

1222-2022
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UNIVERSITÀ
DEGLI STUDI
DI PADOVA

University of Padua
PhD Courses
Medical and Biomedical Sciences

PhD STUDENT RESEARCH PROJECT DAY
MEDICAL AND BIOMEDICAL SCIENCES
(XXXVI Cycle)

Tuesday, July 5th, 2022

Old University
Archivio Antico
Palazzo del Bo

Via 8 Febbraio, 2 - 35122 Padova

Organized by
Prof.ssa Annalisa Angelini
Department of Cardiac Thoracic Vascular Sciences And Public Health



In collaboration with:
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A.R.C.A.
Associazione Ricerche Cardiopatie Aritmiche
Via A. Gabelli, 86
35121 Padova
sito web: <http://www.arca-cuore.it/>



8.45 OPENING CEREMONY

Prof. Massimiliano Zattin

*Prorettore con delega al Dottorato e al post lauream
Università degli Studi di Padova*

Prof. Leonard Jan Prins

*Coordinatore Consulta dei Coordinatori dei Corsi di
Dottorato di Ricerca, Università degli Studi di Padova*

Prof. Annalisa Angelini

*Coordinatore Corso di Dottorato di Ricerca
Medicina Specialistica Traslazionale "G.B. Morgagni
Università degli Studi di Padova*

9.10 ARCHIVIO ANTICO

Chairperson: Prof. Gianni Bisogno

ONCOHEMATOLOGY, MEDICAL GENETICS, RARE DISEASES AND PREDICTIVE MEDICINE

- **Lorenzo BADENETTI** – Tutors: Prof. Giorgio PERILONGO; Dr. Rosella TOMANIN; Prof. Enrico MORO
"EXPLORING WNT SIGNALING ALTERATIONS AND SYNAPTIC FUNCTION IN MUCOPOLYSACCHARIDOSIS TYPE II"
- **Isabella COMELLO** – Tutor: Prof. Silvia CARRARO
"Real-Life clinical effects of Lumacaftor and Ivacaftor in patients with Cystic Fibrosis"

- **Silvia LUCCHETTA** – Tutor: Prof. Gianni BISOGNO
"AUTOANTIBODY PROFILING IN EWING SARCOMA PATIENTS FOR TUMOR ASSOCIATED ANTIGENS UNVEILING"
- **Marco MARCHI** – Tutor: Prof. Leonardo SALVIATI
"Unravelling the role of human COQ4 in CoQ Biosynthesis"

HEALTH PLANNING SCIENCES

- **Laura PASTORI** – Tutor: Prof. Paola FACCHIN
"The impact of the new Perinatal Depression Program in the Veneto Region"

10.00 ARCHIVIO ANTICO

Chairperson: Prof. Riccardo Manganelli

BIOMEDICINE

- **Federico BIANCA** – Tutor: Prof. Stefano TOPPO
"FunTaxIS-Lite: A simple and light solution to investigate the functional taxonomy"
- **Marta CONFLITTI** – Tutor: Prof. Roberta PROVVEDI
"Functional characterization of G-quadruplex structures in *Mycobacterium tuberculosis*"
- **Ilaria MAURIZIO** – Tutor: Prof. Sara RICHTER
"Genome-wide mapping and selective targeting of G-quadruplex structures in *Mycobacterium tuberculosis*"
- **Giulia MIDENA** – Tutor: Prof. Veronica MACCHI
"NOT ALL WHO WANDERS IS LOST: LIQUID BIOPSY IN UVEAL MELANOMA"

- **Irene ZANIN** – Tutor: Prof. Sara RICHTER
"Investigation of CDK4 G4 interacting proteins in well-differentiated liposarcoma "

REGENERATIVE MEDICINE

- **Lorenzo ULLIANA** – Tutor: Prof. Stefano PICCOLO
"Design of hydrogels for mechanobiology "

