

List of Heinrich Wieland Prize Laureates since 1964

HEINRICH WIELAND PRIZE



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Year	Name of Laureate	Affiliation at time of award	Achievement
2022	Prof. Xiaowei Zhuang, PhD	Harvard University, Cambridge, USA	Developing ground-breaking single-molecule and super-resolution imaging methods and applying these to make seminal discoveries in cell biology and neurobiology
2021	Prof. Thomas Boehm	Max Planck Institute of Immunobiology and Epigenetics, Freiburg, Germany	Ground-breaking contributions to the understanding of the development and evolution of the immune system in vertebrates
2020	Prof. Craig M. Crews	Yale University, New Haven, USA	Pioneering targeted protein degradation as a new therapeutic principle in pharmacology
2019	Prof. Jens Brüning	Max Planck Institute for Metabolism Research, Cologne, Germany	Pioneering research on how the brain regulates energy metabolism
2018	Prof. Pascale Cossart	Institut Pasteur, Paris, F	Fundamental contributions to the field of Molecular Infection Biology
2017	Prof. Alexander Varshavsky	California Institute of Technology, Pasadena, USA	Discovering the biology of the ubiquitin system
2016	Prof. Peter Schultz	The Scripps Institute, La Jolla, USA	Fundamental contributions to the biologically inspired synthesis of new molecules and in particular for the expansion of the genetic code
2015	Prof. Gero Miesenböck	University of Oxford, Oxford, UK	Breakthrough concept of optogenetics and its proof of principle
2014	Prof. Reinhard Jahn	Max Planck Institute for Biophysical Chemistry, Göttingen, Germany	Paradigmatic studies on membrane fusion, synaptic vesicles and neurotransmitter release

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2013	Prof. Tony Kouzarides	The Gurdon Institute, Cambridge, UK	Groundbreaking research on chromatin modifications and their role in cancer
2012	Prof. Carolyn Bertozzi	University of California, Department of Chemistry, USA	Pioneering achievements in chemical biology, in particular the innovative use of bioorthogonal chemistry
2011	Prof. Franz-Ulrich Hartl	Max Planck Institute of Biochemistry, Martinsried, Germany	Chaperone-assisted protein folding and its impact on neurodegenerative diseases
2010	Prof. Nenad Ban	Institute of Molecular Biology & Biophysics, ETH Zurich, Zurich, Switzerland	Definition of molecular architecture of fatty acid synthase multi-enzymes
2009	Prof. Steven Ley	University of Cambridge, Department of Chemistry, Cambridge, UK	Outstanding achievements in the synthesis of key natural products
2008	Prof. Markus Stoffel	Institute of Molecular Systems Biology, ETH Zurich, Zurich, Switzerland	Milestone discoveries on the development of diabetes
2007	Prof. Joachim Herz	Department of Molecular Genetics, University of Texas, Dallas, USA	Uncovering novel functions for lipoprotein receptors
2006	Prof. Alois Fürstner	Max Planck Institute for Coal Research, Muelheim/Ruhr, Germany	Identification of the molecular structure of many relevant glycolipids using metal catalysed methodology
2005	Prof. Helen H. Hobbs	University of Texas, Southwestern Medical School, Dallas, USA	Genetic Factors Contributing to Cholesterol Accumulation and Atherosclerosis
2004	Prof. Roger Nicoll	University of California San Francisco, San Francisco, USA	Role of endogenous cannabinoids as neurotransmitters
2004	Prof. Raphael Mechoulam	Hebrew University Jerusalem, Department of Medicinal Chemistry and Natural Products, Jerusalem, Israel	Chemistry and Biochemistry of Cannabis and Endocannabinoids
2003	Prof. David J. Mangelsdorf	University of Texas, Howard Hughes Medical Institute, Southwestern Medical School, Dallas, USA	Nuclear receptors as lipid sensors
2002	Prof. Stephen O'Rahilly	Addenbrook's Hospital, Institute for Medicine and Clinical Biochemistry, Cambridge, UK	Insights into molecular mechanisms in human obesity and insulin resistance
2001	Prof. Felix Wieland	Center for Biochemistry, Ruprecht-Karls-University, Heidelberg, Germany	The mechanism of the formation of transport vehicles
2000	Prof. Lewis Clayton Cantley	Harvard Institutes of Medicine, Boston, USA	Signalling ligands and the discovery of the phosphoinositide-3-kinase pathway

