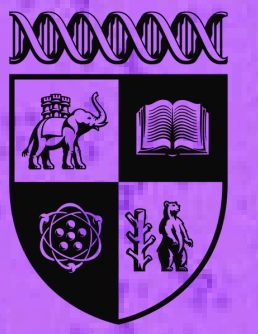


Biomedical & Biotechnology Seminar Series



Prof. Leandro Pecchia

Seminar 1: Biomedical Engineering Global Health

Over the past decades, biomedical engineering (BME) has profoundly transformed biology and medicine, driving innovations that have redefined diagnostics, therapies, and models of care. Advanced imaging technologies, computational modelling, smart medical devices, and personalized medicine have enabled an unprecedented understanding and management of biological complexity.

Today, however, we face a new frontier: shifting the focus from the individual to the system, from the laboratory to society. Biomedical engineers are now called to become a driver of public and global health, addressing inequalities in access, responding to emerging health crises, and contributing to the achievement of the Sustainable Development Goals. In this talk, leveraging on his experience as researcher and WHO Innovation Manager during COVID pandemic,

Prof Pecchia will discuss the health challenges we are called to face—climate change, population aging, the tropicalization of temperate regions, and pollution— and how biomedical engineering is contributing to address them, presenting a series of projects for which he serves as coordinator and scientific lead.

Professor of Biomedical Engineering at the University of Warwick. He holds a PhD in Biomedical Engineering and Healthcare Services Management from the University "Federico II" of Naples, where he also earned his degree in Electrical and Electronic Engineering in 2005. He has authored over 200 peer-reviewed publications across journals, books, and conferences. His research spans medical devices, biomedical signal processing, Health Technology Assessment (HTA), the Internet of Things (IoT), and the application of machine learning and artificial intelligence to active and healthy ageing, as well as the management of chronic diseases.

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