



LINDAU
NOBEL LAUREATE
MEETINGS

Online
Press Guide
71st Lindau Nobel
Laureate Meeting

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Media Information: Facts & Figures

32 Nobel Laureates participate in the 71st Lindau Nobel Laureate Meeting (Chemistry).

Among them:

- 23 Nobel Laureates in Chemistry
- 5 Nobel Laureates in Physiology/Medicine
- 4 Nobel Laureates in Physics
- Efim I. Zelmanov, awarded the Fields Medal in 1994, for the Heidelberg Lecture

About 600 young scientists from 90 countries participate in the meeting:

- nearly 500 on site in Lindau
- almost 100 participate online
- 54 % addressed by the pronoun "he", 45 % as "she", 1 % as "they"

Field of the studies:

- 92% Chemistry
- 4% Biology
- 3% Physics
- 1% Physiology/Medicine

The participants are distributed among 90 nationalities as follows:

Country	Number YS/ YE
Albania	1
Argentina	8
Armenia	1
Australia	7
Austria	5
Bangladesh	3
Belarus	2

Belgium	3
Benin	1
Bosnia and Herzegovina	1
Botswana	1
Brazil	12
Cameroon	5
Canada	9



LINDAU NOBEL LAUREATE MEETINGS

Chile	2
China	73
Colombia	8
Costa Rica	1
Croatia	3
Czech Republic	7
Egypt	3
Ethiopia	1
Finland	2
France	5
Germany	129
Ghana	3
Greece	8
Guatemala	1
Hong Kong	1
Hungary	1
Iceland	2
India	38
Indonesia	3
Iran	5
Ireland	3
Israel	11
Italy	12
Japan	10
Kazakhstan	3
Kenya	2
Kosovo	1
Latvia	1
Liberia	1
Liechtenstein	1
Lithuania	3
Luxembourg	1
Malaysia	8
Malta	1
Mauritius	2
Mexico	4
Mongolia	2
Morocco	1
Mozambique	1
Nepal	3
Netherlands	3
New Zealand	2
Nigeria	2

Norway	1
Oman	2
Pakistan	10
Palestine	3
Philippines	3
Poland	4
Portugal	5
Romania	1
Russian Federation	8
Rwanda	1
Saudi Arabia	1
Serbia	2
Singapore	8
Slovakia	2
Slovenia	3
South Africa	11
South Korea	4
Spain	14
Sweden	4
Switzerland	3
Taiwan (China)	2
Thailand	7
Togo	2
Trinidad and Tobago	1
Türkiye	8
Uganda	1
Ukraine	4
United Kingdom	11
United States of America	31
Uruguay	2
Venezuela	1
Viet Nam	2
Zimbabwe	2