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1999	Prof. Ernst Heinz	Institute for General Botany University, University of Hamburg, Hamburg, Germany	Genetical modification of the biosynthesis of plant membrane and reserve lipids - possible importance for human nutrition
1998	Prof. Thomas E. Willnow	Max-Delbrueck-Center for Molecular Medicine, Working Group Lipids and Gentherapy, Berlin, Germany	Characterisation of LDL receptor gene family in transgenic animal models
1997	Prof. Bruce M. Spiegelman	Dana-Farber Cancer Institute, Division of Cellular and Molecular Biology, Boston, USA	PPARy and the Transcriptional Basis of Adipogenesis
1996	Prof. Jeffrey M. Friedman	Howard Hughes Medical Institute, Research Laboratories, The Rockefeller University, New York, USA	Leptin, Lipatosis, and the Control of Body Weight
1995	Prof. Jean E. Schaffer	Whitehead Institute for Biological Research, Massachusetts Institute of Technology, Cambridge, MA, USA	A Novel Adipocyte Long Chain Fatty Acid Transport Protein
1995	Prof. Dennis E. Vance	Lipid and Lipoprotein Research, Faculty of Medicine, University of Alberta, Edmonton, Canada	Phosphatidylethanolamine N-Methyltransferase- Unexpected Findings from Curiosity Driven Research
1994	Prof. Joachim Seelig	Department for Biophysical Chemistry, Biocenter, University of Basel, Basel, Switzerland	Lipids in biological membranes - more than a simple piece of fat!
1993	Prof. Walter Neupert	Institute for Physiological Chemistry, Physical Biochemistry and Cell Biology, Ludwig Maximilians University, Munich, Germany	Protein transport across the membranes of mitochondria
1992	Prof. Lev D. Bergelson	Shemyakin Institute for Bioorganic Chemistry Russian Academie of Sciences, Moscow, Russia	Glycolipids and Antitumor Immunity
1991	Prof. Jan L. Breslow	Laboratory of Biochemical Genetics, The Rockefeller University, New York, USA	Apolipoprotein Genes and Atherosclerosis
1991	Prof. Wolfgang J. Schneider	Institute for Molecular Genetics, University Vienna, Vienna, Austria	Lipoprotein Receptors in Oocyte Growth
1990	Prof. James E. Rothman	Department of Molecular Biology, Princeton University, New Jersey, USA	Enzymology of Intracellular Membrane Fusion
1990	Prof. Karel W.A. Wirtz	Centrum voor Biomembranen en Lipid Enzymologie, Rijksuniversiteit Utrecht, Netherlands	Phospholipid Transfer Proteins: From Lipid Monolayers to Cells
1989	Prof. Ching-Hsien Huang	Department of Biochemistry, University of Virginia, Charlottesville, USA	Asymmetric Phospholipids and Interdigitated Bilayer Systems
1988	Prof. Lawrence C.B. Chan	Department of Cell Biology and Medicine, Houston, USA	Apolipoprotein Multigene Family: Structure, Expression, Evolution, and Molecular Genetics

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1987	Prof. Akira Endo	Department of Agricultural and Biological Chemistry Tokyo Noko University, Tokio, Japan	Chemical, Biochemical and Pharmacological Studies of Cholesterol-Lowering Drugs Inhibiting HMG-CoA Reductase
1987	Prof. Dietrich Keppler	Institute for Nuclear Medicine, Department Tumorbiochemistry, German Cancer Research Center (DKFZ), Heidelberg, Germany	Metabolism and analysis of leukotrienes
1986	Prof. Eugene P. Kennedy	Harvard Medical School, Department of Biological Chemistry, Boston, USA	Metabolism and Function of Membrane Lipids
1985	Prof. Guy Ourisson	Centre de Neurochimie, Université Louis Pasteur, Strasbourg, France	From petroleum to the evolution of biomembranes: the Hopanoides, a new class of bacterial lipids
1984	Priv.-Doz. Olaf Adam	Medical Polyclinic, University Hospital, Munich, Germany	Nutrition physiological investigations with specific diets: The metabolism of poly unsaturated fatty acids and the prostaglandin
1984	Prof. Gerhart Kurz	Institute for Organic Chemistry and Biochemistry, University Freiburg, Freiburg, Germany	Investigations on the transcellular transport of cholic acids using photo affinity labeling
1983	Prof. John. M. Dietschy	University of Texas, Department of Internal Medicine, Division of Gastroenterology, Dallas, USA	The Regulation of Cholesterol Balance Across the Differentiated Tissues of the Whole Animal
1982	Prof. Hansjörg Eibl	Max Planck Institute, Karl-Friedrich-Bonhoeffer- Institute, Goettingen, Germany	Phospholipids as functional components of biological membranes
1982	Prof. Robert William Mahley	The Gladstone Foundation, San Francisco General Hospital, Medical Center, San Francisco, USA	Apolipoprotein E and Cholesterol Metabolism
1981	Prof. Bengt Samuelsson	Karolinska Institute, Department of Physiological Chemistry, Stockholm, Sweden	Leukotrienes: Novel Mediators in Allergy and Inflammation
1980	Prof. H. Bryan Brewer	Molecular Disease Branch Department of Health, Education and Welfare, Public Health Service, National Institutes of Health, Bethesda, USA	Molecular Structure and Metabolism of Human Apolipoproteins and Lipoproteins
1980	Prof. Barry Lewis	Department of Chemical Pathology Metabolic Disorders, St. Thomas's Hospital, Medical School, London, UK	Genes and Nutrition in the Regulation of Plasma Lipoprotein Metabolism
1979	Prof. Konrad Sandhoff	Institute for Organic Chemistry and Biochemistry, Rheinische Friedrich-Wilhelm-University, Bonn, Germany	Lipid-protein-interactions: mechanisms of enzymatic glycolipid degradation and its genetic caused deregulations
1978	Prof. Olga Stein Prof. Yechezkiel Stein	Lipid Research Laboratory, Hadassah University Hospital, Jerusalem	Interaction of Lipoproteins with Cellular Components of the Arterial Wall