11.00 COFFEE BREAK

11.30 ARCHIVIO ANTICO

Chairperson: Prof. Annalisa Angelini

BIostatISTICS AND CLINICAL EPIDEMIOLOGY

- **Daniele GIACOPELLI** – Tutor: Prof. Dario GREGORI
"Implantable Cardioverter Defibrillator Lead Performance: An Individual Patient Data Meta-Analysis "
- **Luca GIORDANO** – Tutor: Prof. Ileana BALDI
"ECMO risk scores: can we do better? "
- **Giorgia STOPPA** – Tutor: Prof. Dolores CATELAN
"Spatial distribution of mortality risk for ovarian cancer and asbestos exposure in Lombardy "

CARDIOVASCULAR SCIENCES

▪ **Laura DE MICHELI** – Tutor: Prof. Martina PERAZZOLO MARRA

"Cardiac amyloidosis: high sensitivity cardiac troponin I for risk stratification "

CLINICAL AND TRANSLATIONAL NEUROSCIENCES

▪ **Raffaele CERUTTI** – Tutor: Prof. Massimo ZEVIANI

"Administration of scAAV9-hNDUFS4 prevents Leigh disease of *Ndufs4^{-/-} mice*"

ENDOCRINE AND METABOLIC SCIENCES

▪ **Francesco Ivan AMENDOLAGINE** – Tutor: Prof. Gian Paolo FADINI

"Study of the autophagic flux related to diabetic stem cell mobilopathy "

THORACIC AND PULMONARY SCIENCES

▪ **Nicol BERNARDINELLO** – FIRST COAUTHOR:

Ibrahima BA - TUTOR: Prof. Paolo SPAGNOLO, Prof. Bruno CRESTANI, Dott. Caroline KANENGIESSER, Prof. Raphael BORIE

"Phenocopy and genetic inheritance in telomeropathies "

13.00 LUNCH

14.00 ARCHIVIO ANTICO

Chairperson: Prof. Nicola Ferri

ARCHIVIO

PHARMACOLOGY, TOXICOLOGY AND THERAPY

- **Luisa MACCARANI** – Tutor: Prof. Andrea ALIMONTI
"High-throughput screening to identify a novel Enzalutamide-combined therapy against Castration-Resistant Prostate Cancer "

14.10 ARCHIVIO ANTICO

Chairperson: Prof. Paolo Angeli

ARCHIVIO

CLINICAL METHODOLOGY, METABOLISM, ENDOCRINOLOGY, NEPHROLOGY AND EXERCISE

- **Alberto MONDIN** – Tutor: Prof. Caterina MIAN
"Effects of miR-21 silencing in Medullary Thyroid Carcinoma cell models "
- **Matteo RIGATO** – Tutor: Prof. Federico NALESSO
"Ultrasonographic Intraparenchymal Renal Resistive Index Variation in β -thalassemia patients "

ANTICO

HEPATOLOGY AND TRANSPLANTATION SCIENCES

- **Carmine Gabriele GAMBINO** – Tutor: Prof. Salvatore Silvio PIANO
"Diagnostic and prognostic role of urinary Neutrophil Gelatinase-associated Lipocalin in patients with cirrhosis and acute kidney injury "

MULTIDISCIPLINARY APPROACH TO RARE DISEASES

▪ **Monica CHINELLATO** – Tutor: Prof. Patrizia PONTISSO

"Development of antibody fragments for diagnostic applications in rare tumors exploiting SERPINB3 as a novel marker"

▪ **Luca SGARABOTTO** – Tutor: Prof. Lorenzo A. CALÒ
"IMPAIRED ACE2 GLYCOSYLATION AND PROTEASE ACTIVITY LOWERS SUSCEPTIBILITY TO SARS-COV-2 INFECTION IN GITELMAN/BARTTER SYNDROMES"

RHEUMATOLOGICAL AND LABORATORY SCIENCES

▪ **Sara BINDOLI** – Tutor: Prof. Paolo SFRISO
"SARS-COV-2 COURSE AND OUTCOME IN PATIENTS WITH SYSTEMIC AUTOINFLAMMATORY DISEASES TREATED WITH ANTI IL-1 DRUGS"

