



UNIVERSITÀ
DEGLI STUDI
DI PADOVA

University of Padua
PhD Courses
Medical and Biomedical Sciences

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

Tuesday, September 3rd, 2024

**Old University
Archivio Antico – Aula Magna
Palazzo del Bo**

Via 8 Febbraio, 2 - 35122 Padova

Link zoom:

AULA MAGNA:

<https://us06web.zoom.us/j/88428047076?pwd=axQkkG01Ro0ausvntERW2sixbanfai.1>

ID riunione: 884 2804 7076 - Codice d'accesso: 988782

ARCHIVIO ANTICO:

<https://unipd.zoom.us/j/86406849695?pwd=E8AnEFKdbnQw8XaooxQZgKfP1vutI5.1>

ID riunione: 864 0684 9695 - Codice d'accesso: 386483

The abstract book is available at the following link:
<https://phdmorgagni.dctv.unipd.it/phd/index.php>

Organized by

Prof. Dario Gregori

Department of Cardiac Thoracic Vascular Sciences and Public Health



In collaboration with:

Alessandra Cervellin

*Department of Cardiac Thoracic Vascular
Sciences and Public Health*

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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

*Vice Rector for Postgraduate and Doctorate Programmes
University of Padua*

Prof. Dario Gregori

Coordinator PhD Course

*Translational Specialistic Medicine "G.B. Morgagni"
University of Padua*

9:00 AULA MAGNA

Chairperson: Prof. Dario Gregori

BIostatistics and Clinical Epidemiology

▪ **Maria Vittoria CHIARUTTINI** – Tutor: Prof. Dario GREGORI – Co-Tutor: Prof. Giulia LORENZONI

"WIN STATISTICS IN OBSERVATIONAL CANCER RESEARCH: INTEGRATING CLINICAL AND QUALITY-OF-LIFE OUTCOMES"

▪ **Noor MUHAMMAD KHAN** – Tutor: Prof. Dario GREGORI – Co-Tutor: Prof. Giulia LORENZONI

"MONITORING PATIENT REPORTED OUTCOMES AND LIFESTYLES BY INTEGRATING CLINICAL RECORDS WITH DIGITAL AND SOCIAL MEDIA DATA"

CARDIOVASCULAR SCIENCES

▪ **Alvise GUARIENTO** – Tutor: Prof. Vladimiro VIDA – Co-Tutor: Prof. Annalisa ANGELINI

"BIODEGRADABLE EXTRA-VASCULAR SUPPORT FOR CARDIOVASCULAR SURGERY INVOLVING VALVAR GRAFTS IN PEDIATRIC PATIENTS"

▪ **Diego PERAZZOLO** – Tutor: Prof. Chiara CASTELLANI – Co-Tutor: Prof. Pietro FANTON

"AUGPRED AND COMPLEX NETWORK ANALYSIS APPROACH FOR ENHANCING HEART TRANSPLANT FOLLOW-UP"

- **Induja PERUMAL VANAJA** – Tutor: Prof. Tania ZAGLIA – Co-Tutor: Prof. Marco MONGILLO
"CARDIAC SYMPATHETIC NEURONS ARE ADDITIONAL CELLS AFFECTED IN GENETICALLY DETERMINED ARRHYTHMOGENIC CARDIOMYOPATHY"
- **Serena PINCI** – Tutor: Prof. Kalliopi PILICHOU – Co-Tutor: Prof. Rudy CELEGHIN
"COMPREHENSIVE ANALYSIS OF DESMOGLEIN-2 VARIANTS IN ARRHYTHMOGENIC CARDIOMYOPATHY: INSIGHTS FROM GENOMIC DATA, FAMILY SCREENING, AND CELLULAR MODELS"
- **Giulio SINIGIANI** – Tutor: Prof. Alberto CIPRIANI – Co-Tutor: Prof. Martina PERAZZOLO MARRA
"RIGHT VENTRICULAR TO PULMONARY ARTERY UNCOUPLING IS AN EARLY PREDICTOR OF POOR OUTCOME IN WILD-TYPE TRANSTHYRETIN AMYLOID CARDIOMYOPATHY"

