



Istituto Nazionale di Fisica Nucleare  
LABORATORI NAZIONALI DI LEGNARO



Laboratori Nazionali di Legnaro - INFN

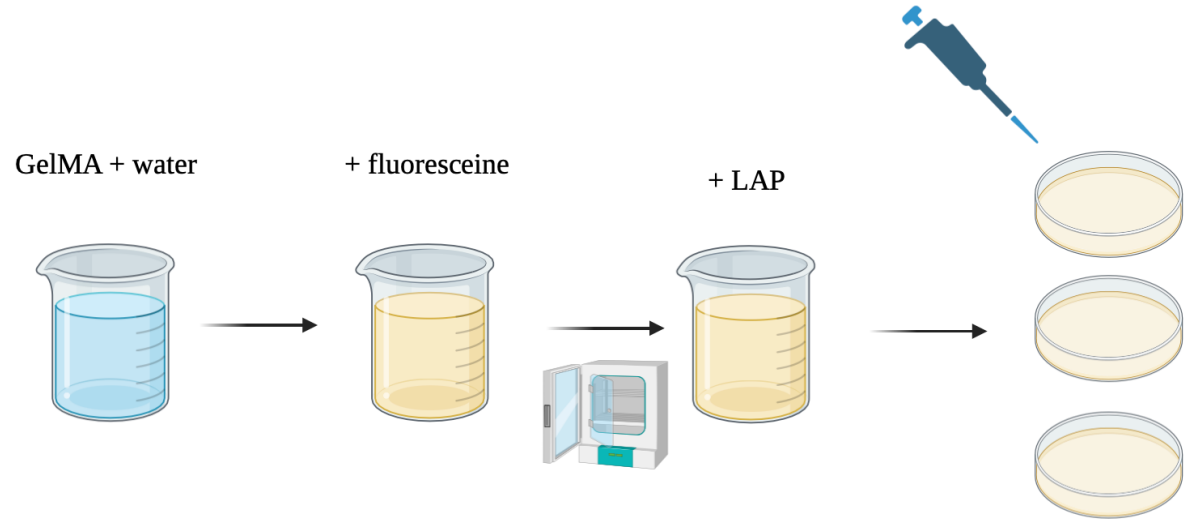
## **WP4** - Tissue-mimicking scaffolds for radiobiology

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May 24<sup>th</sup>, 2024

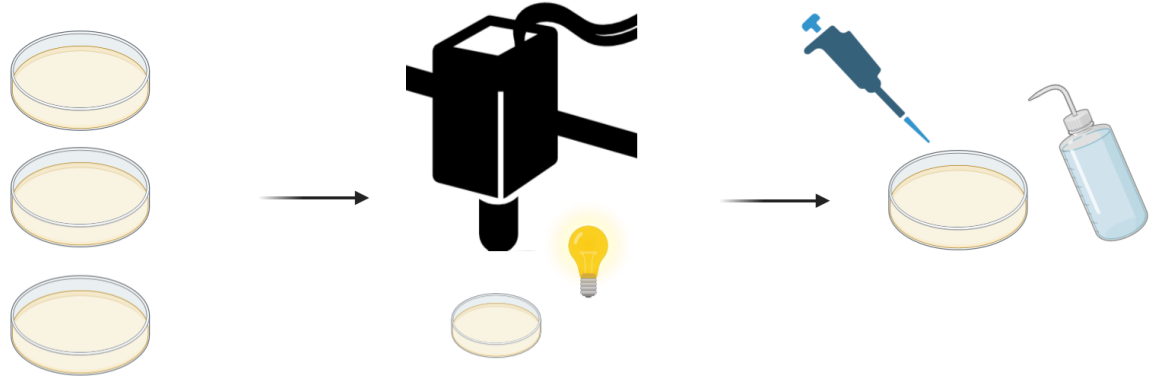
# GelMA preparation

A solution made of GelMA (20%), fluorescein and LAP was prepared and deposited in *petri* dishes.



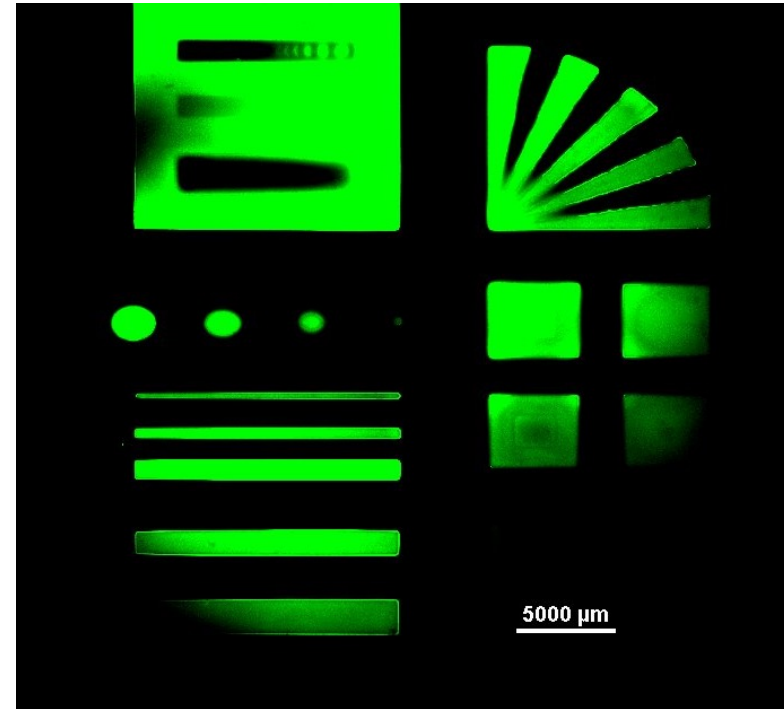
## 2.5D printing

The GelMA solution went through solidification by DLP technique, and the not solidified excess was washed and removed from the *petri* dish.

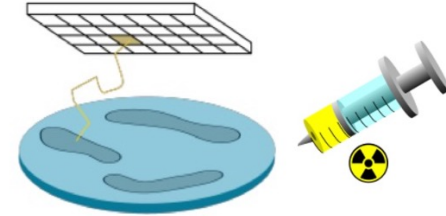


*Petri* dishes were analyzed under a confocal microscope.

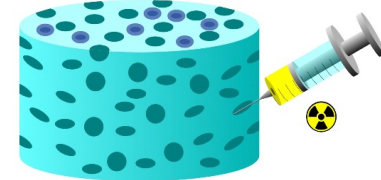
As one can see, the shapes are resolved and a gradient can be observed.



## 1. Supports for Beta-detector resolution tests



## 2. Production of scaffolds for 3D *in vitro* tests with $^{111}\text{Ag}$



1. Use a glass support to improve wettability;
2. Analyze the time exposition to find the better solution;
3. Evaluate the possibility of printing the background and then fill the gaps with the phase of interest (cells, silver...)



Thank you for your  
kind attention