GlycoUniverse GmbH & Co. KGaA
Am Mühlenberg 11
14476 Potsdam
GERMANY

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Glyconeer Workshop 2025

02nd – 04th July 2025 // Potsdam, Germany

Agenda

Day 01 – Wednesday 02nd of July:

- Keynote Presentations (GO:IN 1, Seminar Room)
- Hands-On: Running the Glyconeer (GlycoUniverse's Labs)
- Hands-On: Purification & Analysis Techniques (Prof. Seeberger's Labs)
- Networking Dinner (Tomasa Potsdam)

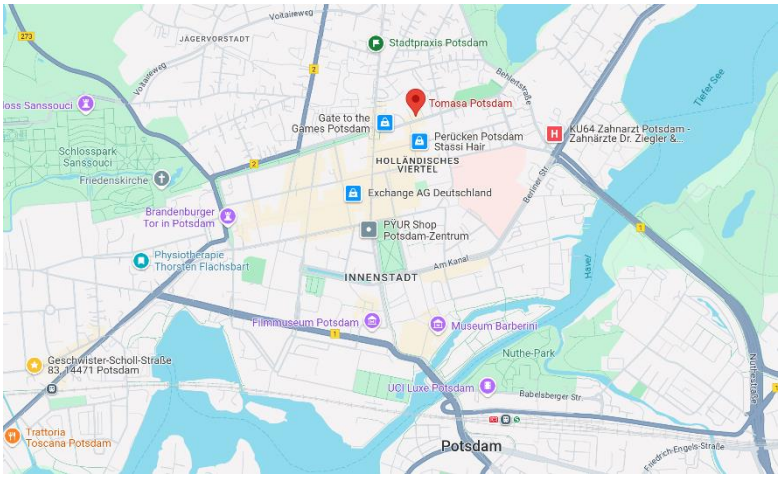
Time & Location	Session	Speaker
08:45 – 09:15	**Check-in**	
09:15 – 10:30	**Welcome & Introduction**	
GO:IN 1	▪ Workshop schedule	Dr. Kim Le Mai Hoang (GU-Germany)
	▪ GlycoUniverse & Glyconeer®: What's new!	
	▪ Automated synthesis of Acinetobacter *baumannii* polysaccharide fragments	Martina Quaglia (GU-Germany)
	▪ Manual Lewis-X synthesis vs Glyconeer®	Dr. Manishkumar Chaube (GU-Germany)
10:30 – 11:00 GO:IN 1	*Coffee Break*	
11:00 – 12:00	**AGA Insight: Engineering's Perspective**	
GO:IN 1	▪ Recent developments and challenges in automated glycan assembly	Dr. José Danglad Flores (MPIKG-Germany)
	▪ Bulk mixing in milligram-scale solid phase synthesis reactors	Sebastian Pinzon Lopez (MPIKG-Germany)
12:00 – 13:00 GO:IN 1	*Lunch Break*	
13:00 – 14:00	**AGA Insight: Case Studies**	
GO:IN 1	▪ Automated Glycan Assembly of β-1,3-Xylan Oligosaccharides	Dr. Nitish Verma (BOKU-Austria)
	▪ The Sugar machine: How the Glyconeer and Enzymes are Redefining Synthesis	Dr. Maria J.M. Garcia (CICBioGUNE-Spain)
14:00 – 14:30 GO:IN 1	Group Photos // Coffee Break	

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14:30 – 17:00	**Hands-On Workshop**	
GlycoUniverse's Labs	**Running the Glyconeer** ▪ Operating conditions ▪ Turn on Glyconeer ▪ Reagent preparations ▪ Resin, solvent, reagents & BBs loading ▪ Set up a typical synthesis ▪ On-device photocleavage ▪ Push back & turn off	Martina Quaglia (GU-Germany)
Seeberger's Labs	**Purification & Analysis Techniques** ▪ Normal-phase HPLC ▪ MALDI spotting ▪ Reverse-phase HPLC ▪ Lyophilization ▪ Two-steps deprotection ▪ Automation lab, dry-solvent system ▪ UV-Flow photocleavage ▪ NMR facility	Dr. Manishkumar Chaube (GU-Germany)
19:00 – 22:00 **Tomasa Potsdam** Kurfürstenstraße 52, 14469 Potsdam	*Networking Dinner* *(+49) 0331-88763030* *http://www.tomasa.de/tomasa-potsdam*	