CLINICAL AND TRANSLATIONAL NEUROSCIENCES

- **Joseph-Domenico GABRIELI** – Tutor: Prof. Elena PEGORARO – Co-Tutor: Prof. Renzo MANARA
"NEUROLOGICAL CLINICAL OUTCOME FOLLOWING OCCLUSION OR OCCLUSION TEST OF CEREBRAL AFFERENT VESSELS"
- **Pietro RIGUZZI** – Tutor: Prof. Elena PEGORARO – Co-Tutor: Prof. Michela GUGLIERI
*"NEUROMUSCULAR DISORDERS" – **ONLINE***

9:00 ARCHIVIO ANTICO

Chairperson: Prof. Michela Pozzobon

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ONCOHEMATOLOGY, MEDICAL GENETICS, RARE DISEASES AND PREDICTIVE MEDICINE

▪ **Agner Henrique DORIGO HOCHULI** – Tutor: Prof. Michela POZZOBON

"ENGINEERED EXTRACELLULAR VESICLES LOADED WITH MICRORNA-31 AS THERAPY FOR INFLAMMATORY BOWEL DISEASES"

9:10 ARCHIVIO ANTICHO

Chairpersons: Prof. Rocchina Colucci, Prof. Nicola Ferri

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PHARMACOLOGY, TOXICOLOGY AND THERAPEUTICS

▪ **Dilek CELIK** – Tutor: Prof. Nicola FERRI – Co-Tutor: Prof. Caterina TREVISAN

"POLYMEDICATION AND MULTIMORBIDITY PATTERNS OF ATRIAL FIBRILLATION PATIENTS USING LATENT CLASS ANALYSIS AND THEIR ASSOCIATION WITH THROMBOEMBOLIC EVENTS, BLEEDING, AND FALLS"

▪ **Alberto DE STEFANI**– Tutor: Prof. Antonio Luigi GRACCO

"PAIN ASSESSMENT IN PEDIATRIC PATIENTS UNDERGOING ORTHODONTIC THERAPY WITH RAPID PALATAL EXPANDER"

▪ **Ana Letícia JULIO DE SOUZA** – Tutor: Prof. Rocchina COLUCCI

"HIGH-FAT DIET INDUCED OBESITY AS A PREDISPOSAL FACTOR TO PARKINSON DISEASE VIA INTERPLAY BETWEEN INFLAMMATION AND AUTOPHAGY"

MOLECULAR AND CELLULAR PHARMACOLOGY

- **Ilenia ZANOTTO** – Tutor: Prof. Sara DE MARTIN – Co-Tutor: Prof. Gianfranco PASUT
"PD-L1 TARGETED LIPOSOMAL DOXORUBICIN EXERTS AN IMMUNOMODULATORY ROLE AND REDUCES INVASIVENESS OF HEPATOCELLULAR CARCINOMA"

10:00 ARCHIVIO ANTICHO

Chairperson: Prof. Roberta Ramonda

CLINICAL METHODOLOGY, METABOLISM, ENDOCRINOLOGY, NEPHROLOGY AND EXERCISE

- **Pampa PAIN** – Tutor: Prof. Roberto VETTOR – Co-Tutors: Proff. Rosario RIZZUTO, Gaia GHERARDI
"THE ROLE OF MITOCHONDRIAL CATION CHANNELS IN THE CONTROL OF LUNG EPITHELIAL INFLAMMATION"
- **Anna PILATONE** – Tutor: Dr. Gabriella MILAN – Co-Tutor: Prof. Roberto VETTOR, Prof. Luca Busetto
"ADIPOGENESIS AND ADIPOCYTE METABOLISM: A FOCUS ON PROTEIN KINASE CK2"
- **Irene TIZIANEL** – Tutor: Prof. Filippo CECCATO
"PREVALENCE OF METABOLIC-ASSOCIATED FATTY LIVER DISEASE IN PATIENTS WITH PRIMARY ALDOSTERONISM"
- **Giacomo VOLTAN** – Tutor: Prof. Filippo CECCATO
"INTERPLAY BETWEEN SKELETAL AND CARDIOVASCULAR HEALTH IN ENDOGENOUS CUSHING'S SYNDROME"

