

Congress & Exhibition

Bioinspired Materials 2026

8th International School and Conference
on Biological Materials Science

04 - 06 Mar 2026

Siegburg/Bonn & online

Chairperson



Prof. Dr. Helge-Otto Fabritius
Hamm-Lippstadt University of Applied
Sciences



Welcome to BioINSPIRE 2026

Welcome to the 8th Bioinspired Materials 2026 Conference, dedicated to the design of functional materials and systems inspired by principles found in living nature.

Inspiration from nature is a key driver of modern materials science, spanning approaches from non-living bioinspired materials to the biologization of materials science. Bioinspired Materials 2026 aims to provide an international, interdisciplinary forum for exchange across biology, chemistry, materials science and engineering, physics, and medicine. The conference focuses on synthetic materials in which structure–property and/or structure–function relationships are transferred from natural materials or living organisms. Central topics include the formation and implementation of hierarchical structures and the resulting properties of complex biological architectures. Particular attention is given to

sustainability-related advances enabled by such materials.

A further major theme is the transfer of biological principles to adaptive and autonomous functional materials and systems composed of organic and/or inorganic components. Beyond synthesis and fabrication, the program covers research on structural and functional material properties, interactions of bioinspired materials with living environments (for example tissues and organs), and medically relevant applications. Contributions addressing bioinspired actuation, artificial intelligence, biohybrid systems, and sustainability are especially encouraged.

The program committee wishes all participants an inspiring and productive conference, and looks forward to fruitful discussions and a stimulating atmosphere throughout the meeting.

Chairperson



Prof. Dr. Helge-Otto Fabritius
Hamm-Lippstadt University of Applied Sciences

Vice Chairperson



Prof. Dr. Claudia Fleck
TU Berlin

Program Committee



Prof. Dr. Aránzazu del Campo Bécáres
INM Leibniz Institute for New Materials



Prof. Dr. Stanislav N. Gorb
Kiel University



Prof. Dr. Thomas Scheibel
University of Bayreuth



Prof. Dr. Christine Selhuber-Unkel
Heidelberg University



Prof. Dr. Silvia Vignolini
Max Planck Institute of Colloids and Interfaces



Prof. Dr. Cordt Zollfrank
Technical University of Munich

Program

04 Mar 2026 (Wed)

Room 1

Opening

10:50 AM General
Opening

Plenary Talk - Session I

Session Chairs: *Prof. Dr. Christina Wege (University of Stuttgart)*

11:10 AM Plenary Speakers

Build on and with Funga: Paths into a new material future and material culture

Meyer, V. (Speaker)¹

¹TU Berlin

Engineered biohybrid living materials - Session I

Session Chairs: *Prof. Dr. Christina Wege (University of Stuttgart)*

11:50 AM Lecture

Synthetic Cell-Based Tumor Immune Microenvironments: A Step-by-Step Approach Towards Building Tumor Immunology from the Bottom-Up

Staufer, O. (Speaker)¹

¹Leibniz-Institut für Neue Materialien gGmbH, Saarbrücken

12:10 PM Lecture online

Mimicking cellular DNA density to achieve programmable multi-protein machine assembly on a chip

Levy, M. (Speaker)¹; Bloch, N.¹; Falkovich, R.²; Daube, S.³; Bar-Ziv, R.³

¹Technion - Israel Institute of Technology, Haifa (Israel); ²Massachusetts Institute of Technology, Cambridge (United States); ³Weizmann Institute of Science, Rehovot (Israel)

12:30 PM Lecture

Integrating Vibrio natriegens for photon manipulation in living lighting devices

Liss, P.-Q. (Speaker)¹

¹Technical University of Munich, Straubing

12:50 PM Lecture

Accelerated Design of Living Wood Composite Materials

Weber, W. (Speaker)¹

¹INM Leibniz Institute for New Materials, Saarbrücken

Plenary Talk - Session II

2:00 PM Plenary Speakers

Living Marine architecture: how corals use minerals to shape their environment.

