

7TH FREIBERG COLLAGEN SYMPOSIUM

September, 29-30
2021
Online

- 08.30 Onboarding
- 09.00 Opening with welcome address from Michael Meyer, FILK gGmbH, Freiberg (DE)
- 09.05 Greetings by Ina Prade and Enno Kluever, FILK gGmbH, Freiberg (DE)
- 09.15 **Bioinspired collagen processing and novel biomaterials applications**
Thomas Scheibel, Uni Bayreuth, Bayreuth (DE)
- 10.00 **High-value collagen from hides and skins: An Aotearoa New Zealand perspective**
Sujay Prabakar, LASRA, Palmerstone North (NZ)
- 10.20 **Properties of different poultry skin sources in relation to co - extruded sausage casings**
Patricia Suurs, Marel, Boxmeer (NL), Wageningen University and Research, Wageningen (NL)
- 10.40 Networking - Break
- 11.30 **Collagen applications for soft and hard tissue regeneration with insights into immunogenic degradation patterns**
Mike Barbeck, BerlinAnalytix GmbH, Berlin (DE)
- 11.50 **Cell-free allotransplants**
Ralf Haller, corlife oHG, Hannover (DE)
- 12.10 **Collagen stabilization in the production of autologous living heart valves for children**
Boris Schmitt, Deutsches Herzzentrum Berlin / Charité Universitätsmedizin Berlin, Berlin (DE)
- 12.30 Networking - Break
- 13.35 **Stretching collagen: Mechanoradicals and their biochemical consequences**
Frauke Gräter, Heidelberg Institute for Theoretical Studies, Heidelberg (DE)
- 13.55 **A meso-structure model for complex collagen fiber - bundle networks as basis of numerical simulation of mechanical properties**
Katja Schladitz, Fraunhofer-Institut für Techno- und Wirtschaftsmathematik, Kaiserslautern (DE)
- 14.15 **Nanomechanical and optical collagen - based signatures as cancer biomarkers**
Andreas Stylianou, European University Cyprus, Nicosia (CY)
- 14.35 Networking - Break
- 15.05 **Targeting LOX to visualize collagen remodeling**
Matthew Aronoff, ETH Zürich, Zürich (CH)
- 15.25 **Relative quantification of collagen types**
Birgit Voigt, FILK Freiberg Institute, Freiberg (DE)
- 15.45 **Remodeling of fibrosis - a collagen hybridizing peptide study**
Mike Kirkness, 3Helix Inc., Salt Lake City (US)
- 16.05 End of lecture programme day 1

Wednesday, September 29, 2021

FILK Freiberg Institute

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08.30 Onboarding

09.00 **Collagen structures for regenerative medicine**
Ruth Cameron, University of Cambridge, Cambridge (GB)

09.45 **Crosslinkable gelatins: From bench to bedside**
Sandra van Vlierberghe, Ghent University, Ghent (BE)

10.05 **Collagen yarns for the fabrication of biomimetic collagen fiber scaffolds for tissue engineering and regenerative medicine**
Robert Tonndorf, TU Dresden, Dresden (DE)

10.25 Networking - Break

10.55 **Structures of collagen-based processed biomaterials – a comprehensive concept**
Michael Meyer, FILK Freiberg Institute, Freiberg (DE)

11.15 **Additive manufacturing with thermoplastic collagen**
Enno Klüver, FILK Freiberg Institute, Freiberg (DE)

11.35 **Nonwoven materials with antiseptic properties based on biocompatible polymers and collagen derivatives**
Maksym Koliada, Kyiv University of Technologies & Design, Kyiv (UA)

11.55 Networking - Break

12.55 **Extracellular matrix in vivo - and how to get cultured cells to build it**
Michael Raghunath, ZHAW Zürich, Zürich (CH)

13.40 **Marine collagens on biomaterials for tissue engineering and regenerative medicine**
Tiago H. Silva, University of Minho, Minho (PT)

14.00 **TriAnkle Project: Improving the treatment for all patients suffering from osteoarticular diseases**
Lluis Quintana, Viscofan BioEngineering, Weinheim (DE)

14.20 **Collagen, and not alginate, supports the biological functionality of endothelial cells in 3D printed vascular constructs**
Ina Prade, FILK Freiberg Institute, Freiberg (DE)

14.40 End of 7th Freiberg Collagen Symposium Online

Thursday, September 30, 2021

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