

Opening ceremony - DDIC Research Building @ INVITE

Agenda – June 19, 2023



10:00 —	Opening ceremony - DDiC Research Building @ INVITE hybrid Festive guests: Dr. Christian Feiler, Ministry of Economic Affairs, Industry, Climate & Energy of the State of North Rhine-Westphalia, Germany Members of Shareholder Assembly + Supervisory Board of INVITE			
11:00 —	Open day @ INVITE INVITE onsite <ul style="list-style-type: none"> • DDiC Research Building → visit of new laboratories → demonstration of lab automation concept & use case mobile robotics in lab environment → poster session - all INVITE research area • INVITE Research Building → Digital Showcase Center: demonstration of NOA, APL + MTP-technology 			
12:00 —				
13:00 —				
14:00 —	DDIC (members only) Technical Committee Meeting Guest: Thomas de Beer, Univ Ghent	Formulation Technology Poster session - DDIC consortium - PhD + master thesis projects Demonstration continuous manufacturing process line (Syntegon)	Smart Automation Poster session Demonstration: lab automation & mobile robotics Master class: „Automation strategy & Robotics assessment in the Life Science Industry“	Sustainability & Innovation Poster session - Sustainability - Open Innovation Digital Showcase Center Demonstration of NOA, APL + MTP-technology
15:00 —				
16:00 —				
17:00 —				

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11:00 —

Formulation Technology

Poster session

- DDIC consortium
- PhD + master thesis projects

Demonstration

continuous manufacturing process line (Syntegon)

17:00 —

Smart Automation

Poster session

Demonstration: lab automation & mobile robotics

Product Presentation
WATERS - Lab

12:00

Product Presentation
URG - Lab

13:00

Master class:
„Automation Strategy & Robotics assessment in the Life Science Industry“ - Office

14:15

Sustainability & Innovation

Poster session

- Sustainability
- Open Innovation

Sustainability: Biotechnological Syntheses as Catalysts for Environmental Sustainability – Prof. Dr. K. Rosenthal

13:30

Digital Showcase Center:
Demonstration of NOA, APL + MTP-technology

14:00

Digital Showcase Center:
Demonstration of NOA, APL + MTP-technology

15:00



Catering

invite.