Mass, T. (Speaker)¹

¹University of Haifa

Biom mineralisation-inspired materials and systems - Session I

3:00 PM Lecture

Biogenic Silica from Microalgae: Tailoring Photonic Properties Through Cellular Growth

López García, M. (Speaker)¹

¹Spanish National Research Council, madrid (Spain)

3:20 PM Lecture

Confinement-directed mineralization of cobalt(II,III) oxide meso- and nanostructures

Sedlmeir, A. (Speaker)¹

¹University of Bayreuth

3:40 PM Lecture

Bioinspired Magnetosome Infused Gels for Advanced Applications

Rehman, S.u. (Speaker)¹

¹Hefei institutes of Physical sciences, Chinese academy of sciences, hefei (China)

Biom mineralisation-inspired materials and systems - Session II

4:30 PM Lecture online

Dental Calculus as a Bioinspiration for Adhesion

Hamsho, A.R.¹; Zorzetto, L.²; Raguin, E.²; Scoppola, E.²; Werner, P.²; Paris, S.¹; Bidan, C.M. (Speaker)²

¹Charité - Universitätsmedizin Berlin; ²Max Planck Institute of Colloids and Interfaces, Potsdam

Complex-shaped biological materials - Session I

4:50 PM Lecture

A 'green' plant virus-based immobilization platform: multivalent capture coatings for biofunctional 3D materials

Wege, C. (Speaker)¹

¹University of Stuttgart

Hierarchical materials and structures (inorganic/organic) - Session I

5:10 PM Lecture

Unbreakable by Design: Structure and Mechanics of Pili Nuts

Ali, S.A. (Speaker)¹; Fleck, C.¹; Mylo, M.D.²; Perrin, J.³; Speck, T.²; Weikamp, T.³

¹Technische Universität Berlin; ²Universität Freiburg; ³Synchrotron SOLEIL, Saint-Aubain (France)

5:30 PM Lecture

Tensile properties of single-and multi-type mixed fibre bundles of spider silk

Promnil, S. (Speaker)¹; Jani, M.¹; Liprandi, D.¹

Heinz, P.¹; Wolff, J.¹

¹Universität Greifswald

5:50 PM Lecture

Blue coloration in the newly described electric blue tarantula
Ruangchai, S. (Speaker)¹
¹Khon Kaen University

Foyer/Extern

Breaks

1:10 PM - 2:00 PM

Lunch Break

4:00 PM - 4:30 PM

Coffee Break

Conference Dinner

7:00 PM General

Conference Dinner @ Siegburger Brauhaus,
Holzgasse 37 - 39, 53721 Siegburg

05 Mar 2026 (Thu)

Room 1

Opening

9:00 AM General

Opening - Second Day

Bioinspired/biomimetic materials (inanimate/animate)- Session I

Session Chairs: *Prof. Dr. Thomas Speck (University of Freiburg)*

9:10 AM Lecture

The multiple functions of snail mucus: inspiring the design of novel sustainable materials

Gabler, M.¹; Renner-Rao, M.¹; Oh, N.¹; Raguin, E.¹; Scoppola, E.¹; Steigenberger, B.²; Yeroslaviz, A.²; Fratzl, P.¹; Jehle, F. (Speaker)¹

¹Max Planck Institute of Colloids and Interfaces, Potsdam; ²Max Planck Institute of Biochemistry, Martinsried

Complex-shaped biological materials - Session II

Session Chairs: *Prof. Dr. Thomas Speck (University of Freiburg)*

9:30 AM Lecture

Characterizing Catshark Skin Traits for the Development of Multifunctional Denticle-Inspired Composites

Mai, N.P.U. (Speaker)¹; Ghimire, A.²; Chen, P.-Y.¹
¹National Tsing Hua University, Hsinchu (Taiwan);
²National Taiwan University, Taipei (Taiwan)

