



UNIVERSITY
OF BRESCIA

PHD IN TECHNOLOGY FOR HEALTH
XXXIII AND XXXIV CYCLE



Annual PhD research presentations

November 22th, 2019 – Aula B2.10, via Branze 43

- 9:00 **Alessandro Cudicio** (Corrado Paganelli, Claudio Orizio)
XXXIII CYCLE
Neuro-mechanical and functional evaluation in healthy subjects and in patients with altered motor control
- 9:10 **Elena De Angelis** (Marialuisa Volta)
XXXIII CYCLE
Integrated Assessment Modelling to support decision makers in planning air quality and climate change win-win policies
- 9:20 **Dhiego Fernandes Carvalho** (Paolo Ferrari, Emiliano Sisinni)
XXXIII CYCLE
LPWAN and IoT technologies for health applications
- 9:30 **Davide Gibin** (Gianni Gilioli, Maria Luisa Volta)
XXXIII CYCLE
Design and application of an integrated platform for assessing the environmental impact of food production and consumption
- 9:40 **Giulia Paiardi** (Marco Rusnati, Paolo Bergese)
XXXIII CYCLE
Integrating bioinformatics and biosensors to single out antiangiogenetic small chemical compounds
- 9:50 **Marialaura Serzanti** (Marco Rusnati)
XXXIV CYCLE
Building Human Engineered Tissue: cell alignment using acoustic waves
- 10:00 **Giovanni Vinetti** (Guido Ferretti, Nicola Francesco Lopomo)
XXXIII CYCLE
Energetics and mechanics of human breath-hold diving
- 10:10 **Lorenzo Svanetti** (Corrado Paganelli, Nicola Francesco Lopomo)
XXXIII CYCLE
Study of the forces related to the CPAP mask on the face and possible effects on craniofacial growth

10:20 **Edoardo Cantù** (Mauro Serpelloni)

XXXIV CYCLE

Printed sensors on non-conventional substrates

10:30 **Giorgio Cassiolas** (Nicola Francesco Lopomo, Fulvia Taddei)

XXXIV CYCLE

A novel approach for monitoring and preventing the onset of osteoarthritis in elderly population

10:40 **Serena Ducoli** (Elza Bontempi)

XXXIV CYCLE

Biotechnology and engineering: new frontiers for materials for a sustainable development

10:50 **Ario Fahimi** (Elza Bontempi)

XXXIV CYCLE

DEASPHOR: Design of a product for substitution of phosphate rocks

11:00 **Raphaël Jauberteau** (Stefan Wabnitz, Vincent Couderc) [Skype]

XXXIV CYCLE

Spatiotemporal control of light beams for nonlinear microscopy applications

11:10 **Vittorio Rampinelli** (Francesco Doglietto)

XXXIV CYCLE

Multiperspective study of head and neck anatomy: development and validation of an interactive application

11:20 **Alberto Zucchelli** (Nicola Francesco Lopomo, Alessandra Marengoni)

XXXIV CYCLE

Innovation technology for mobility evaluation in older persons

11:30 **Agnese Segala** (Alessandra Valerio, Paola Taroni) [Skype]

XXXIII CYCLE

Multidimensional approach to Frailty Syndrome of the elderly: characterization of mouse models and set up of a new optical spectroscopy technique in humans

11:40 **Nicoletta Inverardi** (Fabio Bignotti, Stefano Pandini) [Skype]

XXXIII CYCLE

3D printed shape memory polymers for biomedical applications