucchini Irene** (Geriatric Clinic Unit) Relevance of the Nutritional Intervention and Hormonal Axes Regulation for the Prevention of Mobility Disability in the Sarcopenic Obese SPRINT-T Trial Population

POSTER SESSION: Precision medicine and targeted therapy

1. **Adorni Maria Pia** (Unit of Neurosciences) Pharmacological control of cellular cholesterol homeostasis and high-density lipoprotein (HDL) functions
2. **Caputo Alessia** (Laboratorio di Tecnologie Mediche Sperimentali ed Avanzate) Transcriptomic analysis of the left and right ventricles in a rat model of pulmonary hypertension.
3. **Ciringione Alessia** (Laboratory of Biochemistry, Molecular Biology and Oncometabolism) Motility of triple-negative breast cancer cells is affected by Clusterin expression through ECM remodeling and cytoskeleton reorganization
4. **Di Martino Orsola** (Laboratory of Human Anatomy and Hematopoietic System Applied Biology) Retinoid receptors as therapeutic target for Acute Myeloid Leukemia treatment.
5. **Digiacoemo Graziana** () Novel therapeutic options for Orphan genomic alterations (OGA) in preclinical models of Non-Small Cell Lung Cancer (NSCLC) Gruppo petronini
6. **Di Marco Giulia** (Urology Division) Precision strategy for diagnosis and treatment of prostate cancer improves oncological and functional outcome
7. **Fainardi Valentina** (Pediatric Clinic) Compassionate use of Elexacaftor/tezacaftor/ivacaftor in cystic fibrosis patients with rare mutations
8. **Gallo Mariana** (Laboratory of Biochemistry and Metabolomics) Structural studies of bioactive peptides: a key to understanding their mechanism of action.
9. **Giudice Giulia Claire** (Sezione di Oncologia) Deciphering tumor biology and immune-metabolic landscape in advanced cancer patients treated with immunotherapy
10. **Iannozzi Nicolas Thomas** (Ematologia) 1q21 copy number alteration in multiple myeloma patients: impact on malignant plasma cells and on bone microenvironment cells
11. **Lilloni Giovanni** (Maxillofacial Unit) Exploring patient stratification in head and neck squamous cell carcinoma using machine learning techniques: preliminary results
12. **Nogara Antonella** (Pathology Unit – Cell Culture Laboratory) CD26 is differentially expressed throughout the life cycle of infantile hemangiomas and characterizes the proliferative phase
13. **Quartulli Francesca Pia** (RE.MO.BIO.S. Morfologia Rigenerativa e Strutture Bioartificiali) A bioinformatic interactomic analysis of “high-dimensional data” from proteome functional clusters: innovations from the Horizon Project SCREENED #825745 based on rat thyroid stem cells tested in an EU Joint Research Centre-submitted in vitro assay
14. **Simoncini Elisa** (Laboratorio di Ematologia Traslazionale e Chemogenomica) Uncovering The Potential Of The Pa2g4-Myc Axis As A Target In 3q26 Acute Myeloid Leukemia
15. **Turrini Elena** (UOC Pediatria e Oncoematologia) Efficacy of hydroxyurea in reducing the incidence of acute complications in children with sickle cell disease