Bioinspired/biomimetic materials (inanimate/animate)- Session II

Session Chairs: *Prof. Dr. Thomas Speck (University of Freiburg)*

9:50 AM Lecture

Transfer of moth eye structures by in-mould functionalization to improve antireflective properties of plastic parts

Vehlow, D. (Speaker)¹; Kanzler, J.²; Nagel, J.¹

¹Leibniz Institute of Polymer Research Dresden;

²KTF Kunststofftechnologie Franken GmbH, Engelthal

10:10 AM Lecture

Dragonfly-Inspired Flapping Wing Fabrication Using PVDF/CNT

Nanocomposite Membranes and 3D-Printed Vein Structures

Gujar, V. (Speaker)¹

¹IT Madras, Chennai (India)

10:30 AM Lecture

Dynamic Wrinkle Patterns: From Experimental and Simulating Aspects to Applicability in Study of Cell Migration Context

Cao, K. (Speaker)¹

¹Centre national de la recherche scientifique (CNRS), Mulhouse (France)

Hierarchical materials and structures (inorganic/organic) - Session II

Session Chairs: *Prof. Dr. Cordt Zollfrank (Technical University of Munich)*

11:20 AM Lecture

Bioinspired Hierarchical Porous Ceramics via Continuous Freeze-Casting of TiO₂ Suspensions: Microstructural Characterization and Structure-Property Relationships.

Lolos, C. (Speaker)¹; Mylonas, G.¹; Paradela, P.F.²; Zaslansky, P.²; Fleck, C.¹

¹Technische Universität Berlin; ²Charité - Universitätsmedizin Berlin

11:40 AM Lecture

Interface Fracture of Composite Materials with Hierarchically Structured Components
Pyka, L. (Speaker)¹; Greff, C.¹; Moretti, P.¹; Zaiser, M.¹

¹Friedrich-Alexander-Universität Erlangen-Nürnberg

Bioinspired/biomimetic materials (inanimate/animate)- Session III

Session Chairs: *Prof. Dr. Cordt Zollfrank (Technical University of Munich)*

12:00 PM Lecture

Tough nanocomposite laminates inspired by the structure of bamboo

Wetzel, B. (Speaker)¹; Akpan, E.¹; Klingler, A.¹

¹Leibniz-Institut für Verbundwerkstoffe GmbH, Kaiserslautern

Sustainability through bioinspiration – synthesis and properties - Session I

Session Chairs: Prof. Dr. Cordt Zollfrank (Technical University of Munich)

12:20 PM Lecture online

A Novel Approach to Produce Nature-Inspired Customizable and Sustainable Lower Limb Prosthetics Using Winding Techniques

Dutta, G.S. (Speaker)¹; Tschentscher, C.¹; Imrich, S.¹

¹Technische Universität Clausthal, Clausthal-Zellerfeld

12:40 PM Lecture

Analytical and experimental characterization of the material behavior of laminated bamboo lumber

Franck, P. (Speaker)¹; Bletz-Mühldorfer, O.¹; Bathon, L.¹; Walther, F.²

¹Hochschule RheinMain, Wiesbaden; ²TU Dortmund University

Poster Pitch - Session

2:10 PM Poster-Pitch-Presentation #A-51

Mimicking the tendon motion using two-dimensional structures obtained by 3D printer.

Juarez Estrada, M.A. (Speaker)¹; Masia, L.²; Selhuber-Unkel, C.¹; Sessler, F.¹

¹Heidelberg University; ²Technical University of Munich

2:13 PM Poster-Pitch-Presentation #B-16

Bio-Inspired Composites by Electric Field Alignment of Nanofillers

Stadlbauer, F. (Speaker)¹

¹University of Natural Resources and Life Sciences (BOKU), Vienna

2:16 PM Poster-Pitch-Presentation #B-47

Enhancing Granular Hydrogel Stability via Surface Modulation for Improved Frictional Inter-Particle Interactions

Tavoosi, N. (Speaker)¹; Mongeau, L.¹

¹McGill University, Montreal (Canada)