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1977	Priv.-Doz. Gerd Assmann	Institute for Clinical Chemistry, University Hospital, Institute for Biochemistry and Technology, Cologne, Germany	On the pathophysiology of the Tangier-Disease
1977	Prof. Helmut K. Mangold	H.P.-Kaufmann-Institute, Federal Institute for Lipid Research, Muenster, Germany	Synthesis and biosynthesis of alkoxylipids
1976	Prof. Dietrich Seidel	University Hospital, Institute for Microbiology and Biology, Heidelberg, Germany	Origine and structural properties of Lipoprotein X, a abnormal lipoprotein in cholestasis
1976	Prof. Eckhart Schweizer	Institute for Biochemistry, University Erlangen-Nürnberg, Erlangen, Germany	Biosynthesis and structure of the fatty acid synthetase complex in yeast
1975	Priv.-Doz. Ernst Ferber	Max Planck Institute of Immunology, Freiburg, Germany	Phospholipid metabolism in stimulated Lymphocytes: The activation of membrane bound Acyl-Co A: lysolecithin, acyltransferases
1975	Priv.-Doz. Klaus Resch	Institute for Immunology, University Heidelberg, Heidelberg, Germany	Phospholipid metabolism in stimulated lymphocytes: The importance of the plasma membrane for the cell activation
1974	Prof. Michael S. Brown Prof. Joseph L. Goldstein	University of Texas, Health Science Center Dallas, Southwestern Medical School, Department of Internal Medicine, Dallas, USA	Lipoprotein Receptors and the Genetic Control of Cholesterol Metabolism in Cultured Human Cells
1973	Prof. Shosaku Numa	Department of Medical Chemistry, Kyoto University, Kyoto, Japan	Regulation of lipid formation in the animal. Relationships to diabetes
1972	Priv.-Doz. Heiner Greten	Medical University Hospital, Heidelberg, Germany	Metabolism and function of human plasma lipoproteins
1972	Prof. Kurt Oette	Medical University Hospital, Cologne, Germany	Experimental investigations on lipid metabolism using human liver biopsies
1971	Prof. Laurens L.M. van Deenen	Biochemical Laboratory Rijksuniversiteit, Utrecht, Netherlands	Chemistry of Phospholipids in Relation to Biological Membranes
1970	Priv.-Doz. Christian Bode Priv.-Doz. Harald Goebell	Medical University Hospital, Marburg, Germany	Pathogenesis of acute fatty liver induced by alcohol and other liver diseases caused by alcohol
1969	Prof. Werner Seubert	Institute for Physiology and Chemistry, University Goettingen, Goettingen, Germany	On the mechanism of mitochondrial fatty acid synthesis and pathological ketone body formation
1968	Prof. David Adriaan van Dorp	Unilever Research Laboratories, Vlaardingen, Netherlands	On the biosynthesis and synthesis of prostaglandins

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1967	Priv.-Doz. Heinrich Wagener Dr. Bruno Frosch	Medical University Hospital, Heidelberg, Germany	Methods and results of the quantitative determination of conjugated cholic acids in serum during liver diseases
1966	No award		
1965	Priv.-Doz. Wilhelm Stoffel	Institute for Physiology and Chemistry, University, Cologne, Germany	Biosynthesis of unsaturated fatty acids and mechanism of oxidation of these acids
1964	Prof. Ernst Klenk	Institute for Physiology and Chemistry, University of Cologne, Cologne, Germany	First award presented also honouring his lifetime achievements