

Warsaw Doctoral School in Natural and Biomedical Sciences and the Institute of Organic Chemistry PAS cordially invites you to **Advanced Lecture Series**:

## Targeted Delivery of Lipid-based Nanoparticles

given by

**Prof. Christoph Rademacher**

(Department of Pharmaceutical Sciences, University of Vienna, Austria)

**Prof. Christoph Rademacher** earned his BSc in Molecular Biotechnology and MSc in Molecular Life Science at the University of Lübeck. In 2009, Dr. Rademacher received his doctorate from the same University, where he performed studies under the supervision of Prof. Dr. Thomas Peters in the Department of Chemistry working on virus/carbohydrate interactions using NMR spectroscopy. He then underwent postdoctoral training with Prof. Dr. James C. Paulson at The Scripps Research Institute (USA) in the Department of Chemical Physiology, where he entered the field of glycoimmunology. In December 2011, Dr. Rademacher was appointed at the Max Planck Institute of Colloids and Interfaces in the Department of Biomolecular Systems, where he became Emmy-Noether Research Group Leader in June 2012. In 2017, Dr. Rademacher received an ERC Starting Grant. In 2020 he was appointed full professor at the University of Vienna and the Max F. Perutz Laboratories and became Novartis NIBR Global Scholarship Fellow in 2021. His research is focused on the development and application of novel molecular probes to understand the role of carbohydrates in immune cell regulation with a strong emphasis on molecular drug targeting.

**Agenda:** Carbohydrates are essential mediators of many processes in health and disease, since they are integral to the cellular envelope for microorganisms and participate in biofilm formation. Their functions are related to multivalent recognition processes that become a viable option for the development of novel therapeutics. In this respect, small molecules mimicking this recognition process have become more and more available either as tools for fostering our basic understanding of glycobiology, as therapeutics, or as molecular drug targeting. The lectures will focus on the recent development of small molecule ligands for targeted delivery purposes.

**LECTURE SERIES:** *Targeted Delivery of Lipid-based Nanoparticles*

**October 19, 2023 (Thursday) – conference room IOC PAS, Warsaw, Kasprzaka 44/52**

14:00 – 15:30 Lecture 1

16:00 – 17:30 Lecture 2

**OPEN LECTURE:** *Glycomimetic-based delivery of novel transdermal vaccines*

**October 20, 2023 (Friday) – 10 a.m. – aula IOC/ICP PAS, Warsaw, Kasprzaka 44/52**

Registration at [aleksandra.butkiewicz@icho.edu.pl](mailto:aleksandra.butkiewicz@icho.edu.pl)

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