

Opening Lecture (15:30-16:00)
Intelligenza Artificiale: opportunità e rischi
Prof.ssa Michela Milano

Presentazioni selezionate dei dottorandi (16:00-17:00)

Moderatori: Coordinatori dei dottorati

Niccolò Daddi, Igor Diemberger, Manuela Ferracin, Emanuela Marcelli e Susi Pelotti

1. Tocilizumab in kidney transplant recipients with cAMR. **Chiara Abenavoli**
 2. CAR-T cell biology in the treatment of patients with hematological malignancies.
Francesco De Felice
 3. Engineering bioinks for 3D bioprinting of human tissue models as alternatives to *in vivo* testing. **Luana Di Lisa**
 4. When staging does not match: prognostic impact of clinical–pathological discrepancy in OPHL-treated patients. **Matteo Fermi**
 5. Fatty acid intake and risk of colorectal and bladder cancer. **Monieh Sadat Seyyedsalehi**
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25 settembre 2025 -giovedì

8:30 Registrazione partecipanti e affissione poster

(Polo Murri, Padd. 25-25)

I sessione - Aula Murri (9:00-10:40) - Moderatori: *Marco Palanca, Lara Pisani, Achille Tarsitano*

- 09:00** Prevalence and Prognostic Impact of Airspace Enlargement with Fibrosis in Patients with Interstitial Lung Disease. **Ilaria Bassi**
- 09:12** La sarcopenia sistemica e respiratoria sono possibili predittori oncologici nei pazienti sottoposti a Vats-Lobectomy per NSCLC? Uno studio osservazionale. **Alice Bellini**
- 09:24** Il ruolo della proliferazione neuroendocrina multifocale del polmone (MNEP) concomitante al carcinoma tipico o atipico. **Daniel Bianchi**
- 09:36** The LungVision navigational platform for preoperative labeling of pulmonary ground glass nodules with fiducial markers. **Gian Piero Bandelli**
- 09:48** Identification of the genetic landscape of neuroendocrine neoplasms to improve differential diagnosis and identify a signature for tumor aggressiveness. **Nicoletta Ranallo**
- 10:00** A33 Aptamer Targeting ErbB-3/HER3: A Promising Strategy to Overcome Non-Genomic Drug Resistance to EGFR Inhibitors. **Federica Pagano**
- 10:12** Edema polmonare nell'intossicazione acuta da oppioidi: il ruolo di AQP1. **Elena Giovannini**

I sessione parallela - Aula Piccinini (9:00-10:40) - Moderatori: Maurizio Brigotti, Fausto Catena, Stefano Salvioli

- 09:00** Complicanze vascolari nel trapianto di rene: trattamento endovascolare. **Alessia Pini**
- 09:12** Pioneering Prospective Study on Viscosity and Elasticity in Liver Transplantation. **Sofia Maria Bakken**
- 09:24** Ricerca di markers non invasivi di graft-injury in pazienti pediatrici ed adulti affetti da cardiopatia congenita sottoposti a trapianto cardiaco. Un'analisi ad interim. **Simone Bonetti**
- 09:36** Application of high hydrostatic pressure for the development of an inactivated whole virus SARS-CoV-2 vaccine candidate. **Martina Brandolini** ([via Teams](#))
- 09:48** Addressing structural inequity for migrants in primary healthcare: A Multi-Methodological Study in Bologna. **Leonardo Mammana**
- 10:00** Analisi delle microvescicole circolanti in pazienti sottoposti a trapianto allogenico di midollo e correlazione con l'insorgenza di GvHD. **Francesco Barbato**

10:40 – 11:10 Coffee Break (Open Space)

II sessione - Aula Murri (11:10-13:00) - Moderatori: Mattia Lauriola, Massimiliano Palazzini, Carmine Pizzi

- 11:10** Prognostic role of right ventricular-pulmonary arterial coupling in acute myocardial infarction. **Francesco Angeli** ([via Teams](#))
- 11:22** Evaluating the Impact of the "Telebriefing Cardiologico" Project on Healthcare Indicators and Prescription Appropriateness in Primary Care: A Difference-in-Difference Analysis. **Francesco Sanmarchi**
- 11:34** Novel strategies to stimulate cardiomyocyte regeneration via inhibition of the TGF- β signaling pathway. **Irene Del Bono**
- 11:46** Healthy Eating beyond Whole Grains-Insight on Associations between Diet Quality and Arterial Stiffness in the Brisighella Heart Study Cohort. **Marina Giovannini**
- 11:58** Predicting Major Arrhythmic Events in Non-Ischaemic Cardiomyopathy by Cardiac Magnetic Resonance. **Luca Bergamaschi**
- 12:10** Arrhythmic risk stratification in patients with left ventricular ring-like scar. **Vanda Parisi** ([via Teams](#))
- 12:22** Telemedicine and Multiparametric Monitoring for the Integrated Management of Patients with Advanced Heart Failure, LVAD, and Heart Transplant. **Laura Borgese**
- 12:34** Comparison of Triple Oral and Triple Parenteral Combination Therapy In Pulmonary Arterial Hypertension. **Alberto Ballerini**