11:00 COFFEE BREAK

11:30 AULA MAGNA

Chairperson: Prof. Dario Gregori

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THORACIC AND PULMONARY SCIENCES

- **Giorgio CANNONE** – Tutor: Prof. Andrea DELL'AMORE – Co-Tutors: Proff. Marco SCHIAVON, Fiorella CALABRESE
"ISCHEMIC REPERFUSION INJURY ON PULMONARY GRAFT FOR THERAPEUTIC TRANSPLANTATION PRESERVED WITH CONTINUOUS NORMOTHERMIC PERFUSION TECHNIQUE: A SWINE MODEL"
- **Maria CONTI** – Tutor: Prof. Graziella TURATO – Co-Tutor: Prof. Erica BAZZAN
"USE OF THE CELLULAR CULTURES AND FLOW CYTOMETRY FOR THE STUDY OF CHRONIC LUNG DISEASES: A TRANSLATIONAL RESEARCH PROJECT"

11:30 ARCHIVIO ANTICO

Chairperson: Prof. Roberta Ramonda

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HEMATOLOGICAL AND GERIATRIC SCIENCES

- **Chiara CEOLIN** – Tutor: Prof. Giuseppe SERGI
*"OSTEOSARCOPENIA: EARLY DIAGNOSIS MODELS AND DISABILITY PREVENTION" – **ONLINE***
- **Anna CERBO** – Tutor: Dr. Antonella BERTOMORO – Co-Tutor: Prof. Alberto FERLIN
"A DIAGNOSTIC APPROACH TO IMPROVE THE IDENTIFICATION OF INHERITED THROMBOCYTOPENIAS IN A COHORT OF ADULT PATIENTS"
- **Chiara SIMION** – Tutor: Prof. Elena CAMPELLO
"PHYSIOPATHOLOGY OF VENOUS THROMBOEMBOLISM IN PATIENTS WITH HYPERCOAGULABLE STATE RELATED TO INHERITED AND ACQUIRED THROMBOPHILIAS AND CLINICAL IMPLICATIONS"

- **Serena TOFFANIN** – Tutor: Prof. Cristiana BULATO – Co-Tutor: Prof. Paolo SIMIONI
"NEW PROTHROMBIN VARIANT ASSOCIATED WITH THROMBOPHILIA"

HEPATOLOGY AND TRANSPLANTATION SCIENCES

- **Riccardo Maria DE CARLIS** – Tutor: Prof. Umberto CILLO
"ARE THERE ANY BENEFITS OF PROLONGED HYPOTHERMIC OXYGENATED PERFUSION OF THE LIVER GRAFTS FOR TRANSPLANTATION? RESULTS FROM A MULTICENTRIC STUDY"
- **Simone INCICCO** – Tutor: Prof. Paolo ANGELI – Co-Tutor: Prof. Salvatore PIANO
"URINARY BIOMARKERS OF TUBULAR AND GLOMERULAR DAMAGE PREDICT RENAL RECOVERY IN PATIENTS WITH HEPATORENAL SYNDROME-ACUTE KIDNEY INJURY"

11:50 AULA MAGNA

Chairperson: Prof. Teresa Maria Seccia

ARTERIAL HYPERTENSION AND VASCULAR BIOLOGY

- **Eleonora BERTOLI** – Tutor: Prof. Gian Paolo ROSSI
"STATIC BALANCE AND SENSORY NERVE CONDUCTION IN PATIENTS WITH PRIMARY ALDOSTERONISM: CASE-CONTROL, PROSPECTIVE STUDY"
- **Giulio CABRELLE** – Tutor: Prof. Raffaella MOTTA – Co-Tutor: Prof. Filippo CRIMI'
"CONGESTION GUIDED HEMODIALYSIS: A RANDOMIZED ASSESSMENT"
- **Maria Ludovica COSTANZO** – Tutor: Prof. Giancarlo D'AMBROSIO – Co-Tutors: Prof. Vito D'ANDREA, Prof. Claudio LETIZIA
"ETIOPATHOGENETIC CLASSIFICATION OF ABDOMINAL AORTIC ANEURYSMS: NEW DISCOVERIES AND EVOLVING CONCEPTS" –
ONLINE

