

Session Program

13-17 Sept 2021

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

F1_ Bioceramics and bioglasses

Virtual

Monday 13 September

11:00

F1_ Bioceramics and bioglasses: F1_1_Nanomedicine

Session | Location: Room 15

11:00–11:40

New approaches in infection management based on mesostructured materials (Keynote)

Speaker

Dr Isabel Izquierdo-Barba

11:40–12:00

New Bone Formation and Osteoporosis Remission with Nanoparticles

Speaker

Miguel Manzano

12:00–12:20

Multifunctional copper-containing mesoporous silica nanoparticles as antibacterial and angiogenic agents

Speaker

Isabel Izquierdo-Barba

12:20–12:40

Ion doped mesoporous bioactive glass nanoparticles for drug delivery and tissue engineering

Speaker

Prof. Aldo R. Boccaccini

12:40

14:00

F1_ Bioceramics and bioglasses: F1_2_Bioactive Glasses

Session | Location: Room 15

14:00–14:20

Effect of Zn and Ga on bioactivity, degradation and anti-bacterial properties of 1393-B3 glass

Speaker

Ms Nurshen Mutlu

14:20–14:40

Synthesis of cerium containing mesoporous bioactive glass nanoparticles for biomedical applications

Speaker

Mr Fatih Kurtuldu

14:40–15:00

Mesoporous glass nanoparticles doped with ZnO and loaded with Curcumin to regenerate bone and treat infection

Speaker

Antonio J. Salinas

15:00–15:20

Osteoinductive potential of a biomaterial enriched with osteostatin and autologous mesenchymal cells in osteoporotic rabbits**Speaker**

Antonio J. Salinas

15:20–15:40

Influence of bioactive glass composition on protein adsorption**Speaker**

Kai Zheng

15:40

16:00

F1_ Bioceramics and bioglasses: F1_3_Bioceramics**Session** | **Location:** Room 15

16:00–16:40

Innovative chemical processes based on heterogeneous reactions in the 3-D state yield biomorphic bone scaffolds with superior bioactivity (Keynote)**Speaker**

Dr Simone Sprio

16:40–17:00

Direct Ink Writing of Hierarchically Porous Biosilicate® Glass-ceramic Scaffolds**Speaker**

Ms Fulden Dogrul

17:00–17:20

New strategy to manufacture and bioactivate porous alumina scaffolds for bone regeneration by Spark Plasma Sintering, sacrificial template and sol-gel method**Speaker**

Manuela González-Sánchez

17:20–17:40

From calcium phosphate slurries to scaffolds with tailored porosity**Speaker**

Dr Massimiliano Dapporto

17:40

Tuesday 14 September

09:50

F1_ Bioceramics and bioglasses: F1_4_Biopolymers

Session | **Location:** Room 15

09:50–10:10

Microscopic Characterization of Cross-linked Gelatin Nanofibrous Scaffold Using FESEM

Speaker

Dr Fang Zhou

10:10–10:30

Nanoscale structural characterization of bone by a combination of quantitative polarized Raman spectroscopy, nano X-ray computed tomography, and STEM tomography

Speaker

Ms Tatiana Kochetkova

10:30–10:50

Effect of structural and mechanical properties in the electromechanical response of chitosan free-standing films

Speaker

Ms Dayana Guzman

10:50–11:10

The effect of the filler content and the crystallization temperature on the physical performance of Poly(L-lactic) acid/titanium dioxide bionanocomposites

Speaker

Ms Aimilia Barmdaki

11:30