II sessione parallela - Aula Piccinini (11:10-13:00) - Moderatori: Luca Cristofolini, Angela Gambelunghe, Marco Viceconti

- 11:10** In Silico Hip Fractures Prediction: Frailty-adjusted BoneStrength Platform. **Giacomo Savelli**
- 11:22** Spatial-temporal modulation of Lamin defines the malignant features of sarcomas. **Cecilia Foglini**
- 11:34** Percutaneous Electrical Nerve Stimulation (PENS) for painful surgical scar. **Antonio Gioia**
- 11:46** Myobolical toolbox to exceed the individual muscle control solution. **Alex Bersani**
- 11:58** Use of structural bone allograft in revision hip arthroplasty for massive acetabular defect: A systematic review and meta-analysis. **Pietro Cimatti**
- 12:10** Visualizing the mental representation of a "Good doctor": testing its potential effects on pain modulation. **Ilenia Ceccarelli**
- 12:22** Biomechanical evaluation of knee mechanical behaviour and interface stresses with a new concept of alignment for total knee arthroplasty (NEW-KNEE). **Vera Maioli** ([via Teams](#))
- 12:34** Computational Modeling in Mandibular Reconstruction: Validation Strategies and Bone Healing Simulation. **Camilla Gironi**

POSTER SESSION (13:00 – 14:30)

III sessione - Aula Murri (14:30-16:30) - Moderatori: Antonio Curti, Matteo Marchesini, Marianna Penzo

- 14:30** Identifying novel therapeutic vulnerabilities of acute myeloid leukemia molecular subtypes. **Mouna Jandoubi** ([via Teams](#))
- 14:42** A new-generation multiomic risk-adapted prognostic index for smoldering myeloma. **Delia Cangini** ([via Teams](#))
- 14:54** Beyond supervised deep learning frameworks for precision medicine. **Andrea Espis**
- 15:06** Noduli ipointensi in fase epatobiliare privi di ipervascolarizzazione arteriosa nei pazienti cirrotici: sviluppo di un modello per predire la trasformazione maligna in HCC. **Nicolò Brandi**
- 15:18** Studio del microambiente infiammatorio tumorale in campioni istologici mediante approcci di Patologia Digitale. **Elena Demaria**
- 15:30** FLT3 Mutational Status is Associated with Differences in Acute Myeloid Leukemia Immune Transcriptomic Profile Impacting on Response to FLT3 Inhibitors. **Jacopo Nanni**
- 15:42** Microfluidics-based single-cell profiling of adapter CAR-T cell therapies. **Hector Caballero Gonzalez**
- 15:54** The potential role of the aortic valve calcium score by computed tomography scan in the diagnosis of concomitant cardiac amyloidosis in patients with severe aortic stenosis. **Alberto Ponziani**
- 16:06** Venetoclax-based therapies: mechanisms of resistance and novel therapeutic approaches in relapsed/refractory cases. **Francesca Ruggieri**
- 16:18** Cancer of Unknown Primary genomic profiling from cell-free DNA provides insights into CUP biology. **Beatrice Fontana**

III sessione parallela - Aula Piccinini (14:30-16:30) - Moderatori: Fabio Dall'Olio, Tiziana Lazzarotto, Aurelia Santoro

- 14:30** Rischio di infertilità in giovani donne sottoposte a chirurgia per malattia infiammatoria cronica intestinale: studio di coorte multicentrico internazionale. **Anna Paola Pezzuto**
- 14:42** Shiga tossine e sindrome emolitica uremica: patogenesi, diagnosi e terapia. **Luciano Consagra**
- 14:54** Toward in silico trials to estimate the risk of aseptic loosening in new joint replacement designs. **Xiaoshu Sun**
- 15:06** Safety and efficacy of atrial fibrillation ablation in kidney transplant patients. **Lorenzo Bartoli**
- 15:18** Helicobacter pylori screening integrated to occupational health surveillance - the HPOS Study. **Giulia Collatuzzo**
- 15:30** Efficacia e sicurezza del trapianto di microbiota fecale per la prevenzione delle complicanze infettive precoci dopo trapianto di fegato: risultati preliminari del trial randomizzato controllato in doppio-cieco FMT-OLT. **Elton Dajti**
- 15:42** Diagnostic implementation in microbiology: from Fast microbiology to Pathogen Discovery. **Giulia Gatti**
- 15:54** Metodi innovativi per il subtyping di micobatteri non tubercolari finalizzati alla gestione del rischio in ambito sanitario. **Francesco Bisognin**
- 16:06** Self-Assessment Survey per l'analisi del Microbioma: promuovere qualità e standardizzazione nelle biobanche. **Alice Bernardi**