Time (Zones)	Sunday, 26 June	Monday, 27 June	Tuesday, 28 June	Wednesday, 29 June	Thursday, 30 June	Friday, 1 July
07 B13 / T14 / C15 D10 ³⁰ / N01 / S22 ⁺				<i>Science Breakfast</i> Scientific Collaboration in Challenging Times Bruce, Schekman		
08 B14 / T15 / C16 D11 ³⁰ / N02 / S23 ⁺						
09 B15 / T16 / C17 D12 ³⁰ / N03 / S24 ⁺		<i>Lecture</i> Feringa	<i>Lecture</i> Stoddart	<i>Next Gen Science</i> presentations by young scientists	<i>Lecture</i> List	
10 B16 / T17 / C18 D13 ³⁰ / N04 / S01		<i>Lecture</i> Strickland	<i>Lecture</i> Kaelin		<i>Lecture</i> Hell	
		<i>Lecture</i> Schmidt	<i>Lecture</i> Moerner		<i>Lecture</i> Lehn	
11 B17 / T18 / C19 D14 ³⁰ / N05 / S02		<i>Agora Talk</i> • Frank • Ramakrishnan	<i>Agora Talk</i> • Ciechanover • Huber	<i>Agora Talk</i> • Warshel • Wüthrich	<i>Lecture</i> Novoselov	<i>Panel Discussion</i> The Diversity Challenge Günenc, Restrepo Schild, Strickland, Wittung-Stafshede
12 B18 / T19 / C20 D15 ³⁰ / N06 / S03	<i>Opening Ceremony</i>				<i>Lecture</i> Schekman	
		<i>Agora Talk</i> • Agre • Ignarro	<i>Agora Talk</i> • Neher • Schrock	<i>Agora Talk</i> • Shechtman • Michel	<i>Life Lecture</i> Yonath	
13 B19 / T20 / C21 D16 ³⁰ / N07 / S04						<i>Closing Ceremony</i>
14 B20 / T21 / C22 D17 ³⁰ / N08 / S05						
15 B21 / T22 / C23 D18 ³⁰ / N09 / S06	<i>Lecture</i> MacMillan					
	<i>Panel Discussion</i> Trust in Science, Trust in Chemistry Boetius, Gutenthaler, Miserendino, Ramakrishnan, Schmidt	<i>Open Exchange Online</i> Chalfie	<i>Panel Discussion</i> Artificial Intelligence in Chemistry Levitt, Nigel, Paiz, Warshel	<i>Panel Discussion</i> Catalysis & Green Chemistry Feng, Li, MacMillan, Schrock, Serrano		
16 B22 / T23 / C24 D19 ³⁰ / N10 / S07						
17 B23 / T24 / C01 ⁻¹ D20 ³⁰ / N11 / S08		<i>Next Gen Science</i> presentations by young scientists	<i>Open Exchange Online</i> Chu, Kobilka	<i>Open Exchange Online</i> Blackburn, Marcus	<i>Workshop</i> • Mentoring • Lindau Guidelines	
18 B24 / T01 ⁻¹ / C02 ⁻¹ D21 ³⁰ / N12 / S09						
19 B01 ⁻¹ / T02 ⁻¹ / C03 ⁻¹ D22 ³⁰ / N13 / S10	<i>Social Programme</i> Online Meet-Up	<i>Social Programme</i> International Get-Together hosted by the United Kingdom <i>[Programme Part]</i>	<i>Social Programme</i> Networking Workshop	<i>Heidelberg Lecture</i> Zelmanov	<i>Social Programme</i> Bavarian Evening with Brian Malow hosted by the Free State of Bavaria	
20 B02 ⁻¹ / T03 ⁻¹ / C04 ⁻¹ D23 ³⁰ / N14 / S11						
21 B03 ⁻¹ / T04 ⁻¹ / C05 ⁻¹ D00 ³⁰ / N15 / S12						

Sessions colored in orange are publicly available at public.lindau-nobel.org

Time Zones
The reference times on the left side are stated as Central European Summer Time (CEST).
Additional times zones are provided as smaller print.
B = Beijing (CST)
T = Tokyo (JST)
C = Canberra (AEST)
D = Delhi (IST)
N = New York (EDT/DST)
S = San Francisco (PDT/DST)
-1 = day before
+1 = day after
30 + plus 30 minutes

* Note: All programme sessions are subject to change.



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Kuratorium für die Tagungen
der Nobelpreisträger in Lindau
Council for the

Lindau Nobel Laureate Meetings

as of 23 June 2022

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32 Laureates to attend the 71st Lindau Nobel Laureate Meeting

