



UNIVERSITÀ
DEGLI STUDI
DI PADOVA

University of Padua

PhD Courses

Medical and Biomedical Sciences

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

Thursday, June 27, 2019

**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**

9.00 **ARCHIVIO ANTICO**

Chairperson: Prof. Annalisa Angelini

BIostatistics and Clinical Epidemiology

- **Daniele BOTTIGLIENGO** – Tutor: Prof. Dario GREGORI
"DEVELOPMENT OF PREDICTIVE MODELS IN MULTICENTER STUDIES: A MACHINE LEARNING APPROACH"

CARDIOTHORACIC AND VASCULAR SCIENCES

- **Massimiliano CARROZZINI** – Tutors: Prof. Gino GEROSA; Prof. Annalisa ANGELINI
"SURGICAL TREATMENT OF ADVANCED HEART FAILUR"
- **Alberto CIPRIANI** – Tutor: Prof. Barbara BAUCE, Prof. Martina PERAZZOLO MARRA
"LEFT VENTRICULAR PHENOTYPE IN ARRHYTHMOGENIC CARDIOMYOPATHY: PREVALENCE AND DIFFERENTIAL DIAGNOSIS WITH DILATED CARDIOMYOPATHY"
- **Gianpiero D'AMICO** – Tutor: Prof. Giuseppe TARANTINI
"COMBINED PERCUTANEOUS EDGE-TO-EDGE MITRAL VALVE REPAIR AND LEFT ATRIAL APPENDAGE OCCLUSION"
- **Chiara TESSARI** – Tutor: Prof. Laura IOP
"AORTIC VALVE REPLACEMENT: A PATHWAY TOWARD EXCELLENCE"

ENDOCRINE AND METABOLIC SCIENCES

- **Benedetta Maria BONORA** – Tutor: Prof. Gian Paolo FADINI
"EFFECTS OF FENOFIBRATE ON CIRCULATING STEM AND ENDOTHELIAL PROGENITOR CELLS IN PATIENTS WITH DIABETES AND RETINOPATHY - A RANDOMIZED PLACEBO-CONTROLLED TRIAL"

- **Marianna D'ANNA** – Tutor: Prof. Gian Paolo FADINI
"DIABETES MELLITUS REDUCES THE LEVELS OF CIRCULATING PROANGIOGENIC NEUTROPHILS"
- **Marta MAZZUCATO** – Tutor: Prof. Angelo AVOGARO
"CIRCULATING miRNAs AS CARDIOVASCULAR BIOMARKERS IN TYPE 2 DIABETES"

NEUROSCIENCE

- **Marta CAMPAGNOLO** – Tutor: Prof. Chiara BRIANI
"WILD-TYPE TRANSTHYRETIN AMYLOIDOSIS: CLINICAL, NEUROPHYSIOLOGICAL, IMAGING AND PATHOLOGICAL PROFILE"
- **Chenglei FAN** – Tutor: Prof. Elena PEGORARO
"EFFECT OF AGE ON THE MUSCLE SPINDLE IN TRICEPS SURAE AND THORACOLUMBAR FASCIA IN MOUSE"
- **Paolo MENEGUZZO** – Tutor: Prof. Chiara BRIANI
"EXECUTIVE FUNCTIONS IN ANOREXIA NERVOSA: ALTERATIONS IN MATURATION TRAJECTORIES"
- **Beatrice MERLO** – Tutor: Prof. Elena PEGORARO
"MITOCHONDRIAL IMPLICATIONS IN CORE MYOPATHIES"

11.00 COFFEE BREAK

11.30 **ARCHIVIO ANTICO**

Chairperson: Prof. Annalisa Angelini

NEUROSCIENCE

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- **Giovanni PELLEGRINO** – Tutor: Prof. Gino MARIONI
"CORTICAL GAMMA-SYNCHRONY MEASURED WITH MAGNETOENCEPHALOGRAPHY IS A MARKER OF CLINICAL STATUS AND PREDICTS CLINICAL OUTCOME IN STROKE SURVIVORS"
- **Beatrice ROITER** – Tutor: Prof. Annalisa ANGELINI
"PHARMACOGENETIC TESTING IN A REAL-WORLD SAMPLE OF INPATIENTS WITH DEPRESSION: PRELIMINARY RESULTS"

11.50 **ARCHIVIO ANTICO**

Chairperson: Prof. Stefano Piccolo

BIOMEDICINE

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- **Giulia BERNABE'** – Tutor: Prof. Ignazio CASTAGLIUOLO
"MICROBIAL QUORUM SENSING SYSTEM: A TARGET FOR TREATMENT OF METHICILLIN-RESISTANT STAPHYLOCOCCUS AUREUS INFECTIONS"
- **Chiara BERTAGNIN** – Tutor: Prof. Arianna LOREGIAN
"DISRUPTION OF PROTEIN-PROTEIN INTERACTIONS AS A NEW ANTIVIRAL STRATEGY AGAINST INFLUENZA VIRUS AND HUMAN PAPILLOMAVIRUS"
- **Valeria CONCIATORI** – Tutor: Prof. Arianna CALISTRI
"GENERATION AND CHARACTERIZATION OF NEW HSV1-BASED ONCOLYTIC VIRUSES TOWARDS AN INNOVATIVE THERAPEUTIC APPROACH FOR TRIPLE NEGATIVE BREAST CANCER (TNBC)"