Info - Box

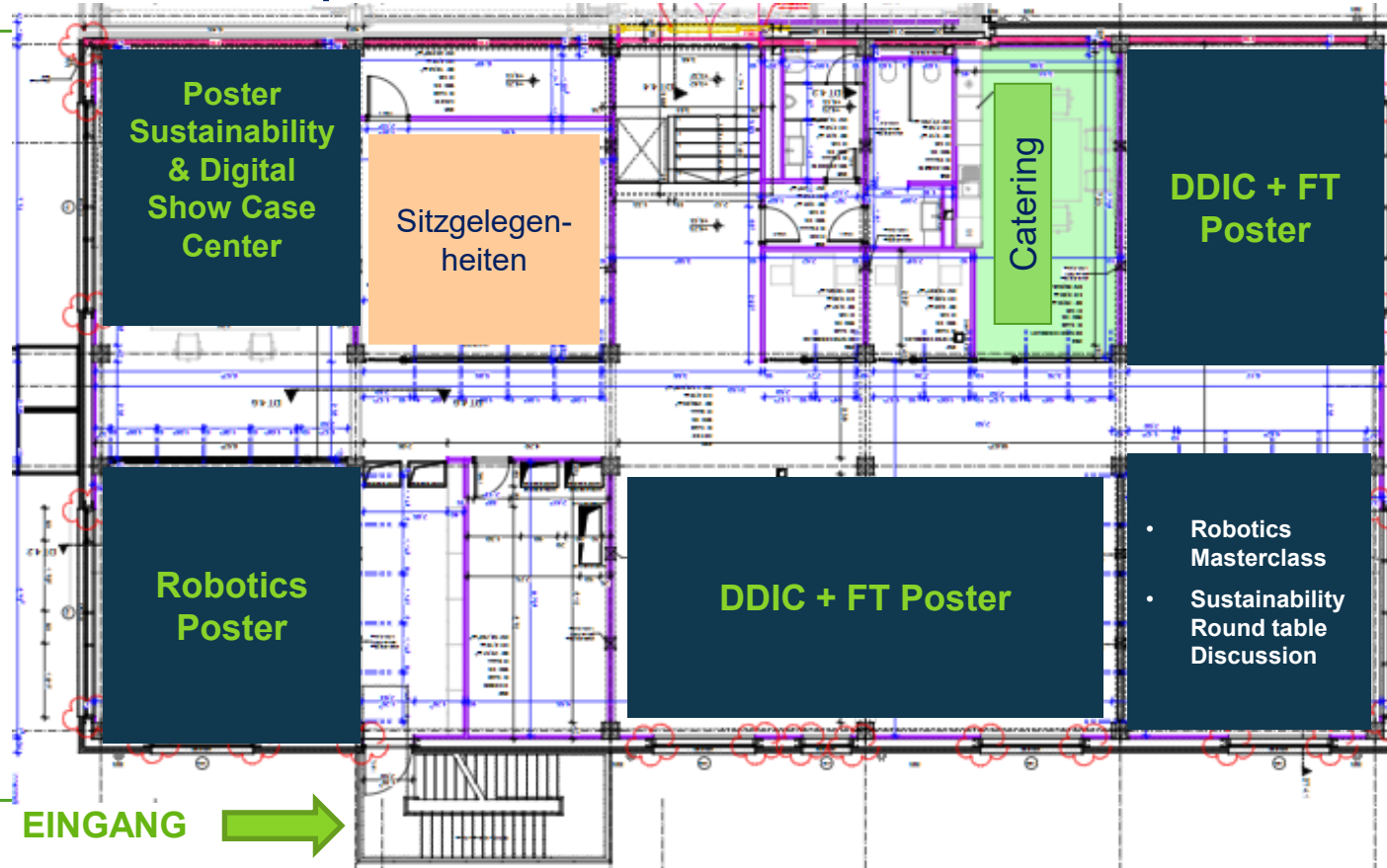


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Opening Ceremony

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Overview – the poster sessions

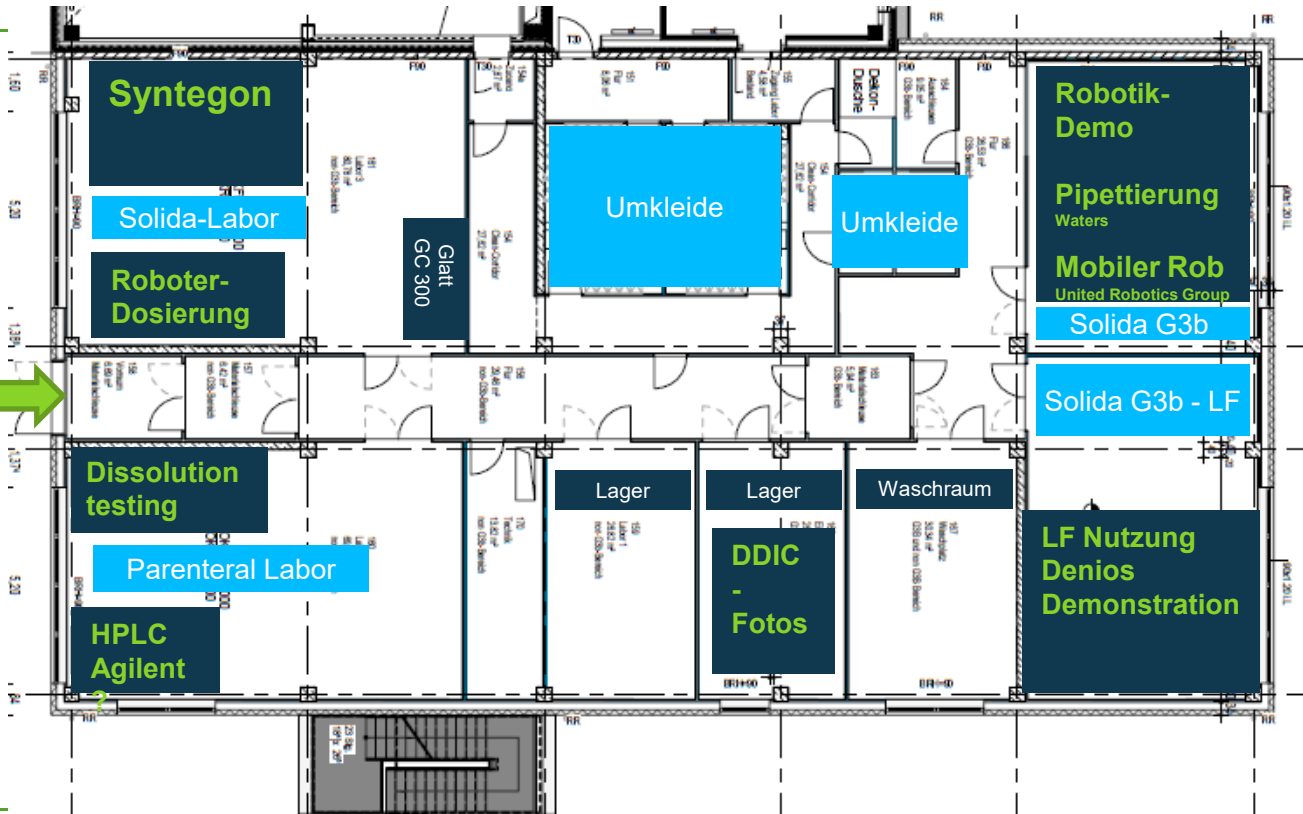


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Overview – the labs



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Poster session (part 1 of 3) – June 19, 2023



