



CENTRO DE PESQUISAS AVANÇADAS EM GRAFENO, NANOMATERIAIS E NANOTECNOLOGIAS

## *“Organic Bioelectronics Multiscale Sensing: state-of-the-art and issues”*

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DATA: DIA 21 DE SETEMBRO DE 2022 ÀS 14:00H  
LOCAL: AUDITÓRIO MACKGRAPHE

**Abstract:** In this talk, I will discuss the different strategies to devise biosensors based on organic bioelectronics devices termed electrolyte gated organic transistors. I will comment on pros and cons of the possible approaches, show some examples and discuss some fundamental issues on the mechanisms of sensing and transduction, that make these devices extremely interesting for both the superb performance as sensors and transducers of electrical and chemical biological signals, and the subtle phenomena underlying their operations.



**Resumo do palestrante:** Fabio Biscarini is Full Professor of Chemistry at University of Modena and Reggio Emilia (UNIMORE) and Senior Researcher at the Center for Translational Neurophysiology-Istituto Italiano di Tecnologia in Ferrara, where he heads the research line “Organic Neuroelectronics”.

His research interests are organic bioelectronics, label-free biosensors, implantable devices for bidirectional communication with the brain, organic neuromorphic devices.