

# 3D scaffold micro fabrication via multi photon polymerization of hybrid materials for neural cell cultivations

Iakovos Gavalas<sup>1,2,\*</sup>, Alexandros Selimis<sup>1</sup>, Maria Farsari<sup>1</sup>

<sup>1</sup>*Institute of Electronic Structure and Laser (IESL), Foundation for Research and Technology - Hellas (FORTH)  
N. Plastira 100, 70013*

*Crete, Greece*

<sup>2</sup>*Department of Materials Science and Technology, University of Crete, Greece*

There is a lot of research in the field of scaffold micro fabrication for cell growth. We present our work into fabrication of 3D scaffolds for neural cell growth using an organic – inorganic hybrid biocompatible material. In order to fabricate our scaffolds, we employ multi-photon polymerization, a direct laser writing technique which allows the selective polymerization of photosensitive material [1,2]. An example of our scaffolds is shown in Figure 1.

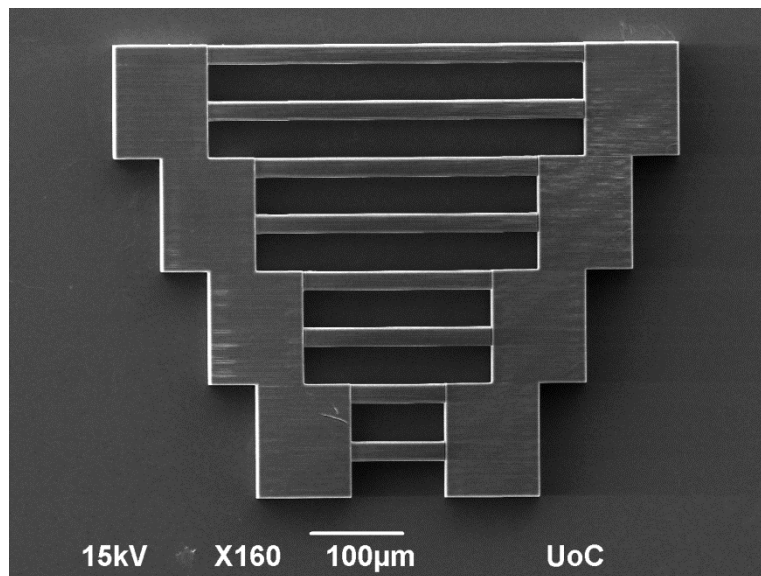


Figure 1: Top view of a 3D scaffold

## References

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- [2] Farsari, M.; Vamvakaki, M.; Chichkov, B. N., Multiphoton polymerization of hybrid materials. *Journal of Optics* **2010**, *12*, 124001.