



# LINDAU NOBEL LAUREATE MEETINGS

Kuratorium für die Tagungen  
der Nobelpreisträger in Lindau

Council for the  
Lindau Nobel Laureate Meetings

## Laureates attending the 68<sup>th</sup> Lindau Nobel Laureate Meeting

Name	Discipline	Year of Award	Reasoning for Award	Nationality	Date of Birth	Attendance in Lindau
Peter Agre	Chemistry	2003	For discoveries concerning channels in cell membranes	US	30.01.1949	2017; 2015; 2014; 2013; 2011; 2010; 2009; 2006; 2005
Bruce A. Beutler	Physiology or Medicine	2011	For the discoveries concerning the activation of innate immunity	US	29.12.1957	2015; 2014
J. Michael Bishop	Physiology or Medicine	1989	For the discovery of the cellular origin of retroviral oncogenes	US	22.02.1936	2015; 2014
Elizabeth H. Blackburn	Physiology or Medicine	2009	For the discovery of how chromosomes are protected by telomeres and the enzyme telomerase	US	26.11.1948	2015; 2014; 2011
Martin Chalfie	Chemistry	2008	For the discovery and development of the green fluorescent protein, GFP	US	15.01.1947	2017; 2015; 2014; 2013; 2010; 2009
Steven Chu	Physics	1997	For development of methods to cool and trap atoms with laser light	US	28.02.1948	2017; 2016; 2015; 2014; 2013; 2001; 2000
Aaron Ciechanover	Chemistry	2004	For the discovery of ubiquitin-mediated protein degradation	Israel	10.10.1947	2017; 2016; 2015; 2014; 2013; 2011; 2010; 2009; 2007; 2006; 2005
Peter C. Doherty	Physiology or Medicine	1996	For the discoveries concerning the specificity of the cell mediated immune defence	Australia	15.10.1940	2015; 1999
Joachim Frank	Chemistry	2017	For developing cryo-electron microscopy for the high-resolution structure determination of biomolecules in solution	Germany	12.09.1940	

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Prof. Dr. h. c. mult.  
Lennart Graf Bernadotte af Wisborg (†)

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Walter Gilbert	Chemistry	1980	For the contributions concerning the determination of base sequences in nucleic acids	US	21.03.1932	2015; 2014; 2013; 1999; 1983
Harald zur Hausen	Physiology or Medicine	2008	For his discovery of human papilloma viruses causing cervical cancer	Germany	11.03.1936	2017; 2015; 2014; 2013; 2012; 2011; 2010
Stefan W. Hell	Chemistry	2014	For the development of super-resolved fluorescence microscopy	Germany	23.12.1962	2017; 2016; 2015
Avram Hershko	Chemistry	2004	For the discovery of ubiquitin-mediated protein degradation	Israel	31.12.1937	2017; 2015; 2013; 2010; 2011; 2007
Jules A. Hoffmann	Physiology or Medicine	2011	For the discoveries concerning the activation of innate immunity	France	02.08.1941	2015; 2014
Robert Huber	Chemistry	1988	For the determination of the three-dimensional structure of a photosynthetic reaction centre	Germany	20.02.1937	2017; 2016; 2015; 2014; 2013; 2011; 2010; 2009; 2008; 2007; 2006; 2005; 2004; 2003; 2002; 2001; 2000; 1999; 1998; 1995; 1989
Tim Hunt	Physiology or Medicine	2001	For their discoveries of key regulators of the cell cycle	United Kingdom	19.02.1943	2014; 2010; 2007
Louis J. Ignarro	Physiology or Medicine	1998	For their discoveries concerning nitric oxide as a signalling molecule in the cardiovascular system	US	31.05.1941	
Robert J. Lefkowitz	Chemistry	2012	For studies of G-protein-coupled receptors	US	15.04.1943	
Michael Levitt	Chemistry	2013	For the development of multiscale models for complex chemical systems	US	09.05.1947	