- **Mattia MIRANDOLA** – Tutor: Prof. Arianna CALISTRI
"VESICULAR STOMATITIS VIRUS PSEUDOTIPIZATION WITH CRIMEAN-CONGO HEMORRHAGIC FEVER VIRUS GLYCOPROTEINS AND ITS POTENTIAL APPLICATION"

REGENERATIVE MEDICINE

- **Mattia ARBOIT** – Tutor: Prof. Graziano MARTELLO
"A COMPUTATIONAL APPROACH FOR RECONSTRUCTION OF THE HUMAN PLURIPOTENCY GENE REGULATORY NETWORK"
- **Martina CONTRAN** – Tutor: Prof. Maria Teresa CONCONI
"CHARACTERIZATION OF THE BIOLOGICAL AND STRUCTURAL PROPERTIES OF CHEMICALLY MODIFIED POLYVINIL ALCOHOL AS A SCAFFOLD FOR TISSUE REGENERATION: AN IN VITRO AND IN VIVO STUDY"
- **Camilla Maria FONTANA** – Tutor: Prof. Luisa DALLA VALLE
"THE ROLE OF AUTOPHAGIC-RELATED PROTEINS AMBRA1 AND EPG5 IN THE GONADAL DEVELOPMENT, GAMETOGENESIS AND REPRODUCTION OF ZEBRAFISH"
- **Gemma MADDALO** – Tutor: Prof. Fabio FARINATI
"ROLE OF MIRNAS IN GASTRIC ATROPHY, AUTOIMMUNITY AND DISEASE PROGRESSION"

13.10 LUNCH

14.00 ARCHIVIO ANTICO

Chairperson: Prof. Alessandra Murgia

ONCOHEMATOLOGY, MEDICAL GENETICS, RARE DISEASES AND PREDICTIVE MEDICINE

▪ **Maria Cristina ASPROMONTE** – Tutor: Prof. Alessandra MURZIA

"TARGETED NGS FOR THE DIAGNOSIS OF CHILDHOOD MOVEMENT DISORDERS AND CEREBRAL PALSY"

▪ **Maddalena BENETTON** – Tutor: Prof. Martina PIGAZZI

"THE MOLECULAR LANDSCAPE OF PEDIATRIC ACUTE MYELOID LEUKEMIA: FROM GENES TO THERAPY"

▪ **Giada BIDDECI** – Tutors: Proff. Alessandra BIFFI, Maria Caterina PUTTI

"OSTEONECROSIS IN CHILDREN AND ADOLESCENTS WITH ACUTE LYMPHOBLASTIC LEUKEMIA: EARLY DIAGNOSIS AND NEW TREATMENT STRATEGIES"

▪ **Luca BONADIES** – Tutor: Prof. Eugenio BARALDI

"INTRATRACHEAL ADMINISTRATION OF MESENCHYMAL STROMAL-CELL-DERIVED EXTRACELLULAR VESICLES REDUCES LONG TERM LUNG INJURY IN A RAT MODEL OF BRONCHOPULMONARY DYSPLASIA"

▪ **Valentina Agnese FERRARO** – Tutor: Prof. Silvia CARRARO

"AIRWAY-ARTERY QUANTITATIVE ASSESSMENT IN CHILDREN WITH PRIMARY CILIARY DYSKINESIA USING CHEST COMPUTED TOMOGRAPHY"

▪ **Edoardo MAGHIN** – Tutor: Proff. Piergiorgio GAMBA, Martina PICCOLI

"STUDY OF EXTRACELLULAR MATRIX IN HEALTHY AND PATHOLOGICAL CONDITION"

HEALTH PLANNING SCIENCES

▪ **Francesca GALUPPINI** – Tutor: Prof. Paola FACCHIN

"DIFFERENTIATED THYROID CARCINOMA IN PEDIATRIC AGE: GENETIC AND CLINICAL SCENARIO"

15.10 ARCHIVIO ANTICO

Chairperson: Prof. Paolo Angeli

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CLINICAL METHODOLOGY, METABOLISM, ENDOCRINOLOGY, NEPHROLOGY AND EXERCISE

- **Chiara SABBADIN** – Tutor: Prof. Caterina MIAN
"PROTECTIVE EFFECT OF LICORICE ON DAPSONE-HYDROXYLAMINE-INDUCED MEMBRANE ALTERATIONS IN RED BLOOD CELLS FROM PATIENTS WITH ENDOMETRIOSIS"

