XXXV and XXXVI Cycle - PhD Annual Presentations
November 17th, 2021

XXXV Cycle

Time	PhD Candidate
8:30 AM	**Simone PANCERA** *A novel quantitative technological approach to muscle and exercise dysfunction in the clinical rehabilitation practice of patients with chronic respiratory diseases* Prof. Nicola Francesco Lopomo
8:40 AM (online)	**Marco FERRARI** *Surgical navigation-aided oncologic ablations for head and neck cancers, preclinical phase on cadaver-models and pilot clinical application* Prof. Roberto Maroldi - Prof. Alberto Deganello, Prof. Alberto Signoroni
8:50 AM	**Fatehia BUSHARA GARMA BUSHARA** *Artificial Intelligence (AI) Applications in Medical Image Analysis* Prof. Nicola Francesco Lopomo - Prof. Alberto Signoroni
9:00 AM	**Antonella CORNELIO** *Design of porous materials derived from industrial non-hazardous waste powder for air particulate matter entrapment* Prof. Elza Bontempi
9:10 AM	**Tiziano FAPANNI** *Sensor designs for e-skin by printed and flexible electronics* Prof. Mauro Serpelloni
9:20 AM	**Riccardo MONFRINI** *Integrated Approaches based on Human Movement Analysis to support Functional Evaluation of Subjects with Neuro-Muscular-Skeletal Disorders* Prof. Nicola Francesco Lopomo - Prof. Veronica Cimolin

Time	PhD Candidate
9:30 AM	**Elena ROCA** *Brain Retraction Injury: development of a novel brain spatula and dynamic mechanical characterization of brain tissue.* Prof. Francesco Doglietto - Prof. Giorgio Ramorino
9:40 AM (online)	**Michele SHIAVO** *Automatic control of general anesthesia: new clinical development and experiments* Prof. Prof. Antonio Visioli - Prof. Nicola Latronico

XXXVI Cycle

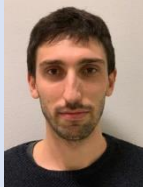| Time	PhD Candidate
9:50 AM	**Ileana ARMANDO** *Stimulation and real-time monitoring for cell culture* Prof. Mauro Serpelloni
10:00 AM	**Daniele BAGGI** *Automatic segmentation, classification and analysis of ultrasonic mice vocalizations* Prof. Emilio Sardini - Prof. Pierangelo Migliorati
10:10 AM	**Matteo BERNI** *An integrated methodological and experimental framework addressing the relationship between functionality and structure of the knee osteochondral system throughout osteoarthritis* Prof. Nicola Francesco Lopomo – Eng. Massimiliano Baleani
10:20 AM	**Paola CIRELLI** *Elemental analysis of air particulate matter filters by X-ray fluorescence under grazing incidence* Prof. Roberto Lucchini – Prof. Laura Borgese
10:30 AM	**Marco GHIDELLI** *Augmented reality and instrumented crutches to generate visual feedback during assisted walking* Prof. Emilio Sardini – Prof. Matteo Lancini

10:40 AM **(online)**		**Davide GHITTI** *Digital technology, telemedicine and artificial intelligence in extracorporeal membrane oxygenation* Prof. Nicola Francesco Lopomo - Dr. Sergio Cattaneo
10:50 AM		**Maria MILANESI** *Design and validation of virucidal compounds for the development of anti-SARS-CoV2 Personal Protective Equipment* Prof. Marco Rusnati
11:00 AM		**Chiara PASINI** *Development of Core-Shell Composite Scaffolds (CSCSs) for tissue engineering* Prof. Francesco Baldi - prof. Stefano Pandini/prof. Luciana Sartore
11:10 AM		**Matteo SALVADORI** *Evaluation of the reliability of endodontic instruments using a new generation equipment for stress-strength determination* Prof. Corrado Paganelli
11:.20 AM		**Giampiero Pasquale SORRENTINO** *Carbon dioxide as a raw material for the stabilization of incinerated industrial and municipal solid waste* Prof. Elza Bontempi