2:19 PM Poster-Pitch-Presentation #B-31

Breaking the Shell: Hierarchical Structure of Pili Nuts (Canarium ovatum)

Ali, S.A. (Speaker)¹; Mylo, M.D.²; Perrin, J.³; Weitkamp, T.³; Speck, T.²; Fleck, C.¹

¹Technische Universität Berlin; ²Universität Freiburg; ³Synchrotron SOLEIL, Saint-Aubin (France)

2:22 PM Poster-Pitch-Presentation #B-42

Atlantic wolfish teeth exhibit Auxeticity (negative Poisson's ratio) due to the microarchitecture of their osteodentin

Zaslansky, P. (Speaker)¹; Shahar, R.²

¹Charité - Universitätsmedizin Berlin; ²The Hebrew University of Jerusalem, Rehovot (Israel)

2:25 PM Poster-Pitch-Presentation #A-43

Bioinspired Polymer-Ceramic Composite Scaffolds for Bone Regeneration: Additive Manufacturing by Powder Bed Fusion and Material Extrusion

Schmidt, F. (Speaker)¹

¹Charité - Universitätsmedizin Berlin

2:28 PM Poster-Pitch-Presentation #C-35

The cemento-dentine-junction: insights from a natural interface with impressive fatigue resistance

Ali, A.M.¹; Carstens, M.²; Paris, S.²; Zaslansky, P.²; Fleck, C. (Speaker)¹

¹TU Berlin; ²Charité - Universitätsmedizin Berlin

2:31 PM Poster-Pitch-Presentation #B-40

In Situ Nanotomography: An Advanced Method for Characterizing Biological and Bioinspired Materials

Flenner, S. (Speaker)¹; Hesse, L.²; Nopens, M.³; Schaber, C.⁴; Zeller-Plumhoff, B.¹; Greving, I.¹

¹Helmholtz-Zentrum hereon GmbH, Geesthacht; ²Universität Hamburg; ³Thünen Institute of Wood Research, Hamburg; ⁴CAU Kiel

2:34 PM Poster-Pitch-Presentation #A-56

Modified spider silk based films and foams for biomedical applications

Sponbrucker, M. (Speaker)¹

¹University of Bayreuth

2:37 PM Poster-Pitch-Presentation #A-69

Bioinspired molecular interactions and architectures to control interfacial forces

Banquy, X. (Speaker)¹

¹Université de Montréal, Montreal (Canada)

2:40 PM Poster-Pitch-Presentation #A-70

Using fatty acids as additives to modulate the physicochemical properties of cationic vesicles for drug delivery applications

Lee, W.-C.¹; Chang, H.-J.¹; Mondal, S.¹; Chang, C.-H. (Speaker)¹

¹National Cheng Kung University, Tainan (Taiwan)

2:43 PM Poster-Pitch-Presentation #A-72

Biomimetic bottlebrush polymers for cartilage lubrication and regeneration in osteoarthritis

Raj, W. (Speaker)¹; Banquy, X.¹

¹Université de Montréal

2:46 PM Poster-Pitch-Presentation #I-73

Synthetic Lymph Node Models to Study Extra- and Intercellular Signalling in Chronic Lymphocytic Leukemia

Madureira, S. (Speaker)¹; Stauffer, O.¹

¹INM Leibniz Institute for New Materials, Saarbrücken

2:49 PM Poster-Pitch-Presentation #I-76

Colloidosomes As a Mechanically Robust Microencapsulation Format for Therapeutic Bacteria

Ragno, M.S. (Speaker)¹; Stauffer, O.¹

¹INM Leibniz Institute for New Materials, Saarbrücken

2:52 PM Poster-Pitch-Presentation online #F-11
Bioinspired surface strategies to prevent cell adhesion increasing efficiency of microfluidic applications
Gaissert, N. (Speaker)¹
¹Technische Hochschule Nürnberg Georg Simon Ohm