- **Gianmarco SCOCCIA** – Tutor: Prof. Susanna SCIOMER
"RIGHT VENTRICLE TO PULMONARY ARTERY COUPLING IN ACUTE HEART FAILURE PATIENT AND ITS IMPLICATION IN INTENSIVE CARDIAC CARE UNIT" – **ONLINE**
- **Chiara ZANON** – Tutor: Prof. Gian Paolo ROSSI
"MULTIMODALITY IMAGING FOR DIFFERENTIATION BETWEEN ADRENAL ALDOSTERONE-PRODUCING ADENOMA AND NOT-SECRETING ADENOMA IN PRIMARY ALDOSTERONISM PATIENTS"

12:40 ARCHIVIO ANTICO

Chairpersons: Prof. Anna Urciuolo, Prof. Arianna Loregian

REGENERATIVE MEDICINE

- **Sara LETRARI** – Tutor: Prof. Ignazio CASTAGLIUOLO – Co-Tutor: Prof. Massimo BELLATO
"APPLYING SYNTHETIC BIOLOGY TOOLS TO FIGHT ANTIMICROBIAL RESISTANCE"

13:00 LUNCH

14:30 AULA MAGNA

Chairpersons: Prof. Bert Blaauw, Prof. Ornella Rossetto

BIOMEDICAL SCIENCES

- **Francesca SPINELLI** – Tutor: Prof. Anna RAFFAELLO – Co-Tutor: Prof. Gaia GHERARDI
"THE ROLE OF MITOCHONDRIAL CATIONS HOMEOSTASIS IN THE CONTROL OF THE INFLAMMATORY RESPONSE"
- **Marica ZAINOTTO** – Tutor: Prof. Marco PIRAZZINI – Co-Tutors: Prof. Ornella ROSSETTO, Dr. Mickaël

14:30 ARCHIVIO ANTICO

Chairpersons: Prof. Anna Urciuolo, Prof. Arianna Loregian

BIOMEDICINE

- **Alessandro BAZZACCO** – Tutor: Prof. Arianna LOREGIAN – Co-Tutor: Prof. Beatrice MERCORELLI
"DEVELOPMENT AND CHARACTERIZATION OF NOVEL ANTIVIRALS AGAINST CORONAVIRUSES"
- **Laura MANUTO** – Tutor: Prof. Enrico LAVEZZO – Co-Tutor: Prof. Stefano TOPPO
"CHARACTERIZATION OF MICROBIOME, VIROME AND HOST IMMUNE RESPONSE IN INFLAMMATORY DISEASES OF THE GASTROINTESTINAL TRACT"
- **Giorgia MAZZOTTI** – Tutor: Prof. Stefano TOPPO – Co-Tutor: Prof. Enrico LAVEZZO
"VIRNA: INVESTIGATING VIRAL CONTAGION PATTERNS VIA DIRECTED MINIMUM SPANNING NETWORKS"
- **Margherita SARTORI** – Tutor: Prof. Enrico LAVEZZO – Co-Tutors: Proff. Stefano TOPPO, Valentina BOSELLO
"IDENTIFICATION OF A NEW NON-CANONICAL STRUCTURE IN THE GENOME OF MYCOBACTERIUM TUBERCULOSIS"
- **Davide SORZE** – Tutor: Prof. Riccardo MANGANELLI – Co-Tutor: Prof. Roberta PROVVEDI
"INVESTIGATING THE ROLE OF THE PROTEIN LYSX2 OF MYCOBACTERIUM TUBERCULOSIS"
- **Sara TUCI** – Tutor: Prof. Arianna LOREGIAN – Co-Tutor: Prof. Beatrice MERCORELLI
"IDENTIFICATION OF ANTI-FLAVIVIRUS ACTIVITY OF APPROVED ANTIFUNGAL DRUGS BY A DRUG REPURPOSING APPROACH"