Research Focus Area	Poster title
Sustainability & Innovation	NOA PAT Vitality Data – Empower online conditioning monitoring for Process Analyzer Technologies
Sustainability & Innovation	DigSC Modular Type Packages - Plug and Play Automation
Sustainability & Innovation	DigSC Ethernet APL
Sustainability & Innovation	Sustainability assessment of equivalent biotechnological and chemical processes
Sustainability & Innovation	Carbon Neutral Thermal Energy Supply of the Future in Multipurpose Chemical Production Plants
Sustainability & Innovation	Landscaping: Degradation of per- and polyfluoroalkyl substances (PFAS)
Sustainability & Innovation	Landscaping: Energy Recovery from Process Waste Water
Robotics & Automation	IntelliLab - an Innovative, Fully Integrated Lab Automation System
Robotics & Automation	TraceBot - Traceable Robotic Handling of Sterile Medical Products (EU Public Funding Project H2020 # 101017089)
Robotics & Automation	AIRA 2022 - Advanced Industrial Robotics Applications: Flexible Mobile Robots for Chemical Plants
Robotics & Automation	Dose-any-Substance: the Flexible Human-like Robotic Dosing System
Robotics & Automation	Teleoperation - Intuitive Real-Time VR-based Telemanipulation & Safe Human Robot Collaboration
Robotics & Automation	Cleaning of Safety Cabinets (Reinigung von Sicherheitswerkbänken)

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Poster session (part 2 of 3) – June 19, 2023



Research Focus Area	Poster title
Formulation Technology	The nanoparticle albumin bound™ Technology: From Abraxane® to Screening Platform
Formulation Technology	Development of a dissolution test method for nanoscale drug suspensions
Formulation Technology	Improved Free Volume Theory for the Self-Diffusion of Active Ingredients in Amorphous
Formulation Technology	Quantitative Leakage Detection of Pharmaceutical Blister Packages
Formulation Technology	Melt Foaming for the Reduction of Agglomeration in Solid Crystalline Suspensions
Formulation Technology	Dissolution Behavior of Regorafenib Amorphous Solid Dispersion Under Biorelevant Conditions
Formulation Technology	Prediction of Droplet Size Distribution from Twin Fluid Nozzles
Formulation Technology	Development of a Novel Leak Detection Method for Single-Use Material in the Biopharmaceutical Industry
Formulation Technology	Continuous Viral Filtration for mAb Production Processes

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Poster session (part 3 of 3) – June 19, 2023



Research Focus Area	Poster title
Formulation Technology / DDiC	Thermodynamically Based Choice of Amino Acid Mixtures as Excipients for Highly Concentrated Protein Formulation (HCPF)-Design
Formulation Technology / DDiC	Disturbance prediction in continuous manufacturing of solid oral dosage forms
Formulation Technology / DDiC	Dissolution Studies with 3D-printed Intravesical Inserts in Novel Biopharmaceutical Bladder Model
Formulation Technology / DDiC	Water- assisted drying of ASDs
Formulation Technology / DDiC	Thermodynamic and Kinetic Stability of Amorphous Pharmaceutical Formulations
Formulation Technology / DDiC	Optimization Procedure for Hot Melt Extrusion as a Continuous Manufacturing Technique for Amorphous Solid Dispersions
Formulation Technology / DDiC	Advancing towards a controlled continuous dry granulation line
Formulation Technology / DDiC	Modeling of Melt Viscosity of Drug – Polymer Mixtures
Formulation Technology / DDiC	Determining of Characteristic Screw Parameters for the 1D Modeling of Pharmaceutical Twin-Screw
Formulation Technology / DDiC	Twin-screw granulation: An attempt for a quantitative description of screw configuration impact on GSD
Formulation Technology / DDiC	Hot-melt Extrusion Process Analysis and Optimization of Filament Production for pharmaceutical 3D-Printing
Formulation Technology / DDiC	Small Matrices with Extended-Drug Release Properties
Formulation Technology / DDiC	Investigations on the Dosing Precision Using Semi Solid Extrusion
Formulation Technology / DDiC	Amino Acid-derivatized Amphiphiles for Protein/Antibody Stabilization and Release