

Session Program

15-19 May 2023



8th Pacific Rim Conference on Rheology

Biomaterials and Biological Systems

University of British Columbia, Point Grey Campus, Mathematics & Geography Buildings
1984 Mathematics Rd / 1984 West Mall Vancouver, BC V6T 1Z2 CANADA

Tuesday 16 May

10:30

Biomaterials and Biological Systems

Session | **Location:** Geography Building, Room 100, 1984 West Mall Vancouver, BC V6T 1Z2 | **Convener:** Yaman Boluk

10:30–10:50

Poroelastic Modelling Reveals The Cooperation Between Two Mechanisms For Albuminuria

Speaker

Zelai Xu

10:50–11:10

Hydrodynamics and rheology of fluctuating, semiflexible, inextensible, and slender filaments in Stokes flow

Speaker

Prof. Aleksandar Donev

11:10–11:30

TRIBOLOGY AND RHEOLOGY OF HYALURONIC ACID BASED CELLULOSE NANOCRYSTAL SUSPENSIONS

Speaker

Akshai Bose

11:30–11:50

Self-organized cable formation and force transmission in an active vertex model for biological tissues

Speaker

Mingfeng Qiu

11:50–12:10

No talk scheduled

12:10

14:00

Biomaterials and Biological Systems

Session | **Location:** Mathematics Building, Room 104, 1984 Mathematics Rd Vancouver, BC V6T 1Z2 | **Convener:** Dana Grecov

14:00–14:40

KEYNOTE: Bioprinting of collagen hydrogels in supported gel environment

Speaker

Prof. Yaman Boluk

14:40–15:00

EFFECTS OF GELATION CONCENTRATION ON CYCLIC DEFORMATION BEHAVIOR OF POLYSACCHARIDE HYDROGELS

Speaker

Jun-ichi Horinaka

15:00–15:20

TENDON FASCICLE-INSPIRED COLLAGEN MULTIFILAMENT BUNDLE PRODUCED BY MULTI-PIN CONTACT DRAWING OF AN AQUEOUS COLLAGEN-POLYETHYLENE OXIDE SOLUTION**Speaker**

Dr Hessameddin Yaghoobi

15:20–15:40

EFFECT OF HOMOGENIZATION OF RAW MILK ON THE PHYSICAL PROPERTIES OF AGED CHEESE**Speaker**

Prof. Isamu Kaneda

15:40

16:10

Biomaterials and Biological Systems**Session** | **Location:** Mathematics Building, Room 104, 1984 Mathematics Rd Vancouver, BC V6T 1Z2 |**Convener:** Nicky Eshtiaghi

16:10–16:30

Reversal motion of E-coli bacteria in nematic liquid crystals**Speaker**

Dr Martyna Goral

16:30–16:50

DIFFUSION OF LIPID NANOPARTICLES THROUGH AIRWAY MUCUS**Speaker**

Mohammad Reza Rokhforouz

16:50–17:10

Oscillatory microfluidic thromboelastograph (micro-TEG) analysis of whole blood coagulation and fibrinolysis**Speaker**

Prof. SeHyun SHIN

17:10–17:30

SCALE-DEPENDENT RHEOLOGY OF SYNOVIAL FLUID LUBRICATING MACROMOLECULES**Speaker**

Leonardo Martín Alarcón

17:30–17:50

RHEOLOGY OF CORN STOVER SLURRIES UNDERGOING DILUTE-ACID PRETREATMENT**Speaker**

Prof. Joseph Samaniuk

17:50