14:50 AULA MAGNA

Chairperson: Prof. Antonio Rosato

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CLINICAL AND EXPERIMENTAL ONCOLOGY AND IMMUNOLOGY

- **Michele BOTTOSSO** – Tutor: Prof. Maria Vittoria DIECI
– Co-Tutor: Dr. Gaia GRIGUOLO
"CLINICAL IMPACT AND BIOLOGICAL CHARACTERIZATION OF BREAST CANCER-RELATED BRAIN METASTASES"
- **Guido CAPASSO** – Tutor: Prof. Livio TRENTIN – Co-Tutor: Dr. Federica FREZZATO
"NEW INSIGHTS INTO THE RELATIONSHIP BETWEEN p53 AND FAK PROTEINS IN CLL"
- **Giulia CERRETTI** – Tutor: Prof. Stefano INDRACCOLO
– Co-Tutor: Dr. Giuseppe LOMBARDI
"CORRELATION BETWEEN TREATMENT WITH BEVACIZUMAB AND TISSUE MOLECULAR ALTERATIONS IN MENINGIOMA AND GLIOMA"
- **Arezoo DARBANDI** – Tutor: Prof. Vincenzo CIMINALE
– Co-Tutor: Prof. Donna M. D'AGOSTINO
"TARGETING HTLV-1-TRANSFORMED CELLS VIA MODULATION OF REDOX BALANCE"

15:50 ARCHIVIO ANTICO

Chairperson: Prof. Gianni Bisogno

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ONCOHEMATOLOGY, MEDICAL GENETICS, RARE DISEASES AND PREDICTIVE MEDICINE

- **Claudia COZZOLINO** – Tutor: Prof. Vincenzo BALDO
"PROTOCOLS FOR "ONE DIGITAL HEALTH" SURVEILLANCE SYSTEMS"

16:00 COFFEE BREAK

16:30 AULA MAGNA

Chairperson: Prof. Antonio Rosato

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CLINICAL AND EXPERIMENTAL ONCOLOGY AND IMMUNOLOGY

▪ **Eleonora LAI** – Tutor: Dr. Umberto BASSO – Co-Tutors: Proff. Stefano INDRACCOLO, Sara LONARDI
"CLINICAL RELEVANCE OF DDR MUTATIONS AND RESISTANCE MECHANISMS IN METASTATIC PROSTATIC ADENOCARCINOMA TREATED WITH CHEMOTHERAPY AND HORMONE THERAPY, AND ROLE OF LIQUID BIOPSY" –

ONLINE

▪ **Jacopo LIDONNICI** – Tutor: Prof. Stefano INDRACCOLO – Co-Tutor: Dr. Silvia GIUNCO
"TERRA AS A SENESENCE AND PROGNOSTIC BIOMARKER IN PERIPHERAL BLOOD MONONUCLEAR CELLS: FINDINGS FROM COLORECTAL CANCER PATIENTS AND IN VITRO STUDIES"

▪ **Alfredo PHEREZ-FARAH** – Tutor: Prof. Giulia PASQUAL – Co-Tutor: Prof. Antonio ROSATO
"UNRAVELING THE CROSSTALK BETWEEN T-CELL IMMUNOTHERAPIES AND THE TUMOR MICROENVIRONMENT"

▪ **Maria Grazia RODA'** – Tutor: Prof. Pietro RUGGIERI – Co-Tutor: Prof. Andrea ANGELINI
"BIOLOGICAL AND CLINICAL CHARACTERIZATION IN PATIENTS WITH BONE METASTASES FROM CARCINOMA: ANALYSIS OF OUTCOME IN RELATION TO METABOLIC FACTORS AND BIOLOGICAL AGGRESSIVENESS OF THE TUMOUR"

▪ **Iliaria TORTORELLI** – Tutor: Dr. Antonella BRUNELLO – Co-Tutors: Prof. Stefano INDRACCOLO, Dr. Sara LONARDI
"PROGNOSTIC BIOMARKERS IN DEDIFFERENTIATED LIPOSARCOMAS AND THEIR CLINICAL IMPACT ON PATIENTS' MANAGEMENT" – **ONLINE**

▪ **Chiara TRENTO** – Tutor: Prof. Stefano INDRACCOLO – Co-Tutor: Prof. Salvatore PUCCIARELLI

