

# Advanced biomaterial solutions for enhanced performance of medical devices

September 12–13, 2023  
Darmstadt, Germany



# OVERVIEW

September 12-13, 2023

## VENUE

Darmstadtium  
Schloßgraben 1  
64283 Darmstadt, Germany

## PARTICIPATION FEE

Free of charge

## WORKSHOP LANGUAGE

English

## ACCOMMODATION

There are several nearby hotels. For further information please see the registration page.

## GET-TOGETHER DINNER

All workshop participants are cordially invited to join us for a relaxed dinner on September 12. For further details, please see our confirmation e-mail.

## REGISTRATION



Due to the high interest and limited seats at our workshops we recommend the timely registration through our **registration page**.

## REGISTRATION DEADLINE

August 1, 2023

## QUESTIONS?

In case of questions regarding the workshop or your travel planning please, do not hesitate to contact Mrs. Behiye Ünlü (behiye.uenlue@evonik.com).

# PROGRAM DAY 1

**Tuesday, September 12**

08.30 **Registration & Welcome Coffee (Foyer 3.11)**

09.00 **Welcome & Introduction**  
*Dr. Andreas Karau (Evonik Health Care)*

## FROM CHEMISTRY TO BREAKTHROUGH IMPLANTABLE MEDICAL DEVICES

09.30 **Trends in biofunctional polymers for medical applications**  
*Dr. Cécile Boudot (Evonik Health Care)*

10.15 **New PEEK solutions to the global trends for medical implants**  
*Marc Knebel (Evonik High Performance Polymers) /  
Dr. Philip Engel (Evonik High Performance Polymers)*

11.00 **Coffee Break**

## UNFOLD MATERIAL PERFORMANCE WITH ADVANCED PROCESSING TECHNOLOGIES

11.30 **Improving patient outcome with 3D-printing of high-performance and biofunctional polymers**  
*Dr. Stefan Leonhardt (Kumovis GmbH – a 3D Systems company)*

12.15 **Unleash Your Potential: Empowering your development with our service support!**  
*Felix Hofmann (Evonik Health Care)*

13.00 **Lunch Break**

14.30 **Innovative, textile-based resorbable implants**  
*Dr. Sven Oberhoffner (ITV Denkendorf Produktservice GmbH)*

15.15 **Electrospinning and electrospraying with RESOMER®**  
*Lars Markwort, PhD (Bioinicia SL)*

16.00 **Coffee Break**

## INNOVATIVE SOLUTIONS WITH NATURE IDENTICAL MATERIALS

16.30 **VECOLLAN® Non animal derived collagen platform for medical products**  
Case study using bioprinting in cooperation with Blackdrop GmbH  
*Dr. Maria Montero Mirabet (Evonik Health Care) /  
Prof. Dr. Andreas Bläser (Blackdrop GmbH)*

17.15 **End of Day 1**

19.00 **Invitation for Dinner**

# PROGRAM DAY 2

Wednesday, September 13

08.30 **Transfer to Evonik Laboratories**

09.00 **Practical Demonstrations at Evonik Laboratories:**

- Compounding RESOMER® with osteoconductive inorganic fillers
- Forming RESOMER® based implants using injection molding
- Building of bioresorbable membranes via electrospinning
- Using bioinks in a 3D-bioprinter
- Customizing Vecollan® non animal derived collagen to complex scaffolds

11.45 **Transfer Back to Darmstadtium**

12.15 **Lunch Break @Darmstadtium**

## MORE THAN IMPLANTS: ADVANCED TECHNOLOGIES FOR BOOSTING MEDICAL DEVICE PERFORMANCE

13.15 **Endexo® – Surface modification technology for enhanced biocompatibility of medical devices**

*Jeannette Ho* (Evonik Health Care)

14.00 **biocellic® – Discovering biosynthetic cellulose as platform material for medical applications**

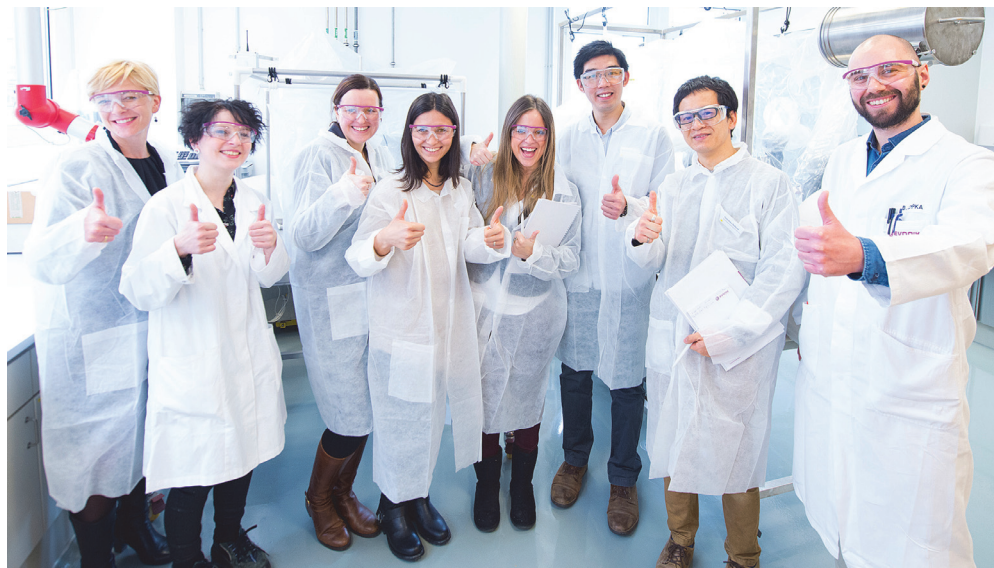
*Dr. Uwe Beekmann* (JeNaCell, an Evonik company)

14.45 **Time for individual One-on-One Conversations & Coffee Networking Sessions**

- End of workshop-

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**Leading Beyond Chemistry**