

■ The Freiberg Collagen Symposium was first initiated in 1996. It was supposed to build a platform for knowledge transfer in the research field „Collagen - Recovery, Processing, Modification, Characterization and Application of collageneous materials“ and to enhance the networking of the institute’s scientists with partners and experts of the industry and other research institutions.

Since then, the symposium, taking place every 4 years, has evolved into an established, international meeting point for experts and professionals of different disciplines and industries.

The fields of application of collagen are versatile. With regard to the actual challenges of minimizing the exploitation of fossil resources and avoiding the use of synthetic polymers, collagen as a biopolymer becomes more and more attractive. Recently, it is utilised intensively for medical products and devices, as additive in cosmetic and pharmaceutical products, but also as packaging and coating material and for food products.

Again, the 8th Freiberg Collagen Symposium covers a broad range of topics on various aspects of collagen and its application. The presentations focus on the latest medical research and applications in tissue engineering, provide an insight into the German healthcare system, discuss collagen structure, crosslinking and stability, and report analytical methods, processing techniques and new collagen resources as well as some technical applications of collagen and gelatin.

■ VENUE

Alte Mensa Freiberg
Petersstr. 5, 09599 Freiberg, Germany

■ ORGANISER

FILK Freiberg Institute gGmbH gGmbH
Meißner Ring 1-5, 09599 Freiberg, Germany

■ CONTACT

Dr. Enno Klüver (technical)
+49 3731 366-125 · enno.kluever@filkfreiberg.de
Dr. Ina Prade (technical)
+49 3731 366-180 · ina.prade@filkfreiberg.de

Christin Zingelmann (organisational)
+49 3731 366-124 · christin.zingelmann@filkfreiberg.de

■ PARTICIPATION FEES

Participation fee	550 €
Members of FILK Association	450 €
Members of Universities	300 €
Students	100 €
Speakers	150 €

(Prices incl. proceedings, refreshments, social programme and common dinner)

■ REGISTRATION / CANCELLATION

Please, use the registration form on our website:
www.freibergcollagensymposium.com



Deadline is September 5, 2024. In the case of cancellations received up to 14 days prior to the start of the event, the participation fee will be refunded minus a processing fee of 10 % of the total price, but at least €50. For all later cancellations no refund is possible.

■ ACCOMMODATION

A limited number of rooms you can book under the keyword ‚Collagen Symposium‘ in the following hotels:

Hotel Alekto, Am Bahnhof 3, 09599 Freiberg
(+49 3731 794-0, info@alekto.de)

Hotel Altstadt, Donatsgasse 3, 09599 Freiberg
(+49 3731 20 70 30, info@hotel-freiberg.de)

Hotel Freyhof, Mönchsstraße 1, 09599 Freiberg
(+49 3731 77 50 730, info@hotel-freyhof.de)

Hotel Kreller, Fischerstraße 5, 09599 Freiberg
(+49 3731 35 90 0, kontakt@hotel-kreller.de)

Hotel am Obermarkt, Waisenhausstraße 2, 09599 Freiberg
(+49 3731 26 370, info@hotel-am-obermarkt.de)

