Session Program

13–17 Sept 2021

EUROPEAN CONGRESS AND EXHIBITION ON ADVANCED MATERIALS AND PROCESSES - EUROMAT 2021

F5_Synthetic polymer for medical applications

Virtual

Thursday 16 September

16:40

F5_Synthetic polymer for medical applications: F5_1_Syntetic polymers for Additive Manufacturing

Session | **Location:** Room 15

16:40–17:20

High-Throughput Methods for Materials Creation, Selection and Identification for 3D Printed Biomedical Devices (Keynote)

Speaker
Prof. Ricky Wildman

17:20–17:40

Additive manufacturing of resorbable scaffolds for soft tissue applications - how important is the selection of polymer for the result?

Speaker
Prof. Anna Finne-Wistrand

17:40–18:00

Development of thiol-ene photo-crosslinkable poly(ε-caprolactone) for light-based 3D-printing

Speaker
Mr Quinten Thijssen

18:00

Friday 17 September

10:10

F5_Synthetic polymer for medical applications: F5_2_Engineering polymers for bone-cartilage tissue regenerationn

Session | **Location:** Room 15

10:10–10:30

Synthetic, biocompatible polymers for additively manufactured tissue regeneration scaffolds

Speaker
Dr Stefan Baudis

10:30–10:50

Fracture Fixations via On-Site Fabrication of Bone Restoration Patches

Speaker
David Eglin

10:50–11:10

Characterization of degradable hydrogels for cartilage regeneration

Speaker
Ms Johanna Meyer

11:10–11:30

3D Bioprinting of a tissue mimetic hyaluronan bioink containing collagen fibers with controlled orientation

Speaker
Prof. Matteo D'Este

11:30

11:50

F5_Synthetic polymer for medical applications: F5_3_Biomaterials for controlling cellular behaviour

Session | **Location:** Room 15

11:50–12:10

Engineering Liquid Interfaces with Viscoelastic 2D Protein Networks - Microdroplet Design for Stem Cell Technologies (Highlight)

Speaker
Prof. Julien Gautrot

12:10–12:30

Biodegradable microscaffolds made by 2PP as novel armamentum for tissue engineering

Speaker
Dr Olivier Guillaume

12:30–12:50

Single and Double network systems based on methacryloyl mucin

Speaker
Dr Andrada Serafim

12:50–13:10

Shape Memory Polymers Enable Dynamic Microcontact Printed Patterns for Altering Cell Morphology

Speaker
Fred Donelson

13:10

14:40

F5_Synthetic polymer for medical applications: F5_4_Nano-, micro-size polymeric system

Session | **Location:** Room 15

14:40–15:00

Polymer surface functionalization of nanoparticles for biomedical applications – controlling protein interactions (Highlight)

Speaker
Prof. Erik Reimhult

15:00–15:20

PLA@SPIONs and PLA@HA nanocomposites with controlled interface as enhanced biomaterials for biomedical applications

Speaker
Prof. Benjamin Nottelet

15:20–15:40

Nanoparticles based on poly(ethylene oxide)-block-polycaprolactone for targeted drug delivery and glioblastoma therapy

Speaker
Mr Voitto Känkänen

15:40

16:40

F5_Synthetic polymer for medical applications: F5_5_Polymeric materials for controlled release

Session | **Location:** Room 15

16:40–17:00

Phytotherapeutic nanofiber mats for antibacterial wound dressing (Highlight)

Speaker
Ms Irem Unalan

17:00–17:20

Bioresorbable bilayered elastomer/hydrogel self-rolling patch for anti-inflammatory delivery

Speaker
Mathilde Grosjean

17:20–17:40

Nanoparticle Incorporated Electrospun Patches for Dual Drug Delivery Applications

Speaker
Mr Abdurrahim Can Egil

17:40–18:00

Microfluidic preparation of targeted nanoparticles for oral anti-diabetic peptide delivery

Speaker
João Pedro Martins

18:00–18:20

Competitive Binding and Molecular Crowding Regulate the Cytoplasmic Interactome of Non-Viral Polymeric Gene Delivery Vectors

Speaker

Prof. Julien Gautrot

18:20