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Tomas Lindahl	Chemistry	2015	For mechanistic studies of DNA repair	Sweden	28.01.1938	2017
Hartmut Michel	Chemistry	1988	For the determination of the three-dimensional structure of a photosynthetic reaction centre	Germany	18.07.1948	2017; 2016; 2015; 2014; 2013; 2012; 2011; 2010; 2009; 2008; 2007; 2006; 2003; 2002; 2001; 1998; 1996; 1995; 1993; 1989
Edvard I. Moser	Physiology or Medicine	2014	For the discoveries of cells that constitute a positioning system in the brain	Norway	27.04.1962	
Ferid Murad	Physiology or Medicine	1998	For the discoveries concerning nitric oxide as a signaling molecule in the cardiovascular system	US	14.09.1936	2017; 2015; 2014; 2011; 2010; 2007
Erwin Neher	Physiology or Medicine	1991	For the discoveries concerning the function of single ion channels in cells	Germany	20.03.1944	2017; 2015; 2014; 2013; 2012; 2011; 2010; 2009; 2007; 2006; 2003; 2000; 1999; 1996; 1993
Yoshinori Ohsumi	Physiology or Medicine	2016	For his discoveries of mechanisms for autophagy	Japan	09.02.1945	
Sir Richard J. Roberts	Physiology or Medicine	1993	For the discoveries of split genes	United Kingdom	06.09.1943	2015; 2007; 2005; 2000; 1996
Michael Rosbash	Physiology or Medicine	2017	For the discoveries of molecular mechanisms controlling the circadian rhythm	US	07.03.1944	
Bert Sakmann	Physiology or Medicine	1991	For the discoveries concerning the function of single ion channels in cells	Germany	12.06.1942	2016; 2015; 2014; 2011; 2007; 2003; 2000; 1999; 1996; 1993; 1992



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Randy W. Schekman	Physiology or Medicine	2013	For the discoveries of machinery regulating vesicle traffic, a major transport system in our cells	US	30.12.1948	2014
Dan Shechtman	Chemistry	2011	For the discovery of quasicrystals	Israel	24.01.1941	2017; 2016; 2015; 1013; 2012
Thomas A. Steitz	Chemistry	2009	For studies of the structure and function of the ribosome	US	23.08.1940	2017; 2014; 2011
Harold E. Varmus	Physiology or Medicine	1989	For the discovery of the cellular origin of retroviral oncogenes	US	18.12.1939	2015
Sir John E. Walker	Chemistry	1997	For the elucidation of the enzymatic mechanism underlying the synthesis of adenosine triphosphate (ATP)	United Kingdom	07.01.1941	2017; 2014; 2013; 2010; 2006
J. Robin Warren	Physiology or Medicine	2005	For the discovery of the bacterium <i>Helicobacter pylori</i> and its role in gastritis and peptic ulcer disease	Australia	11.06.1937	2015
Torsten Nils Wiesel	Physiology or Medicine	1981	For their discoveries concerning information processing in the visual system	Sweden	03.06.1924	2015; 2014; 2011; 2010; 2003; 1990
Kurt Wüthrich	Chemistry	2002	For his development of nuclear magnetic resonance spectroscopy for determining the three-dimensional structure of biological macromolecules in solution	Switzerland	04,10,1938	2017; 2016; 2015; 2014; 2013; 2012; 2010; 2009; 2006; 2005
Ada Yonath	Chemistry	2009	For studies of the structure and function of the ribosome	Israel	22.06.1939	2017; 2016; 2015; 2014; 2013; 2011; 2010
Michael W. Young	Physiology or Medicine	2017	For the discoveries of molecular mechanisms controlling the circadian rhythm	US	28.03.1949	
Rolf Martin Zinkernagel	Physiology or Medicine	1996	For the discoveries concerning the specificity of the cell mediated immune defence	Switzerland	06.01.1944	2014; 2007; 1999



**ACM Turing Award (Heidelberg Lecture):**

Name	Discipline	Year of Award	Reasoning for Award	Nationality	Date of Birth	Attendance in Lindau
Leslie Gabriel Valiant	ACM Turing Award	2010	For transformative contributions to the theory of computation, including the theory of probably approximately correct (PAC) learning, the complexity of enumeration and of algebraic computation, and the theory of parallel and distributed computing	United Kingdom	28.03.1949	