

A portrait of Professor Salvador Pané i Vidal, a man with a beard and glasses, wearing a blue blazer over a light blue shirt. He is smiling and standing in a modern, brightly lit office or laboratory setting with large windows in the background. A semi-transparent blue banner is overlaid at the bottom of the image, containing text.

**Professor Salvador Pané i Vidal**

«What drives me to carry out research is my insatiable curiosity about matter and nature's engines, and the fact that new discoveries can improve the quality of our lives.»

# Multi-Scale Robotics Lab

## Institute of Robotics and Intelligent Systems

Our research is at the intersection of materials science, chemistry, biomedicine and small-scale robotics. We develop materials and advanced fabrication approaches for realizing small-scale agents, with a focus on nanomedicine and on-the-fly chemistry. Small-scale robotics is a developing field that exploits advances in several disciplines to create machines operating at micro and nanoscales. Our lab brings a unique vision of the field of micro- and nanorobotics from a chemistry and materials perspective.

### Focus

- Micro- and nanorobotics
- Electrochemical processing
- Micro- and nanofabrication
- Magnetoelectric materials

### Tools and methods

- 2D and 3D template-assisted fabrication
- Cell electrostimulation and targeted drug delivery
- Magnetic characterization and manipulation
- 3D printing

Further details online:

[www.msrl.ethz.ch](http://www.msrl.ethz.ch)