■ CONFERENCE LANGUAGES

English

PROGRAMME

8th Freiberg Collagen Symposium
September 19 & 20, 2024
Freiberg / Germany

LECTURE PROGRAMME | THURSDAY, 19.09.2024

- 09.00 Doors open & registration
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- 10.00 Opening & greetings
Dr. Ina Prade, Dr. Enno Klüver, Prof. Dr. Michael Meyer
FILK Freiberg Institute gGmbH (DE)
-
- 10.10 New treatment methods in the German healthcare system related to collagen
Dr. Martin Wieland, Federal Medical Advisory Service, Essen (DE)
-
- 10.55 Networking break
-
- 11.15 The current care situation for patients with chronic wounds in Saxony - complexity of establishing network structures - demands from clinicians on scientists to develop modern wound dressings
Dr. Thomas Grube, Thoracic, vascular and endovascular surgery, Chemnitz Hospital, Chemnitz (DE)
-
- 12.00 Gelatin/Ce-doped bioglass composites for enhancing cellular functions of human mesenchymal stem cells (hMSC)
Dr. Vera Hintze, Max Bergmann Center of Biomaterials, TU Dresden, Dresden (DE)
-
- 12.20 Lunch break
-
- 13.20 Telocollagen - A multipotent biomaterial toolbox for various applications
Michèle Lindner, KBM Kollagen und Biomaterialien für Medizinprodukte GmbH, Wald-Michelbach (DE)
-
- 14.05 Gelatin with designed crosslinking performance for soft capsules
Dr. Paul Pawelzyk, Gelita AG, Eberbach (DE)
-
- 14.25 Networking break
-
- 14.45 Tailored collagen polyelectrolyte multilayer systems: Controlled drug release vs. drug reservoir capabilities
Dr. Uwe Schirmer, iba Biomaterials, Heiligenstadt (DE)
-
- 15.05 Development of a porcine decellularized extracellular matrix (dECM) bioink for 3D bioprinting of meniscus tissue engineering: formulation, characterization and biological evaluation
Prof. Jakub D. Rybka, Adam Mickiewicz Universität, Poznan (PL)

- 15.25 Studying instructive phenotype switching of breast cancer cells at matrix interfaces using biomimetic collagen networks
Cornelia Clemens, Institute of Biochemistry, University Leipzig, Leipzig (DE)

- 15.45 End of lecture programme day 1

SOCIAL PROGRAMME | THURSDAY, 19.09.2024

- 16.00 Freiberg guided city walk

- 18.30 Common dinner at ‚Freiberger Brauhof‘



LECTURE PROGRAMME | FRIDAY, 20.09.2024

- 08.00 Doors open
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- 09.00 Structural and chemical insights into collagen crosslinking
Dr. Sujay Prabakar, LASRA, Palmerston North (NZ)
-
- 09.20 Collagen as a redox-scavenging protein
Nuriza Suleimenova, Heidelberg University, Heidelberg (DE)
-
- 09.40 Site-specific amino acid modification of collagen type I and III extracted from skin of Bos taurus
Dr. Birgit Voigt, FILK Freiberg Institute gGmbH, Freiberg (DE)
-
- 10.00 Networking break
-
- 10.20 Collagen mechanochemical force-structure causality (MFSC) and the emergence of new therapeutic opportunities for molecular collagen
Dr. Jeffrey W. Ruberti, Northeastern University, Boston (US)
-
- 10.40 The thermal behaviour of native collagen; from green to buffered hide
Dr. Stephen Mee, Devro Ltd., Moodiesburn (UK)

- 11.00 Molecular dynamics simulation of collagen denaturation
Anton Ulbricht, FILK Freiberg Institute gGmbH, Freiberg (DE)

- 11.20 Networking break

- 11.40 Mechanical stimulation and monitoring of artificial collagen membranes for Organ-on Chip applications
Dr. Frank Sonntag, Fraunhofer Institute for Material and Beam Technology IWS, Biosystems Engineering, Dresden, Germany

- 12.00 A New Zealand perspective of analytical tools in collagen research: Answering industry's needs and fundamental research questions
Siew Ling Ong, LASRA, Palmerston North (NZ)

- 12.20 Is assessing decellularization by common DNA detection methods a good choice?
Dr. Sandra Stenzel, FILK Freiberg Institute gGmbH, Freiberg (DE)

- 12.40 Lunch break

- 13.40 Jellyfish: An emerging and sustainable collagen source that will satisfy the evolving demands of modern American consumers
Peter Chiarelli, University of Georgia, Food Science and Technology, Griffin (USA)

- 14.00 Potentials of low-energy non-thermal electron beam technology as multifunctional tool for material engineering
Dr. Ulla König, Fraunhofer FEP, Dresden (DE)

- 14.20 Networking break

- 14.40 Gelatin as a sensor material
Prof. Dr. Kathrin Harre, HTW Dresden, Dresden (DE)

- 15.25 To look for a needle in the phantom: ultrasonographic optimized puncture training objects
Dr. Jana Klammer, FZ-U Research Center for Ultrasonics, Halle (DE)

- 15.45 Collagen as biobased component in energy storage devices
Dr. Enno Klüver, FILK Freiberg Institute gGmbH, Freiberg (DE)

- 16.05 End of the 8th Freiberg Collagen Symposium