

Shaping the future: innovations and applications in 3D Printing

16 December 2024

Room 1002 (HM1/1st floor)

9:15 Introduction

Session 1 (15 minutes talk + 15 minutes questions)

9:30-10:00

Rapidly Gelled Lipoic Acid-Based Supramolecular Hydrogel for 3D Printing of Adhesive Bandage
(ABBAS / FETAHU)

<https://doi.org/10.1021/acsami.4c11704>

10:00-10:30:

Fabricating scalable, personalized wound dressings with customizable drug loadings via 3D printing
(FIOT / YAMOUT)

<https://doi.org/10.1016/j.jconrel.2021.11.017>

10:30-11:00

3D Printed Microneedles for the Transdermal Delivery of NAD⁺ Precursor: Toward Personalization of
Skin Delivery

(LACAILLE / TCHANGOU NJIEMOU)

<https://doi.org/10.1021/acsbiomaterials.4c00905>

11:10-11:15: Break

11:15-11:45:

Multi-material 3D printed eutectogel microneedle patches integrated with fast customization and tunable
drug delivery

(NOVIANITA / ROCHE SABIDO)

<https://doi.org/10.1016/j.jconrel.2024.02.023>

11:45-12:15:

3D Printing Silk Fibroin/Polyacrylamide Triple-Network Composite Hydrogels with Stretchability,
Conductivity, and Strain-Sensing Ability as Bionic Electronic Skins IRAK1

(REIS / TAQUIN)

<https://doi.org/10.1021/acsbiomaterials.4c00201>

Session 2 (Invited speakers)

14:00-15:00: Pascale Dupuis Williams

Speaker introduction: Abbas/Fiot/Lacaille/Novianita/Reis

15:00-16:00: Denis Lucas/ Maxime Annereau

Speaker introduction: Fetahu/Yamout/Tchangou Njiemou/Roche Sabido/Taquin)

16:00–16:30: General Discussion/Lessons learned