

SESSION IV - EXTRACELLULAR VESICLES AND MICROBIOME

- Chair: Désirée Gül
- 13.30 KEYNOTE LECTURE
Loading of Mesenchymal Stem Cell-Derived Exosomes with Anti-Cancer Nanomaterials
Mohamed Kishta, Cairo, Egypt
- 14.00 Bacterial EVs as Cell-free Antigen Carrier
Gregor Fuhrmann, Erlangen, Germany
- 14.20 Mechanism and Potential Application of Microbe-Microbe Killing
Daniel Unterweger, Munich, Germany
- 14.40 "Small Talk"- Bacterial Communication and its Application in Drug Research
Ralf Heermann, Mainz, Germany
- 15.00 Acoustochromatography: EV Enrichment and Subpopulation Isolation from Microliter Volumes of Diverse Biological Samples
Michael Gerlt, Heidelberg, Germany
- 15.20 Extracellular Vesicles as Bionanoparticles: From Disease to Therapeutic Vehicles
Jamal Ghanam, Essen, Germany

15.40 COFFEE BREAK

SESSION V - FROM BENCH TO BEDSIDE - CLINICAL APPLICATIONS

- Chair: Shirley Knauer
- 16.00 Nanomedicines Enabling Combination Therapies against Mycobacterial Infections
Matthias Barz, Leiden, Netherlands
- 16.30 Vitamin D: Translating Molecular Insights into Therapeutic Opportunities
Aya Khamis, Alexandria, Egypt
- 16.50 From Natural Product to Biomaterial - Translational Development of Microbiome-Modulating and Oxygen-Releasing Drug Delivery Systems for Periodontitis Therapy
Lena Müller-Heupt, Mainz, Germany
- 17.10 Rational Protein Design of Nanobody-bioPROTACs and Mimicry Proteins to Target the "Undruggable" Protein Survivin
Mike Blüggel, Essen, Germany
- 17.30 Packaged by Bacteria: EVs as Smart Carriers for Next-Generation Therapies
Désirée Gül, Mainz, Germany

17.45 TIME TO SAY GOODBYE
Concluding Remarks & End



102H

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Invitation and Program Flyer

15th Galenus International Workshop

October, 8 - 9 2026

Unser Wissen für Ihre Gesundheit



15th Galenus International Workshop

Dear Colleagues,

Although nanomedicine, natural product research, and microbiome science are advancing rapidly, their integration into translational pharmaceutical strategies remains limited. Key challenges include insufficient cross-disciplinary exchange, limited standardization of emerging nanocarriers, and gaps between experimental innovation and clinical implementation. The 15th Galenus International Workshop addresses these challenges by providing a focused forum that integrates these domains within a pharmaceutical framework.

We are happy to welcome you in Mainz and wish you informative and insightful two days full of connection and conversation!

Best Regards,

Désirée Gül, Roland Stauber and Nina Kummer

Program Thursday, October 8th

11-13.00	Registration & Arrival
13.00	Opening Désirée Gül & Désirée Sonntag

SESSION I - OPENING PERSPECTIVES

Chair: Christel Müller- Goymann	
13.10	KEYNOTE LECTURE GMP Production for Clinical Trial Investigations Peter Langguth, Mainz, Germany
13.50	The Function of the Helicobacter Pylori Oncoprotein CagA in Immune Cells Silja Wessler, Salzburg, Austria
14.10	Bioinspired Protein and Peptide Nanomaterials: Design, Functionalization and Applications Mehmet Odabasi, Aksaray, Türkiye
14.30	Tumor Acidity-Activated Nanomedicine for PKM2 Downregulation: Towards Metabolism- Targeted Cancer Therapy Guo-Bin Ding, Hohhot, China
14.50	Microbiome and Cholangitis in Biliary Atresia Anjan Kumar Dhua, New Delhi, India

15.10	COFFEE BREAK
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SESSION II - SCIENCE PITCH SESSION FOR EARLY CAREER SCIENTISTS

Chair: Désirée Gül	
16.00	Insights into Salivary EVs- their Potential as Biomarkers for Oral Malignancies Nina Kummer
16.10	Understanding and Targeting Staphylococcus aureus in CTCL: Insights into Protein A-IgG Binding Kinetics and Antibiotic Synergies Nazzareno Dominelli
16.20	AF4-SAXS: An innovative Tool for Size-Resolved Structural Analysis of NPs for Drug Delivery Bastian Kolb
16.30	Acetylation-dependent Control of SIAH2 links JAK2V61F to Mitochondrial Respiration and ROS-associated Apoptosis Al-Hassan Mohammad Mustafa
16.40	Biomimetic Nanoparticles for Cardiovascular Diseases Mina Mehanny
16.50	Engineering Probiotic Nanocarriers Betül Uluca
17.00	"What if things don't work out as planned?" - Thinking about life beyond the bench Jonathan Mueller

18 - 21.00	Symposium Social An Evening of Conversation & Connection
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Program Friday, October 9th

SESSION III - NANOMEDICINE AND NATURAL COMPOUNDS

Chair: Mehmet Odabasi	
09.15	KEYNOTE LECTURE Unravel Hidden Complexity at Buried Soft Bio-Interfaces Wuge Briscoe, Bristol, UK
10.00	TaNing Taspase 1: Nanobody-Mediated Detection and Modulation of Protease Activity Shirley Knauer, Essen, Germany
10.20	Biomedical and Pharmaceutical Developments on Sulfo-Conjugates Jonathan Mueller, Birmingham, UK
10.40	Nanotechnology-Enabled Blood Biomarker Discovery Marilena Hadjidemetriou, Manchester, UK
11.00	COFFEE BREAK
Chair: Roland Stauber	
11.30	Multi-Targeted Strategies for Biofilm-Associated Infections: Nanocarriers and Biomaterial Hybrids Demet Erdönmez, Düzce, Türkiye
11.50	Engineering Self-Assembling Protein Nanostructures Ömür Acet, Tarsus, Türkiye
12.10	Revealing CCPO Shapes with SAXIS: From Form to Function Jaka Snoj, Ljubljana, Slovenia
12.30	LUNCH