

Dipartimento di Biotecnologie e Bioscienze – UNIMIB

Thursday, December 19, 2024, 4:45 p.m., ATLAS-U1, room U1-06

Emulation and biofabrication of human tissues and disease models

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Abstract: A central goal of bioengineering is the generation of in vitro emulation systems of human organs, to recreate human- and patient-specific conditions, to develop approaches for regenerative medicine, and to complement or substitute animal models in drug development and fundamental biomedical research. In this seminar, after an accessible introduction to the field, I will discuss the approaches and challenges in the generation of complex human bioengineered organs, with a particular emphasis on oral tissues and disease models, guided by examples taken from my research path. I will further discuss current and future approaches that we are pursuing to tackle this fundamental challenge.

Host: Silvia Nicolis

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