

DSV Seminars 2019



PhD Program in Molecular Biomedicine



Thursday, 28 November 2019 - 12:00

Seminar room, I floor, Q Building – Via Giorgieri 5

Dr. Giovanni Sorrentino, PhD

Institute of Bioengineering, Laboratory of Metabolic Signaling, École Polytechnique Fédérale de Lausanne.

Host: Giannino del Sal

**On the road to regeneration:
new routes and tools
for stem cell therapies
in the enterohepatic system**

Dr. Sorrentino's current research is oriented at understanding the fundamental principles that regulate intestinal and liver stem cell homeostasis, with the ultimate goal of translating this knowledge into regenerative medicine therapies. In particular, how nutritional cues and the physical microenvironment integrate each other to control stemness in the enterohepatic system. These basic biomedical questions are approached by combining mouse models, tissue engineering, and 3D organotypic cultures. The seminar will discuss mechanisms of nutrient sensing in intestinal stem cells and innovative strategies to derive clinical grade hepatic organoids using mechanically tunable hydrogels