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Day 02 – Thursday 03rd of July:

- Keynote Presentations (GO:IN 1, Seminar Room)
- Hands-On: Running the Glyconeer (GlycoUniverse's Labs)
- Hands-On: Purification & Analysis Techniques (Prof. Seeberger's Labs)
- Networking Dinner (Zum Fliegenden Holländer)

Time & Location	Session	Speaker
09:00 – 10:30 GO:IN 1	**AGA Insight: Case Studies**	
	▪ p-Nitrobenzyloxycarbonyl Protective Group as Key to AGA of Neutral Human Milk Oligosaccharides	Mei-Huei Lin (MPIKG-Germany)
	▪ Synthesis of Sialylated Human Milk Oligosaccharides by AGA	Yan-Ting Kuo (GU-Germany)
	▪ Bidirectional AGA for Saponins and Cyclic Oligosaccharides	Dr. Georg Niggemeyer (MPIKG-Germany)
10:30 – 11:00 GO:IN 1	*Coffee Break*	
11:00 – 12:00 GO:IN 1	**AGA Insight: Case Studies**	
	▪ Automated Synthesis of Fluorinated O-Antigen Frameshifts	Dr. James Suri (Uni. Münster-Germany)
	▪ Toward Energy- and Atom-Efficient Solid Phase Oligosaccharide Synthesis: Acceptor-Adaptive Optimization and More	Yonatan Sukhran (HUJI-Israel)
12:00 – 13:00 GO:IN 1	*Lunch Break*	
13:00 – 14:15 GO:IN 1	**AGA Insight: Case Studies**	
	▪ Functional Group Modifications and Deprotection of Oligosaccharides	Dr. Manishkumar Chaube (GU-Germany)
	▪ Automated Glycan Synthesis toward Glycan-based Catalyst	Dr. Kai-Meng Liu (MPIKG-Germany)
	▪ Automated glycan assembly of carbohydrate foldamers	Nishu Yadav (MPIKG-Germany)
14:15 – 14:30 GO:IN 1	Coffee Break	

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14:30 – 17:00 GlycoUniverse's Labs	**Hands-On Workshop** **Running the Glyconeer** ▪ Operating conditions ▪ Turn on Glyconeer ▪ Reagent preparations ▪ Resin, solvent, reagents & BBs loading ▪ Set up a typical synthesis ▪ On-device photocleavage ▪ Push back & turn off	Martina Quaglia (GU-Germany)
Seeberger's Labs	**Purification & Analysis Techniques** ▪ Normal-phase HPLC ▪ MALDI spotting ▪ Reverse-phase HPLC ▪ Lyophilization ▪ Two-steps deprotection ▪ Automation lab, dry-solvent system ▪ UV-Flow photocleavage ▪ NMR facility	Dr. Manishkumar Chaube (GU-Germany)
19:30 – 22:30 **Zum Fliegenden Holländer** Benkertstraße 5, 14467 Potsdam	*Networking Dinner* *(+49) 0331-6012-7750* *https://www.zumfliegendenhollaender.com/*	





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Day 03 – Friday 04th of July:

- Case Studies & Updates Roadmap
- Roundtable Feedback, Q&A

Time & Location	Session	Speaker
09:00 – 10:00 GO:IN 1	**AGA Insight: Case Studies & Updates** ▪ Automated synthesis of asymmetrical biantennary N-glycan fragment: Strategy & Optimization ▪ Updates Roadmap	Dr. Kim Le Mai Hoang (GU-Germany)
10:00 – 10:30 GO:IN 1	*Coffee Break*	
10:30 – 12:00 GO:IN 1	**Roundtable Feedback, Q&A** ▪ Shared insights & discussion ▪ Closing remarks	
12:00 – 12:30 GO:IN 1	*Lunch Bag & Departure*	