Poster Session

2:55 PM General
Poster Session & Coffee Break

Plenary Talk - Session III

Session Chairs: *Dr. Isabela Vitienes (Charité - Universitätsmedizin Berlin)*

4:20 PM Plenary Speakers
Bioinspired (Hydration-Responsive) Colloidal Systems: Structure, Dynamics & Applications
Schenk, A. (Speaker)¹
¹University of Bayreuth

Sustainability through bioinspiration – synthesis and properties - Session II

Session Chairs: *Dr. Isabela Vitienes (Charité - Universitätsmedizin Berlin)*

5:00 PM Lecture
Impact of forming and extreme climatic conditions on the performance capability of all-cellulose composite vulcanized fiber
Delp, A. (Speaker)¹; Kuder, K.¹; Melka, F.S.E.¹; Breitfeld, T.²; Winter, S.²; Wüstner, C.³; Thomas, M.³; Walther, F.¹
¹TU Dortmund University; ²Fraunhofer Institute for Machine Tools and Forming Technology (IWU), Chemnitz; ³PTS – Institut für Fasern & Papier gGmbH, Heidenau

5:20 PM Lecture
Additive Manufacturing & Fungal Mycelium
Chen, H.¹; Schmidt, B.¹; Gennett, A.¹; Freidank-Pohl, C.¹; Meyer, V.¹; Gurlo, A.¹; Simon, U. (Speaker)¹
¹TU Berlin

Life-inspired systems - Session I

Session Chairs: *Dr. Isabela Vitienes (Charité - Universitätsmedizin Berlin)*

5:40 PM Lecture
Bioninspired materials systems and design for microfiber filters, façade shading systems and soft robots
Speck, T. (Speaker)¹
¹University of Freiburg

Foyer/Extern

Breaks

10:50 AM - 11:20 AM
Coffee Break

1:10 PM - 2:10 PM
Lunch Break

General

1:00 PM General
Group Picture

06 Mar 2026 (Fri)

Room 1

Opening

9:00 AM General
Opening - Last Day

Plenary Talk - Session IV

Session Chairs: *Prof. Dr. Claudia Fleck (TU Berlin), Prof. Dr. Christine Selhuber-Unkel (Heidelberg University)*

9:10 AM Plenary Speakers
Nature's Blueprint: Water-Enabled Functionality in Hierarchical Materials
Huber, P. (Speaker)¹
¹Hamburg University of Technology & Deutsches Elektronen-Synchrotron DESY

FOR 5657 - Session

Session Chairs: *Prof. Dr. Claudia Fleck (TU Berlin), Prof. Dr. Christine Selhuber-Unkel (Heidelberg University)*

9:50 AM FOR 5657 - Lecture
FOR 5657 BioAntiFatigue: Introduction to the research group
Fleck, C. (Speaker)¹
¹TU Berlin

9:55 AM FOR 5657 - Lecture
Inspiration from Corals: Porous Design for Ceramic Toughness
Vitienes, I. (Speaker)¹; Harnay, P.²; Mass, T.²; Zaslansky, P.¹
¹Charité - Universitätsmedizin Berlin; ²Leon H. Charney School of Marine Sciences, University of Haifa

10:02 AM FOR 5657 - Lecture
Optimization of mechanical properties of bioactive glasses mimicking the anti-fatigue properties of corals - first results of structural and mechanical analysis
Bartosch, M. (Speaker)¹; Yassine, J.¹; Schmidt, F.¹
¹Charité - Universitätsmedizin Berlin

10:10 AM FOR 5657 - Lecture
Enamel-Inspired Water-Glass Composites and their Structure-Functional relationship
Arooj, A. (Speaker)¹; Papatheodorou, A.¹; Babadjanov, F.²; von Stein-Lausnitz, M.²; Görke, O.¹
¹TU Berlin; ²Charité-Universitätsmedizin Berlin

10:21 AM FOR 5657 - Lecture
The nanocrystals of anosteocytic fish bone contain gradients of impurities and mineral lattice strains
Lizzi, F. (Speaker)¹; Boccaccini, A.²; Fleck, C.¹; Unalan, I.²; Zaslansky, P.³
¹TU Berlin; ²University of Erlangen-Nuremberg; ³Charité Universitätsmedizin, Berlin

