PETER H. SEEBERGER

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Title of Lecture: "Preventing and Fighting Infectious Disease: Carbohydrate Vaccines and Continuous Production of Medicines"

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Education:

1995	Ph.D., Biochemistry, University of Colorado at Boulder
1989	B.S., Chemistry, University of Erlangen-Nürnberg

Research and Professional Experience

2011 - 2012	Managing Director, Max-Planck Institute for Colloids and Interfaces
2011 - present	Honorary Professor of Chemistry, Potsdam University
2009 - present	Director, Department for Biomolecular Systems, Max-Planck Institute for Colloids and Interfaces
2009 - present	Professor of Chemistry, Free University of Berlin
2003 - 2014	Affiliate Professor, The Burnham Institute
2008	Chair, Laboratory for Organic Chemistry, Swiss Federal Institute of Technology (ETH) Zurich
2003 - 2009	Professor of Chemistry, Swiss Federal Institute of Technology (ETH) Zurich
2002 - 2003	Firmenich Associate Professor of Chemistry, Massachusetts Institute of Technology
1998 - 2002	Assistant Professor of Chemistry, Massachusetts Institute of Technology
1995 - 1997	Research Fellow, Sloan-Kettering Institute for Cancer Research

Awards and Honors

Ernst Hellmut Vits-Prize, Univ. Münster (2018); Wissenschaftspreis des Stifterverbandes (2017); Humanity in Science Award (2015); Member, Berlin-Brandenburg Academy of Sciences (2013); C. S. Hamilton Award for Organic Chemistry Univ. of Nebraska (2013); "Honorary Visiting Professor", Jiangnan University (2012); Whistler Award, Int. Carb. Organization (2012); Hans Herloff Inhoffen-Medal, TU Braunschweig (2011); Tetrahedron Young Investigator Award Bioorg. Med. Chemistry (2010); Claude S. Hudson Award in Carbohydrate Chemistry, ACS (2009); Honorary Lifetime Member, Israel Chemical Society (2009); Karl-Heinz Beckurts Prize (2008); ERC Advanced Grant (2008); "The 100 Most Important Swiss 2008" Schweizer Illustrierte (2008); UCB-Ehrlich Award for Excellence in Medicinal Chemistry (2008); Yoshimasa Hirata Gold Medal, Nagoya University (2007); "The 100 Most Important Swiss 2007" Schweizer Illustrierte (2007); Körber European Science Award (2007); Havinga Medal, Leiden University (2007); Astra Zeneca Organic Chemistry Award (2006); President of 2006, Swiss Academy of Natural Sciences (2006); European Society for Combinatorial Sciences Award (2005); Carbohydrate Research Award for Creativity in Carboh. Chem. (2005): Otto-Klung Weberbank Prize for Chemistry (2004); Horace B. Isbell Award, ACS Carbohydrate Division (2003); Arthur C. Cope Young Scholar Award, ACS (2003); Merck Academic Development Program Award (2002).

Research Interests

Peter Seeberger has developed automated glycan assembly as the basis for molecular glycobiology. From these fundamental advances, applications in vaccine development, diagnostics, therapeutics and material science have arisen. Research in continuous flow chemistry have evolved into autonomous chemistry to optimize reactions and produce important drugs on large scale.