"MOLECULAR CHARACTERIZATION AND CLINICAL IMPLICATIONS OF MITOCHONDRIAL DNA VARIANTS IN COLORECTAL CANCER"

16:30 ARCHIVIO ANTICO

Chairperson: Prof. Gianni Bisogno

ONCOHEMATOLOGY, MEDICAL GENETICS, RARE DISEASES AND PREDICTIVE MEDICINE

- **Vincenza GRAGNANIELLO** – Tutor: Prof. Alberto BURLINA – Co-Tutor: Prof. Leonardo SALVIATI
"INFLAMMATION AND IMPAIRED AUTOPHAGY IN PRESYMPTOMATIC GAUCHER AND FABRY PATIENTS IDENTIFIED BY NEWBORN SCREENING" – **ONLINE**
- **Gaia MARTIRE** – Tutor: Prof. Lara MUSSOLIN
"TP53 AND TPM2: NEW POTENTIAL BIOMARKERS IN PEDIATRIC BURKITT LYMPHOMA"
- **Raffaele MATTERA** – Tutor: Prof. Alessandra BIFFI – Co-Tutor: Prof. Martina PIGAZZI
"TARGETING CD84 IN PEDIATRIC ACUTE MYELOID LEUKEMIA: A NOVEL APPROACH FOR CAR T CELL THERAPY"
- **Leonardo MEGGIOLARO** – Tutor: Prof. Eugenio BARALDI – Co-Tutor: Dr. Laura MOSCHINO
"PREDICTIVE VALUE OF PLASMA AND URINARY METABOLOMIC PROFILE IN NEWBORNS WITH CONGENITAL HEART DISEASE"
- **Sara MENGAZZO** – Tutor: Prof. Alessandra BIFFI – Co-Tutor: Dr. Sanja AVEIC
"LEVERAGING PHENOTYPIC PLASTICITY TO OVERCOME DRUG RESISTANCE IN PEDIATRIC NEUROBLASTOMA"
- **Pietro RIGONI** – Tutor: Prof. Alessandra BIFFI
"A NOVEL AND EMPOWERED TARGETED GENE ADDITION APPROACH AT A RELEVANT MICROGLIA LOCUS FOR THE TREATMENT OF X-LINKED ADRENOLEUKODYSTROPHY"

HEALTH PLANNING SCIENCES

- **Clara CESTONARO** – Tutor: Prof. Anna APRILE
"CHILDREN EXPOSURE TO DRUGS OF ABUSE: STUDY OF HAIR ANALYSIS REPORTS FROM 2018 TO 2022 AND PRELIMINARY STUDY OF 2023 REPORTS"

AULA MAGNA**17:45 BEST PRESENTATION AWARD****Prof. Massimiliano Zattin***Vice Rector for Postgraduate and Doctorate Programmes
University of Padua***18:00 CLOSING REMARKS**

PHD COURSES (XXXVIII CYCLES)

1. ARTERIAL HYPERTENSION AND VASCULAR BIOLOGY

Coordinator: Professor Teresa Maria SECCIA

2. BIOMEDICAL SCIENCES

Coordinator: Professor Ornella ROSSETTO

3. CLINICAL AND EXPERIMENTAL ONCOLOGY AND IMMUNOLOGY

Coordinator: Professor Antonio ROSATO

4. CLINICAL AND EXPERIMENTAL SCIENCES

Coordinator: Professor Roberta RAMONDA

Curriculum:

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

5. DEVELOPMENTAL MEDICINE AND HEALTH PLANNING SCIENCES

Coordinator: Professor Gianni BISOGNO

Curriculum:

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

6. MOLECULAR MEDICINE

Coordinator: Professor Arianna LOREGIAN

Curriculum:

- Biomedicine
- Regenerative Medicine

7. PHARMACOLOGICAL SCIENCES

Coordinator: Professor Nicola FERRI

Curriculum:

- Pharmacology, Toxicology and Therapeutics
- Molecular and Cellular Pharmacology

**8. TRANSLATIONAL SPECIALISTIC MEDICINE
"G.B. MORGAGNI"**

Coordinator: Professor Dario GREGORI

Curriculum:

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