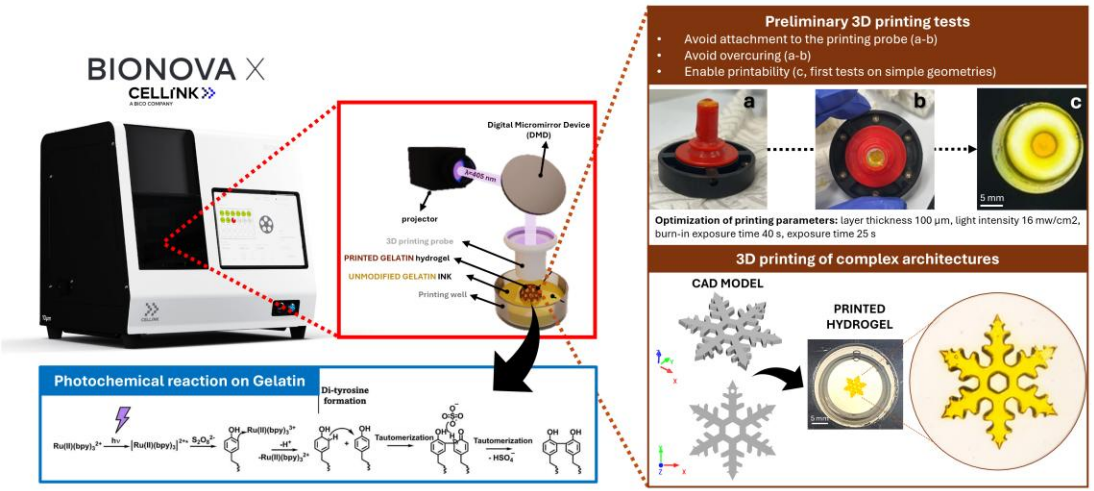
Short Term Scientific Mission funded by the COST Action CA22131

Supramolecular LUminescent Chemosensors for Environmental Security

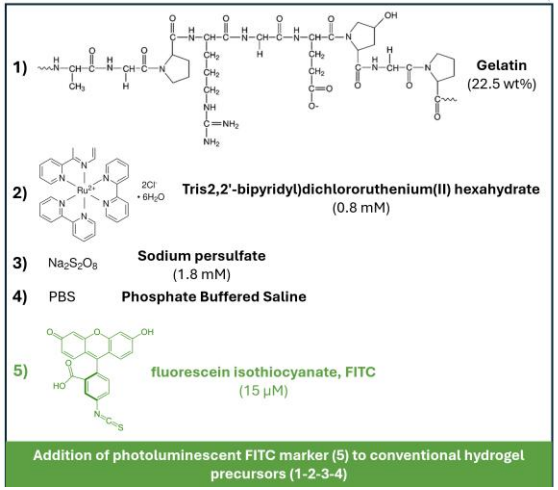
Exchange of know-how in advanced fabrication technologies for the development of photoluminescent sensors interacting with living matter

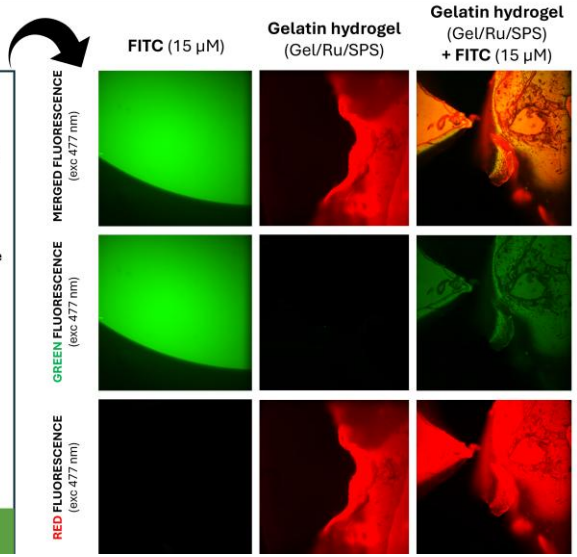


Main outcomes:

- **DLP Bioprinting:** Mastered Bionova X for direct cell dispersion in 3D scaffolds.
- **Protocol Success:** Optimized parameters for high-resolution, ruthenium-mediated native gelatin bio-inks.
- **Sensor Development:** Integrated luminescent dyes and identified spectral overlap challenges.
- **Advanced Analysis:** Improved expertise in specialized rheological and photo-rheological measurements.

Collaborative research at Politecnico di Torino, Jan 2026.





Ayelet BUNIN

Home Group: « Prof. Magdassi », « Hebrew University of Jerusalem», « IL » - WG3

Host Group: « Prof. Roppolo », « Politecnico of Torino», « IT » - WG3

Period: 01.01.2026 to 25.02.2026

cost EUROPEAN COOPERATION IN SCIENCE & TECHNOLOGY

Funded by the European Union