10:28 AM FOR 5657 - Lecture

Fatigue Resistance of Hierarchical Scaffolds Bioinspired by Fishbone

Unalan, I. (Speaker)¹; Damian-Budaa, A.-I.¹; Cortez, C.¹; Fleck, C.²; Boccaccini, A.R.¹

¹Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU); ²University of Technology Berlin

10:36 AM FOR 5657 - Lecture

Fatigue cracks in wood: Do trees get tired of shaking?

Antreich, S. (Speaker)¹

¹Technical University of Munich, Freising

10:43 AM FOR 5657 - Lecture

Humidity-driven self-folding and fatigue characteristics of inorganic bilayer composite materials

Reiß, P. (Speaker)¹; Gruen, V.¹; Herz, P.¹; Antreich, S.J.²; Eder, M.²; Fleck, C.³; Schenk, A.¹

¹Universität Bayreuth; ²Technische Universität München, Freising; ³Technische Universität Berlin

Sustainability through bioinspiration – synthesis and properties – Session III

Session Chairs: Dr.-Ing. Franziska Schmidt (Charité - Universitätsmedizin Berlin)

11:20 AM Lecture online

Screening bioinspired surface topologies to Minimizing Ice Formation in Heat Exchangers for Sustainable Energy Systems

Gaissert, N. (Speaker)¹

¹Technische Hochschule Nürnberg Georg Simon Ohm

11:40 AM Lecture

Bioinspired strategies for robust solid-state batteries: A review

Yang, L. (Speaker)¹; Wang, Z.¹; Fleck, C.¹

¹TU Berlin

12:00 PM Lecture

Fluorescent Protein Solid-State Luminescent Solar Concentrator

Lei, S. (Speaker)¹

¹Technical University of Munich, STRAUBING

12:20 PM Lecture

Fully Biogenic Phycobiliprotein-Cellulose coatings Toward Stable Protein-based Lighting systems

Hasler, M. (Speaker)¹

¹Technical University of Munich, Straubing

Autonomous functional materials and systems – Session I

Session Chairs: Dr.-Ing. Franziska Schmidt (Charité - Universitätsmedizin Berlin)

12:40 PM Lecture

Light matters: The photoresponsive properties of chitosan(s) with an azobenzene

von Seggern, N.¹; Thiebes, Y.²; Cord-Landwehr, S.³; Niewa, R.²; Stegbauer, L. (Speaker)⁴

¹Universität Stuttgart, IGVP; ²Universität Stuttgart;

³Universität Münster; ⁴TU Bergakademie Freiberg

Closing

1:00 PM General

Closing

Foyer/Extern

Breaks

10:50 AM - 11:20 AM

Coffee Break

Poster

A: Bioinspired/biomimetic materials (inanimate/animate)

A-43 Poster-Pitch-Presentation

Bioinspired Polymer–Ceramic Composite Scaffolds for Bone Regeneration: Additive Manufacturing by Powder Bed Fusion and Material Extrusion

Schmidt, F. (Speaker)¹

A-51 Poster-Pitch-Presentation

Mimicking the tendon motion using two-dimensional structures obtained by 3D printer.

Juarez Estrada, M.A. (Speaker)¹; Masia, L.²; Selhuber-Unkel, C.¹; Sessler, F.¹

A-56 Poster-Pitch-Presentation

Modified spider silk based films and foams for biomedical applications

Sponbrucker, M. (Speaker)¹

A-69 Poster-Pitch-Presentation

Bioinspired molecular interactions and architectures to control interfacial forces

Banquy, X. (Speaker)¹

A-70 Poster-Pitch-Presentation

Using fatty acids as additives to modulate the physicochemical properties of catanionic vesicles for drug delivery applications

