

ARCHITECTURED BIOMATERIALS



Our research

Engineering soft material architectures across scales to understand and control dynamic interactions with living systems.

Interface with the body: adaptive materials interfaces for sensing and health monitoring

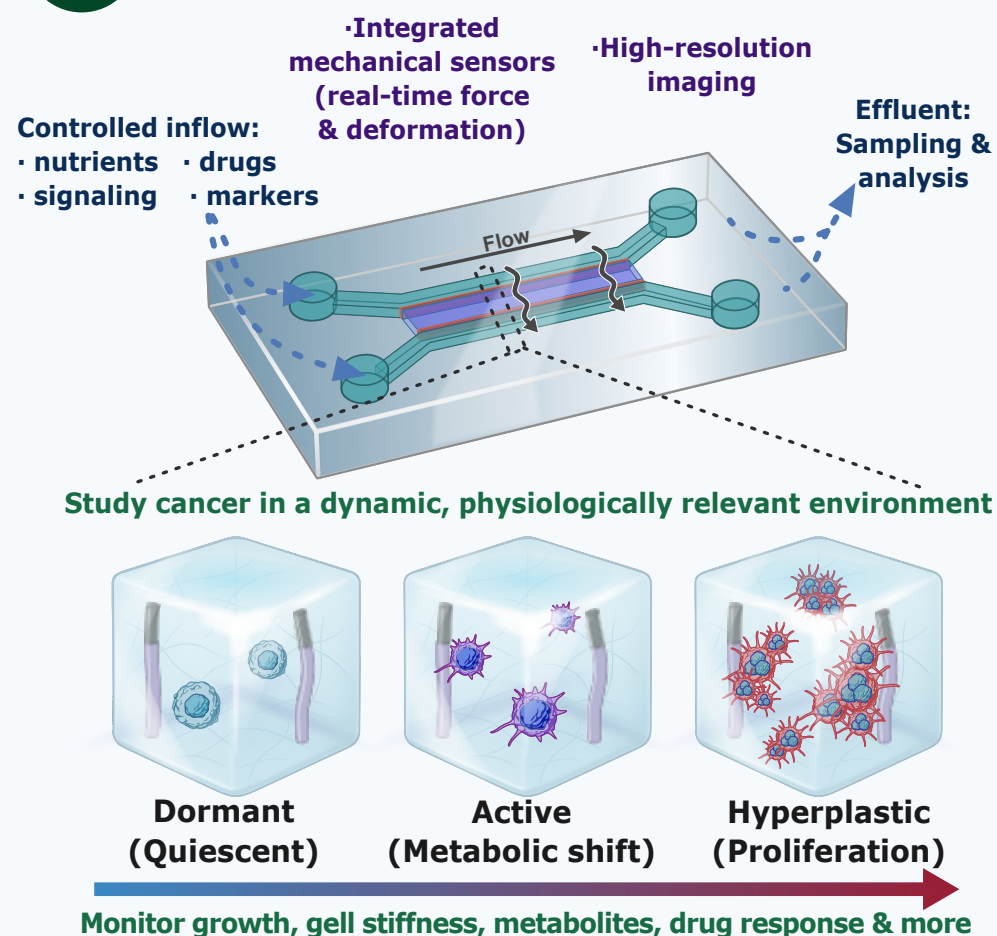
Understanding cellular microenvironments: probing ECM changes as function of cell behaviour

Engineering living tissues: architected materials in embedded bioprinting



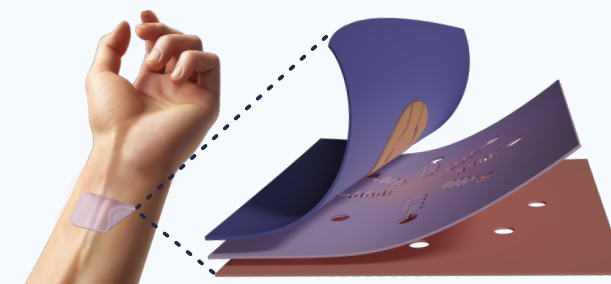
Cell Remodeling

Tumor Microenvironments-on-a-chip



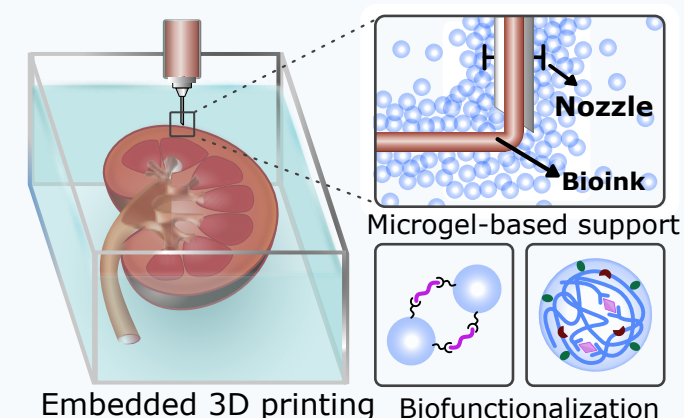
Wearable Biosensors

Devices for Early Diagnosis and Monitoring



Embedded Bioprinting

Structured Materials for Tissue Engineering



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Lab Capabilities:

- ✓ Soft biomaterials design
- ✓ Mechanical and rheological testing
- ✓ Microfabrication and microfluidics
- ✓ Surface and adhesion
- ✓ Biofabrication



Keywords:

- ➔ Biomaterials
- ➔ Polymers
- ➔ Soft Matter
- ➔ Biomedical devices
- ➔ Biofabrication
- ➔ Cell Research
- ➔ Mechanobiology