16:30 – 18 Poster session & Coffee (Open Space)

26 settembre 2025 -venerdì

I sessione - Aula Murri (9:00-10:40) - Moderatori: Serena De Matteis, Riccardo Masetti, Antonino Musolino

- 09:00** Early identification of efficacy- and toxicity-related markers in Non-small Cell Lung Cancer patients treated with immune checkpoint inhibitors. **Paola Cravero**
- 09:12** Immune profiling prior to allogeneic SCT and reconstitution patterns in children with hematologic diseases: impact on GvHD and relapse incidence. **Francesca Gottardi**
- 09:24** Characterization of T cell dysfunction in AML patients during treatment with hypomethylating agents plus Venetoclax. **Jessica Rosa**
- 09:36** Transcriptomic insights into aggressive small round cell sarcomas. **Elisa Simonetti**
- 09:48** Clinical phenotype and epidemiology of patients with cancer related fatigue. **Anita Zeneli**

- 10:00** Integrative Multi-Omics and 3D *in-vitro* Modelling to Uncover Resistance Mechanisms and Risk Stratification in Multiple Myeloma. **Nour Alassi** ([via Teams](#))
- 10:12** Alla ricerca di un equilibrio tra GvHD e GvL nel trapianto allogenico. **Margherita Ursi** ([via Teams](#))
- 10:24** Investigating the rationale for cabozantinib use in patients with cholangiocarcinoma. **Chiara Delbaldo**

I sessione parallela - Aula Piccinini (9:00-10:40) - Moderatori: *Miriam Capri, Ivana Kurelac, Alessandro Silvani*

- 09:00** Memory shaped and resorbable sutures for microsurgery. **Arianna Palumbo**
- 09:12** Developing *in vivo* model for RRM2b mitochondrial encephalomyopathy. **Silvia Sabeni**
- 09:24** Progettazione di un programma di Digital Care per la gestione dei pazienti con strabismo: studio pilota sulla valutazione pre-operatoria. **Matilde Roda** ([via Teams](#))
- 09:36** Tackling Ponto-Cerebellar Hypoplasia 6 due to mitochondrial RARS2 defect in patients-derived stem cells: from disease mechanism of tissue-specificity to novel experimental therapies. **Erika Santi**
- 09:48** Precision medicine in Neurofibromatosis type 1: deciphering the functional effects of variants of uncertain significance in the NF1 gene in unsolved cases to improve differential diagnosis. **Elena Luppi**
- 10:00** Characterization of an SPG9 cell model to investigate hereditary spastic paraplegia: cell phenotyping and potential treatment. **Sherin Ramadan**
- 10:12** Moving FE-based predictors of femoral fracture closer to the clinics: a multi-perspective analysis on the Bologna Biomechanical Computed Tomography solution. **Julia Aleksandra Szyszko**
- 10:24** Advancements in the application of LC-MS/MS to Dried Blood Spots for the characterization of metabolic and hormonal derangement in adrenal diseases. **Greta Galante**

10:40 – 11:10 Coffee Break (Open Space)

II sessione - Aula Murri (11:10-13:00) - Moderatori: *Gabriele D'Uva, Giulia Gallerani, Eva Negri*

- 11:10** The Potential of 4 π Radiotherapy: A New Era for Improving Outcomes in Challenging Pediatric Cases? A Comparative Dosimetric Analysis. **Costanza Maria Donati**
- 11:22** La Re-Irradiazione nei Tumori Pediatrici: intenti curativi e palliativi. **Sabina Vennarini**
- 11:34** Trattamento con protonterapia dei tumori cerebrali primitivi: analisi degli outcomes. **Dante Amelio**
- 11:46** Cordomi e condrosarcomi della base cranica: valutazione efficacia e tossicità del trattamento protonterapico ad alte dosi. Valutazione di fattori predittivi di tossicità attraverso studio di modelli di radiobiologia. **Daniele Scartoni**