Lee, W.-C.¹; Chang, H.-J.¹; Mondal, S.¹; Chang, C.-H. (Speaker)¹

A-72 Poster-Pitch-Presentation

Biomimetic bottlebrush polymers for cartilage lubrication and regeneration in osteoarthritis

Raj, W. (Speaker)¹; Banquy, X.¹

A-74 Poster online

Dual porosity hybrid PCL/Chitosan Scaffolds obtained via 3D Printing for Periodontal Regeneration and Antibacterial Performance

Zanfardino, A.¹; Gloria, A.¹; Peluso, V.²; Scialla, S.²; Castagliuolo, G.¹; De Santis, R.²; Varcamonti, M.¹; Russo, T. (Speaker)²

B: Hierarchical materials and structures (inorganic/organic)

B-16 Poster-Pitch-Presentation

Bio-Inspired Composites by Electric Field Alignment of Nanofillers

Stadlbauer, F. (Speaker)¹

B-31 Poster-Pitch-Presentation

Breaking the Shell: Hierarchical Structure of Pili Nuts (*Canarium ovatum*)

Ali, S.A. (Speaker)¹; Mylo, M.D.²; Perrin, J.³; Weitkamp, T.³; Speck, T.²; Fleck, C.¹

B-40 Poster-Pitch-Presentation

In Situ Nanotomography: An Advanced Method for Characterizing Biological and Bioinspired Materials

Flenner, S. (Speaker)¹; Hesse, L.²; Nopens, M.³; Schaber, C.⁴; Zeller-Plumhoff, B.¹; Greving, I.¹

B-42 Poster-Pitch-Presentation

Atlantic wolfish teeth exhibit Auxeticity (negative Poisson's ratio) due to the microarchitecture of their osteodentin

Zaslansky, P. (Speaker)¹; Shahar, R.²

B-47 Poster-Pitch-Presentation

Enhancing Granular Hydrogel Stability via Surface Modulation for Improved Frictional Inter-Particle Interactions

Tavoosi, N. (Speaker)¹; Mongeau, L.¹

C: Complex-shaped biological materials

C-35 Poster-Pitch-Presentation

The cemento-dentine-junction: insights from a natural interface with impressive fatigue resistance

Ali, A.M.¹; Carstens, M.²; Paris, S.²; Zaslansky, P.²; Fleck, C. (Speaker)¹

C-75 Poster

Seed Mucilage Components and Their Contribution to Mucilage Structure and Adhesion

Gorges, H. (Speaker)¹; Büscher, T.H.¹; Gorb, S.N.¹; Kovalev, A.¹

F: Interaction of bioinspired synthetic materials with living environments

F-11 Poster-Pitch-Presentation online

Bioinspired surface strategies to prevent cell adhesion increasing efficiency of microfluidic applications

Gaissert, N. (Speaker)¹

F-79 Poster

Towards conductive polymeric 3D scaffolds via 2-photon lithography

Hämmerle, M.M. (Speaker)¹; Grassinger, S.¹; Kalkus, T.¹; Schmidt, M.¹; Selhuber-Unkel, C.¹