Name	Discipline	Year of Award	Reasoning for Award	Attendance in Lindau
Peter Agre	Chemistry	2003	For discoveries concerning channels in cell membranes	2022; 2021; 2018; 2017; 2015; 2014; 2013; 2011; 2010; 2009; 2006; 2005
Elizabeth H. Blackburn online	Physiology or Medicine	2009	For the discovery of how chromosomes are protected by telomeres and the enzyme telomerase	2022; 2021; 2020; 2018; 2015; 2014; 2011
Martin Chalfie online	Chemistry	2008	For the discovery and development of the green fluorescent protein, GFP	2022; 2021; 2020; 2018; 2017; 2015; 2014; 2013; 2010; 2009
Steven Chu online	Physics	1997	For development of methods to cool and trap atoms with laser light	2022; 2021; 2020; 2019; 2018; 2016; 2015; 2014; 2013; 2001; 2000
Aaron Ciechanover	Chemistry	2004	For the discovery of ubiquitin-mediated protein degradation	2022; 2021; 2018; 2017; 2016; 2015; 2014; 2013; 2011; 2010; 2009; 2007; 2006; 2005
Ben L. Feringa	Chemistry	2016	For the design and synthesis of molecular machines	2022; 2021; 2017
Joachim Frank	Chemistry	2017	For developing cryo-electron microscopy for the high-resolution structure determination of biomolecules in solution	2022; 2021; 2019; 2018
Stefan W. Hell	Chemistry	2014	For the development of super-resolved fluorescence microscopy	2022; 2021; 2019; 2018; 2017; 2016; 2015
Avram Hershko	Chemistry	2004	For the discovery of ubiquitin-mediated protein degradation	2022; 2021; 2018; 2017; 2015; 2013; 2010; 2011; 2007
Robert Huber	Chemistry	1988	For the determination of the three-dimensional structure of a photosynthetic reaction centre	2022; 2021; 2019; 2018; 2017; 2016; 2015; 2014; 2013; 2011; 2010; 2009; 2008; 2007; 2006; 2005; 2004; 2003; 2002; 2001; 2000; 1999; 1998; 1995; 1989
Louis J. Ignarro	Physiology or Medicine	1998	For his discoveries concerning nitric oxide as a signalling molecule in the cardiovascular system	2022; 2018
William G. Kaelin, Jr.	Physiology or Medicine	2019	For the discovery of how cells sense and adapt to oxygen availability	2022; 2021
Brian K. Kobilka online	Chemistry	2012	For studies of G-protein-coupled receptors	2022; 2021; 2014; 2013
Jean-Marie Lehn	Chemistry	1987	For the development and use of molecules with structure-specific interactions of high selectivity	2022; 2021; 2017; 2014; 2013; 2011; 2010; 2009; 2002; 2000; 1990
Michael Levitt	Chemistry	2013	For the development of multiscale models for complex chemical systems	2022; 2021; 2020; 2018