- 11:58** Impact of Learning Curve in the Transition from DaVinci to HUGO RAS: Focus on Robotic Radical Prostatectomy. **Matteo Droghetti**
- 12:10** Plasma Circular RNAs as Prognostic Biomarkers in Metastatic Prostate Cancer: Integration with Immune Deconvolution Using CIBERSORTx LM22. **Chiara Casadei**
- 12:22** Kidney-Liver Transplantation and Liver Transplantation in Autosomal Dominant Polycystic Kidney Disease: New Diagnostic and Clinical Assessment Tools to Improve Renal Outcomes. **Sarah Lerario**

II sessione parallela - Aula Piccinini (11:10-13:00) - Moderatori: Arianna Aceti, Marcello Lanari, Maria Chiara Pelleri

- 11:10** Diagnosi ecografica di adenomiosi uterina in pazienti con pregressa emorragia post-partum: studio prospettico. **Benedetta Orsini**
- 11:22** Outcome motorio precoce nei neonati molto pretermine/di peso molto basso alla nascita: il ruolo dei General Movements e del danno renale acuto. **Isadora Beghetti**
- 11:34** Midwifery practice and support in physiological birth: a descriptive study in the Italian context. **Elena Tarlazzi**
- 11:46** Management of Newborns with Congenital Malformations and Provision of Comfort Care. **Francesca Catapano**
- 11:58** Exploring the role of the circadian clock gene Differentiated Embryonic Chondrocyte expressed 1 (DEC1) in the adaptive mechanisms to mitochondrial Complex I deficiency in ovarian cancer: oncogene or tumor suppressor gene? **Laura Lanteri**
- 12:10** Analysis of anatomical parameters in the radiotherapy of breast cancer. **Francesco Cocco**
- 12:22** Wireless brain-muscle connection in Orthopaedic Oncology. **Alessandro Bruschi**
- 12:34** Unraveling the effects of genetic and pharmacological Complex I targeting on ovarian cancer microenvironment. **Francesca Nanetti**

POSTER SESSION (13:00 – 14:30)

III sessione - Aula Murri (14:30- 16:15) - Moderatori: Antonio Farina, Matteo Ravaioli, Rocco Maurizio Zagari

- 14:30** Impact and safety of GLP-1 Receptor Agonists on renal function and weight loss in patients with Chronic Kidney Disease and Obesity: a systematic review and meta-analysis. **Lilio Hu**
- 14:42** Augmented Reality to guide sutureless tumor dissection during Robot-assisted Partial Nephrectomy: A Preliminary Experience. **Nicola D'Altilia**
- 14:54** Evaluation of the efficacy of the combination of PD-L1 blockade by Durvalumab with Carboplatin plus Etoposide chemotherapy in metastatic pulmonary large-cell neuroendocrine carcinoma (LCNEC) – DUPLÉ study. **Elisa Andrini**
- 15:06** Augmented Reality for Orthopedic Surgery. **Naqash Nasir**
- 15:18** Crosstalk between Notch3 and PD-1/PD-L1 signaling in HCC and TNBC: a novel therapeutic perspective. **Annapaola Montagner**

15:30 IMPACTS Study: Case-Control Validation of a Modified Classification to Improve Reproducibility of Invasion Assessment in Lung Adenocarcinoma. **Francesca Ambrosi**

15:42 A Novel 3D Printed Multi-Material Simulator for Endoscopic Stapes Surgery: The "3D Stapes Trainer". **Giulia Molinari**

III sessione parallela - Aula Piccinini (14:30-16:15) - Moderatori: *Michelangelo Fiorentino, Caterina Garone, Luca Morandi*

14:30 Towards robust benchmarking of generative models for medical imaging. **Matteo Lai**

14:42 Machine learning for fast and reliable antimicrobial resistance prediction. **Ettore Rocchi**

14:54 Innovative imaging methods for an enhanced structural assessment of cartilage and soft tissues. **Simone Fantoni**

15:06 Understanding plasma–aerosol antimicrobial mechanisms through gas-phase and hydrogel-based diagnostics. **Caterina Maccaferri**

15:18 Valutazione dei fattori predittivi di risposta alla terapia con JAK inibitori in pazienti adulti affetti da alopecia areata grave. **Federico Quadrelli**

15:30 Alopecia in patients with collagen VI-related myopathies: a novel/unrecognized scalp phenotype. **Francesca Pampaloni**

15:42 Dai contaminanti aerodispersi ai forever chemicals: metodi innovativi per la valutazione dell'esposizione a VOC e PFAS. **Rossana Comito** (*via Teams*)

15:54 Synthetic data generation and validation for health and biological sciences. **Adriano Zaghi**

16:30-17:30 Consegna Premi migliori poster - Aula Murri

17:30 Conclusione lavori e saluti finali

Coordinatori dei Corsi di Dottorato

Direttore del DIMEC

INFORMAZIONI

POSTER - DOTTORANDI DEL SECONDO ANNO

Troverete i poster stampati e le indicazioni su dove appenderti al sito della registrazione, che è aperto dalle 8.30 del 25/09. Ogni poster dovrà essere affisso nel pannello indicato. I poster rimarranno appesi dalle ore 9.00 del 25/9 fino alle ore 14.00 del 26/09. I poster non rimossi saranno eliminati.