I: Engineered biohybrid living materials

I-73 Poster-Pitch-Presentation

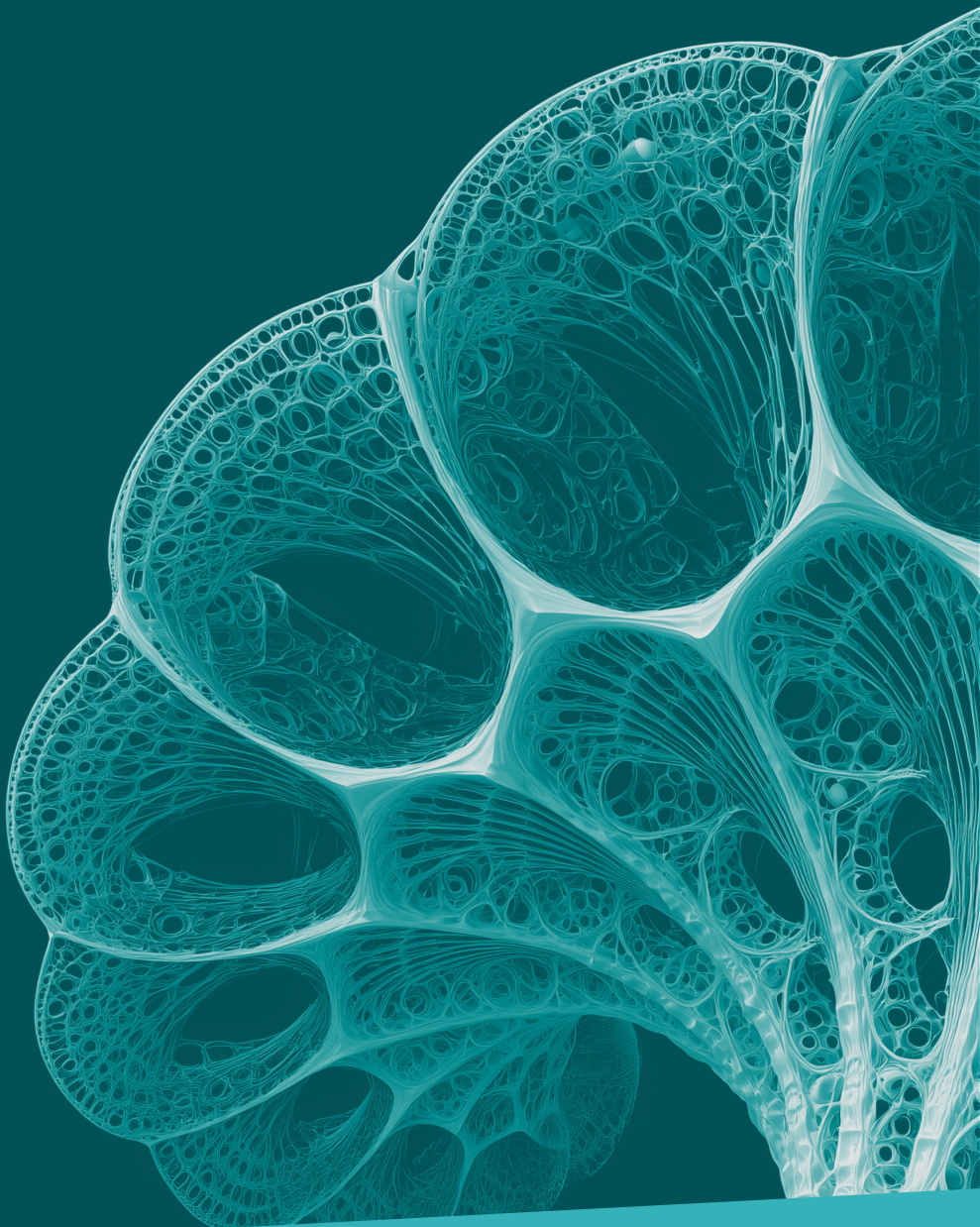
Synthetic Lymph Node Models to Study Extra- and Intercellular Signalling in Chronic Lymphocytic Leukemia

Madureira, S. (Speaker)¹; Staufer, O.¹

I-76 Poster-Pitch-Presentation

Colloidosomes As a Mechanically Robust Microencapsulation Format for Therapeutic Bacteria

Ragno, M.S. (Speaker)¹; Staufer, O.¹



DGM - Deutsche Gesellschaft für Materialkunde e.V., Kamillenweg 16-18, 53757 Sankt Augustin
Präsident/President: Prof. Dr.-Ing. Gunther Eggeler, Ruhr Universität Bochum
Präsident/President: Dr.-Ing. Till Schneiders, Stemcor Special Products GmbH
Geschäftsführer/General Manager (§30 BGB): Dr. Stefan Klein
Registergericht: Amtsgericht Frankfurt, Registernummer: VR 11655, UST-Id. DE 111 292 466

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