3D@UniPV
Virtual Modeling and Additive Manufacturing for Advanced Materials

III WORKSHOP BIOPRINTING:
DAL SET-UP DELLA STAMPA ALLE ANALISI IN LABORATORIO

26 Settembre 2019 – dalle 10:00 alle 16:00
Aula 8 (Polo nuovo) – Facoltà di Ingegneria Università degli Studi di Pavia,
Via Ferrata 3, Pavia

10:00-11:00 Breve benvenuto e presentazioni da parte di 'nuovi' gruppi di ricerca.

- 10:00-10:20 *Computational design of the bioprinting process: challenges and potentialities.* Michele Marino (marino@ikm.uni-hannover.de). Institute of Continuum Mechanics, Leibniz Universität Hannover, Hannover, DE.
- 10:20-10:40 *Multi-disciplinary challenges to controlling cell and tissue behavior using 3D bioprinting.* Francesco Pasqualini (fpasqualini@g.harvard.edu). Wyss Institute at Harvard University, USA.
- 10:40-11:00 *SEM microscopy: a powerful tool for structural and compositional analysis.* Ilenia Tredici (cisric.arvedipv@unipv.it). CISRiC - Centro Interdipartimentale di Studi e Ricerche per la Conservazione del Patrimonio Culturale, Università di Pavia.

11:00-11:30 Coffee break.

11:30-13:00 Focus on bioinks.

- 11:30-12:00 *Cellink Bioinks: A guide to the right choise*. Cellink, SW.
- 12:00-12:20 *Development of new thiolated hyaluronic-based printable hydrogel formulations*. Cataldo Pignatelli (cataldo.pignatelli@unimib.it). University of Milano-Bicocca, Milano.
- 12:20-12:40 *Calcium-functionalized 3D silk gelatin bioink promotes osteogenesis of mesenchymal stromal cells: perspectives for orthopedic surgery*. Diego Trucco (diego.trucco@ior.it). Istituto Ortopedico Rizzoli, Bologna.
- 12:40-13:00 *Plasma surface functionalisation while bioprinting a tailored bone scaffold. The HAM (hybrid additive manufacturing) bioscaffolder of the FAST project.* Paolo Scopece (scopece@nadir-tech.it), Nadir srl, Padova, IT (http://www.nadir- tech.it/en/home-2/).

13:00-14:00 Light Lunch

14:00-16:00 Comunicazioni libere, Tavola rotonda e conclusioni finali

- 14:20-14:40*: Regulatory aspects of 3D bioprinting: A review.* Deborah Stanco (Deborah.STANCO@ext.ec.europa.eu), European Commission.