Presenza dottorandi ai poster: 25 e 26 settembre dalle 13 alle 14.30 e 25 settembre dalle 16.45 alle 18.

I valutatori poster passeranno ai poster nei giorni 25 e 26 settembre dalle ore 13.30 alle 14.30.

DISCUSSIONE dei RISULTATI - DOTTORANDI DEL TERZO ANNO

I dottorandi avranno a disposizione 10 min per la discussione dei risultati + 2 min per rispondere alle domande. Le presentazioni devono essere caricate nel PC dell'aula 15 minuti prima dell'inizio della sessione. La presentazione può essere svolta in lingua italiana o inglese.

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- ➔ **Aula Piccinini** [Learn and share 2025 - Teams Aula Piccinini](#) | [Partecipazione alla riunione](#) | [Microsoft Teams](#)

Faculty

Prof. Niccolò Daddi, *Coordinatore del Corso di Dottorato in Scienze cardio-nefro-toraciche*

Prof. Igor Diemberger, *Coordinatore del Corso di Dottorato in Scienze e tecnologie della salute*

Prof.ssa Manuela Ferracin, *Coordinatrice del Corso di Dottorato in Oncologia, ematologia e patologia*

Prof.ssa Emanuela Marcelli, *Coordinatrice del Corso di Dottorato in Scienze chirurgiche e Tecnologie Innovative*

Prof.ssa Susi Pelotti, *Coordinatrice del Corso di Dottorato in Scienze mediche generali e scienze dei servizi*

Organizzazione:

Prof.ssa Miriam Capri
Dott.ssa Serena De Matteis
Dott.ssa Arianna Giorgetti
Dott. Marco Palanca
Dott. Filippo Pirani
Prof.ssa Lara Pisani
Prof. Carmine Pizzi
Prof.ssa Letizia Polito
Prof.ssa Donatella Romaniello
Prof.ssa Aurelia Santoro
Prof.ssa Sabrina Valente
Prof. Rocco Maurizio Zagari

Moderatori:

Prof.ssa Arianna Aceti
Prof. Maurizio Brigotti
Prof.ssa Miriam Capri
Prof. Fausto Catena
Prof. Luca Cristofolini
Prof. Antonio Curti
Prof. Fabio Dall'Olio
Dott.ssa Serena De Matteis
Prof. Gabriele D'Uva

Prof. Antonio Farina
Prof. Michelangelo Fiorentino
Dott.ssa Giulia Gallerani
Prof.ssa Angela Gambelunghe
Prof.ssa Caterina Garone
Prof.ssa Ivana Kurelac
Prof. Marcello Lanari
Prof.ssa Mattia Lauriola
Prof.ssa Tiziana Lazzarotto
Prof. Matteo Marchesini
Prof. Riccardo Masetti
Prof. Luca Morandi
Prof. Antonino Musolino
Prof.ssa Eva Negri
Dott. Marco Palanca
Prof. Massimiliano Palazzini
Prof.ssa Maria Chiara Pelleri
Prof.ssa Marianna Penzo
Prof.ssa Lara Pisani
Prof. Carmine Pizzi
Prof. Matteo Ravaioli
Prof. Stefano Salvioli
Prof.ssa Aurelia Santoro
Prof. Alessandro Silvani

Prof. Achille Tarsitano
Prof. Marco Viceconti
Prof. Rocco Maurizio Zagari

Valutatori Poster:

Prof.ssa Arianna Aceti
Prof. Paolo Boffetta
Prof.ssa Irene Capelli
Prof. Federico Chesani
Prof. Fabio Dall'Olio
Prof.ssa Angela Gambelunghe
Prof. Davide Gori
Prof.ssa Tiziana Lazzarotto
Dott.ssa Manuela Mancini
Prof.ssa Michela Mazzetti
Prof.ssa Jennifer Paola Pascali
Prof.ssa Lara Pisani
Prof. Carmine Pizzi
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