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Technology Transfer of Organ-on-Chip Approaches to Foster Innovation in the Biomedical Field

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INNo-CHIP Objectives

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- **Promote** the adoption and development of organ-on-chip (OoC) technologies to enhance preclinical research.
- **Establish** an interregional life sciences cluster (South Tyrol – Canton Ticino – Insubric region).
- **Reduce** reliance on animal models through platforms that faithfully mimic human physiology.
- **Strengthen** collaboration and knowledge exchange between academic institutions and industry, boosting competitiveness and innovation.

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Technological developments

Advanced organ-on-chip prototype.
Support tools for spin-offs and technology transfer initiatives.

Multidisciplinary approach

Advanced materials + cell model biology + microfluidic engineering.

Impact on the region

Direct support to 10 biomedical researchers.
Involvement of 25+ organisations across the life sciences ecosystem.
Consolidation of a sustainable Italy–Switzerland cooperation framework.
Economic growth and scientific progress in the biomedical sector.

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