15.00 ARCHIVIO ANTICO

Chairperson: Prof. Stefano Indraccolo

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CLINICAL AND EXPERIMENTAL ONCOLOGY AND IMMUNOLOGY

▪ **Irene BERTAZZOLO** – Tutor: Prof. Vincenzo CIMINALE; COTUTOR: Dr. Loredana URSO

"HARNESSING REDOX HOMEOSTASIS AND CELL DEATH PATHWAYS FOR TARGETING PEDIATRIC T-CELL ACUTE LYMPHOBLASTIC LEUKEMIA (T-ALL)"

▪ **Antonio COLLESEI** – Tutor: Prof. Stefano INDRACCOLO, Prof. Fabio VANDIN, Dr. Francesca SCHIAVI

"Investigating causal pathways in Breast cancer subtypes exploiting the "actionable" potential of somatic mutations"

▪ **Alessandro DAL MASO** – Tutor: Prof. Valentina GUARNERI

"Liver kinase B1 and phosphorylated AMP kinase expression in small cell lung cancer: association with prognosis and tumour immune microenvironment features"

▪ **Federica MIGLIETTA** – Tutor: Prof. Valentina GUARNERI

"A prognostic model for overall survival based on residual cancer burden and tumor-infiltrating lymphocytes on residual disease (RCB-TIL composite score) in HER2+ breast cancer patients treated with anti-HER2-based neoadjuvant treatment: a multicenter study"

- **Alessandro PENNA** – Tutor: Prof. Antonio ROSATO
'CARPE D1EM - CAR-T cells anti-hPSMA endowed with dominant negative truncated high-affinity PD1 molecule: a new immunostrategy''
- **Francesco PIERANTONI** – Tutor: Prof. Vittorina ZAGONEL
'Clinical relevance of molecular biomarkers in urothelial carcinomas treated with chemotherapy, immunotherapy or targeted therapies''
- **Mario Domenico RIZZATO** – Tutor: Prof. Sara LONARDI
'Extensive molecular characterization for prognostic and predictive translational analyses in advanced Biliary Tract Cancers''
- **Ada TUSHE** – Tutor: Prof. Susanna MANDRUZZATO
'Development of a novel nanomedicine approach to restore the anti-tumor activity of the immune system in glioblastoma patients''

16.00 CLOSING REMARKS

PHD COURSES (XXXVI CYCLE)

1. ARTERIAL HYPERTENSION AND VASCULAR BIOLOGY

Coordinator: Professor Gian Paolo ROSSI

2. CLINICAL AND EXPERIMENTAL ONCOLOGY AND IMMUNOLOGY

Coordinator: Professor Stefano INDRACCOLO

3. CLINICAL AND EXPERIMENTAL SCIENCES

Coordinator: Professor Paolo ANGELI

Curriculum:

- Clinical Methodology, Metabolism, Endocrinology, Nephrology and Exercise
- Hematological and Geriatric Sciences
- Hepatology and Transplantation Sciences
- Multidisciplinary approach to rare diseases
- Rheumatological and Laboratory Sciences

4. DEVELOPMENTAL MEDICINE AND HEALTH PLANNING SCIENCES

Coordinator: Professor Gianni BISOGNO

Curriculum:

- Oncohematology, Medical Genetics, Rare Diseases and Predictive Medicine
- Health Planning Sciences

PHD COURSES (XXXVI CYCLE)

5. MOLECULAR MEDICINE

Coordinator: Professor Riccardo MANGANELLI

Curriculum:

- Biomedicine
- Regenerative Medicine

6. PHARMACOLOGICAL SCIENCES

Coordinator: Professor Nicola FERRI

Curriculum:

- Molecular and Cellular Pharmacology
- Pharmacology, Toxicology and Therapy

7. TRANSLATIONAL SPECIALISTIC MEDICINE "G.B. MORGAGNI"

Coordinator: Professor Annalisa ANGELINI

Curriculum:

- Biostatistics and Clinical Epidemiology
- Cardiovascular Sciences
- Clinical and Translational Neurosciences
- Endocrine and Metabolic Sciences
- Thoracic and Pulmonary Sciences