

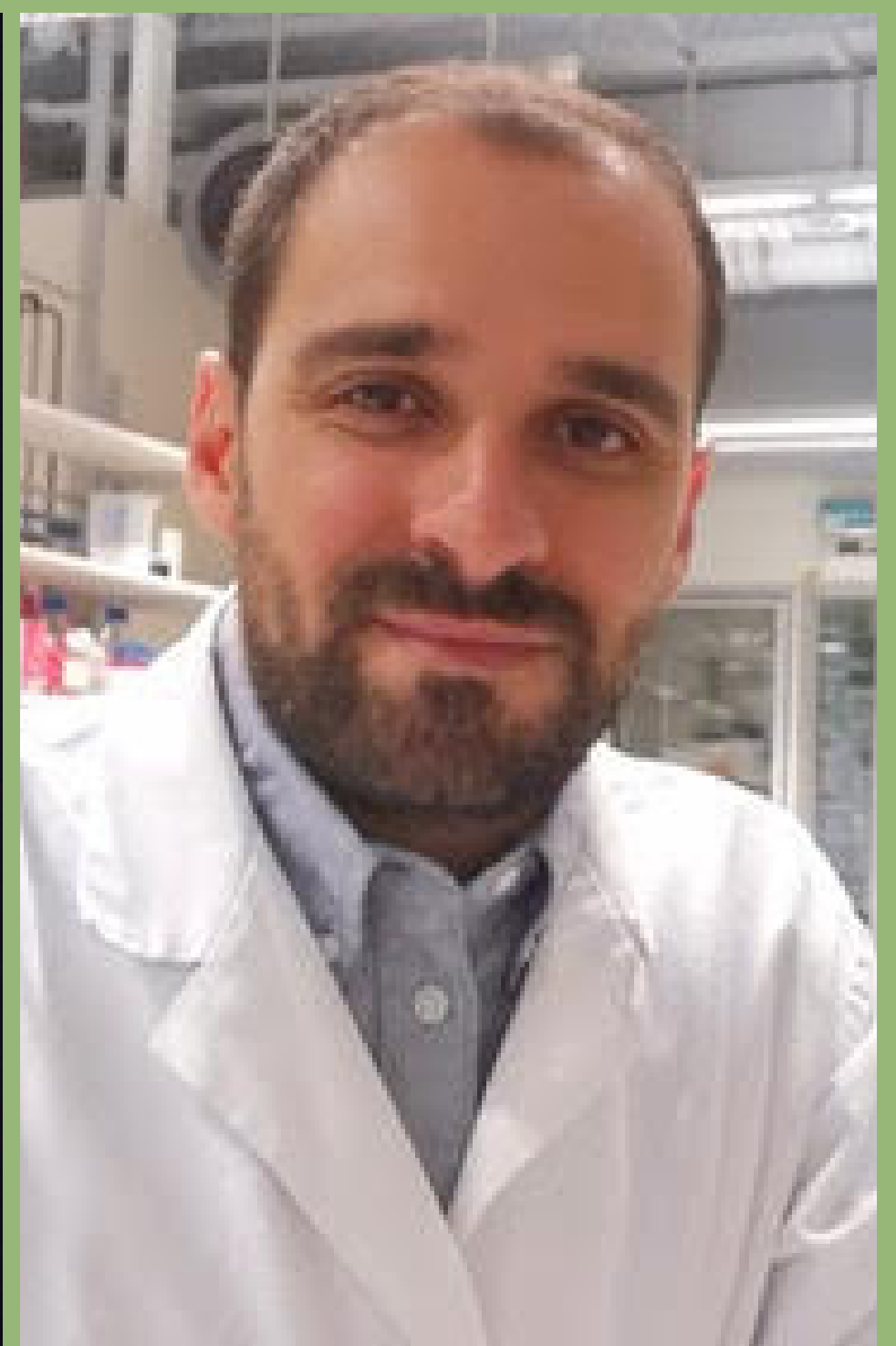
5 DECEMBRE AT 4.30 P.M.  
ROOM A 105 | POVO 1

CIBIO  
EXTERNAL  
seminar

# EXPLORING LIVER PLASTICITY IN ADVANCED ORGANOTYPIC CULTURES

**GIOVANNI SORRENTINO**

ASSISTANT PROFESSOR OF HISTOLOGY, HEAD OF AIRC START-UP UNIT, DEPARTMENT OF MEDICAL, SURGICAL AND HEALTH SCIENCES – UNIVERSITY OF TRIESTE  
HEAD OF THE LABORATORY OF ADVANCED DISEASE MODELS, INTERNATIONAL CENTRE FOR GENETIC ENGINEERING AND BIOTECHNOLOGY (ICGEB), TRIESTE, ITALY



Dr. Sorrentino's research is focused on unraveling the **fundamental principles governing the progression of chronic liver diseases**. The overarching objective is to leverage this understanding to create innovative disease models, refine cancer treatments, and advance regenerative medicine therapies. Specifically, his laboratory investigates **how metabolic and nutritional signals intricately coordinate mechanical communication within hepatic tissue**, influencing the regulation of stemness and cancer development. These basic biological questions are addressed using a multi-disciplinary approach that combines mouse models, tissue engineering techniques, and 3D organotypic cultures derived from both adult tissues and human-induced pluripotent stem cells.

In this seminar, Dr. Sorrentino will discuss **innovative ex vivo models** designed to capture the multifaceted aspects of hepatic tissue complexity, shedding light on the mechanisms underlying metabolic reprogramming in liver stem cells during chronic hepatic injury.



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