RHEUMATOLOGICAL AND LABORATORY SCIENCES

- **Mara FELICETTI** – Tutor: Prof. Paolo SFRISO
"PRESENTATION AND OUTCOMES BETWEEN 2000-2010 AND 2011-2018 DECADES IN GRANULOMATOSIS WITH POLYANGITIS AND MICROSCOPIC POLYANGIITIS: A 20 YEARS FOLLOW UP MONOCENTRIC STUDY"

HEMATOLOGICAL AND GERIATRIC SCIENCES

- **Elisabetta COSI** – Tutor: Prof. Maria Luigia RANDI
"IDIOPATHIC AND CONGENITAL ERYTHROCYTOSIS: STUDY OF A LARGE COHORT OF PATIENTS"
- **Caterina TREVISAN** – Tutor: Prof. Enzo MANZATO, Giuseppe SERGI
"THE IMPACT OF ACCIDENTAL FALLS ON HEALTH-RELATED OUTCOMES IN COMMUNITY-DWELLING OLDER ADULTS"

16.10 COFFEE BREAK

16.30 **ARCHIVIO ANTICO**

Chairperson: Prof. Nicola Ferri

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PHARMACOLOGICAL, TOXICOLOGY AND THERAPY

- **Maria Giovanna LUPO** - Tutor: Prof. Nicola FERRI
"PCSK9 INDUCES SMOOTH MUSCLE CELL-MEDIATED CALCIFICATION: IN VITRO AND IN VIVO EVIDENCES"

16.40 **ARCHIVIO ANTICO**

Chairperson: Prof. Paolo Bernardi

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BIOMEDICAL SCIENCE

- **Alessandro GRINZATO** - Tutor: Prof. Giuseppe ZANOTTI
"CRYOEM ATOMIC STRUCTURE OF POTATO VIRUS X"
- **Mislav MAJNARIĆ** – Tutor: Dr. Giorgio CARMIGNOTO
"NEURON-GLIA INTERACTIONS IN NEUROVASCULAR COUPLING"

17.00 **ARCHIVIO ANTICO**

Chairperson: Prof. Paola Zanovello

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CLINICAL AND EXPERIMENTAL ONCOLOGY AND IMMUNOLOGY

- **Gregorio BARILA'** - Tutor: Prof. Gianpietro SEMENZATO
"STAT3 MUTATIONS IMPACTS ON OVERALL SURVIVAL OF T-CELL LARGE GRANULAR LYMPHOCYTE LEUKEMIA PATIENTS"
- **Andrea BOSCOLO BRAGADIN** - Tutor: Dr. Stefano INDRACCOLO
"LIQUID BIOPSY TO MONITOR RESPONSE TO TREATMENT IN ADVANCED NON-SMALL CELL LUNG CANCER PATIENTS"

- **Vanessa Rebecca GASPARINI** - Tutor: Prof. Gianpietro SEMENZATO
"A FIRST HIGH-DEFINITION LANDSCAPE OF SOMATIC MUTATIONS IN CHRONIC LYMPHOPROLIFERATIVE DISORDER OF NK CELLS"
- **Sara MAGRI** - Tutor: Prof. Susanna MANDRUZZATO
"ROLE OF IRON METABOLISM IN TUMOR-INFILTRATING MACROPHAGES FROM GLIOBLASTOMA PATIENTS"
- **Alessandro MORLACCO** - Tutor: Prof. Giacomo NOVARA
"DETECTION RATE OF MPMRI/TRANSRECTAL US FUSION BIOPSY FOR THE DIAGNOSIS OF PROSTATE CANCER IN BIOPSY-NAÏVE PATIENTS"
- **Saveria TROPEA** - Tutor: Prof. Carlo Riccardo ROSSI
"CLOCK GENES POLYMORPHISMS AS PREDICTORS OF RISK AND PROGNOSIS IN PATIENTS WITH SOFT TISSUE SARCOMAS"
- **Giulia TROVARELLI** - Tutor: Prof. Pietro RUGGIERI
"STUDY ON PERITUMORAL MICROENVIRONMENT OF CHONDROSARCOMA"

18.10 CLOSING REMARKS

1. BIOMEDICAL SCIENCE

Coordinator: Professor Paolo BERNARDI

2. CLINICAL AND EXPERIMENTAL ONCOLOGY AND IMMUNOLOGY

Coordinator: Professor Paola ZANOVELLO

3. CLINICAL AND EXPERIMENTAL SCIENCES

Coordinator: Professor Paolo ANGELI

Curriculum:

- Clinical Methodology, Metabolism, Endocrinology, Nephrology and Exercise
- Rheumatological and Laboratory Sciences
- Hematological and Geriatric Sciences
- Hepatology and Transplantation Sciences

4. DEVELOPMENTAL MEDICINE AND HEALTH PLANNING SCIENCES

Coordinator: Professor Carlo GIAQUINTO

Curriculum:

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

5. MOLECULAR MEDICINE

Coordinator: Professor Stefano PICCOLO

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 Traslational Neurosciences
- Endocrine and Metabolic Sciences
- Thoracic and Pulmonary Sciences