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Benjamin List	Chemistry	2021	For the development of asymmetric organocatalysis	2022
Sir David W.C. MacMillan	Chemistry	2021	For the development of asymmetric organocatalysis	2022
Rudolph A. Marcus online	Chemistry	1992	For his contributions to the theory of electron transfer reactions in chemical systems	2022; 2021; 2017; 2015; 2013; 2010; 2009; 2006; 2005; 2003; 2000; 1998; 1995
Hartmut Michel	Chemistry	1988	For the determination of the three-dimensional structure of a photosynthetic reaction centre	2022; 2021; 2020; 2019; 2018; 2017; 2016; 2015; 2014; 2013; 2012; 2011; 2010; 2009; 2008; 2022; 2007; 2006; 2003; 2002; 2001; 1998; 1996; 1995; 1993; 1989
William E. Moerner	Chemistry	2014	For the development of super-resolved fluorescence microscopy	2022; 2021; 2020; 2019; 2017; 2015
Erwin Neher	Physiology or Medicine	1991	For their discoveries concerning the function of single ion channels in cells	2022; 2020; 2018; 2017; 2015; 2014; 2013; 2012; 2011; 2010; 2009; 2007; 2006; 2003; 2000; 1999; 1996; 1993
Sir Konstantin S. Novoselov	Physics	2010	For groundbreaking experiments regarding the two-dimensional material graphene	2022; 2021; 2020; 2019
Venki Ramakrishnan	Chemistry	2009	For studies of the structure and function of the ribosome	2022; 2020; 2015
Randy W. Schekman	Physiology or Medicine	2013	For the discovery of machinery regulating vesicle traffic, a major transport system in our cells.	2022; 2021; 2018; 2014
Brian P. Schmidt	Physics	2011	For the discovery of the accelerating expansion of the Universe through observations of distant supernovae	2022; 2021; 2020; 2019; 2017; 2016; 2015; 2014; 2012
Richard R. Schrock	Chemistry	2005	For the development of the metathesis method in organic synthesis	2022; 2021; 2017; 2013; 2009; 2006
Dan Shechtman	Chemistry	2011	For the discovery of quasicrystals	2022; 2019; 2018; 2017; 2016; 2015; 2013; 2012
Sir J. Fraser Stoddart	Chemistry	2016	For the design and synthesis of molecular machines	2022
Donna Strickland	Physics	2018	For the method of generating high-intensity, ultra-short optical pulses	2022; 2021; 2019
Arieh Warshel	Chemistry	2013	For the development of multiscale models for complex chemical systems	2022; 2021; 2015; 2014
Kurt Wüthrich	Chemistry	2002	For his development of nuclear magnetic resonance spectroscopy for determining the three-dimensional structure of biological macromolecules in solution	2022; 2021; 2019; 2018; 2017; 2016; 2015; 2014; 2013; 2012; 2010; 2009; 2006; 2005
Ada E. Yonath	Chemistry	2009	For studies of the structure and function of the ribosome	2022; 2021; 2019; 2018; 2017; 2016; 2015; 2014; 2013; 2011; 2010

Key Topic	Session	Format	Nobel Laureates	Time
Catalysis and Synthesis	The Path to Invention and Discovery in Catalysis	Lecture	MacMillan	Sunday, 26 June, 14:30-15.00 PM
Catalysis and Synthesis	Tungstacyclopentane Ring-Contraction Yields Olefin Metathesis Catalysts and More	Agora Talk	Schrock	Tuesday, 28 June, 12.15-13.00 PM
Catalysis and Synthesis	Structures of Intermediates of the Cytochrome C Oxidase Reaction Cycle Suggest a Revolution	Agora Talk	Michel	Wednesday, 29 June, 12.15-13.00 PM
Catalysis and Synthesis	Catalysis and Green Chemistry	Panel Discussion	MacMillan, Schrock	Wednesday, 29 June, 15.00-16.30 PM
Catalysis and Synthesis	Toward Universal Catalysts for Selective Synthesis	Lecture	List	Thursday, 30 June, 09.00-09.30 AM
Molecules, Proteins and Their Investigation	The Quest for the Structure of the Ribosome: Nature's Ancient Protein Factory	Agora Talk	Ramakrishnan	Monday, 27 June, 11.00-11.45 AM
Molecules, Proteins and Their Investigation	Biological Molecules Captured in Motion by Cryo-EM	Agora Talk	Frank	Monday, 27 June, 11.00-11.45 AM
Molecules, Proteins and Their Investigation	Artificial Molecular Machines: Going from Solution to Surfaces	Lecture	Stoddart	Tuesday, 28 June, 09.00-09.30 AM
Molecules, Proteins and Their Investigation	The Century of Vision in Molecular Biology	Agora Talk	Huber	Tuesday, 28 June, 11.00-11.45 AM
Molecules, Proteins and Their Investigation	Protein Large-Amplitude Dynamics by NMR Spectroscopy in Solution	Agora Talk	Wüthrich	Wednesday, 29 June, 11.00-11.45 AM
Molecules, Proteins and Their Investigation	Molecular-Scale Resolution in Fluorescence Microscopy	Lecture	Hell	Thursday, 30 June, 09.30-10.00 AM
Molecules, Proteins and Their Investigation	What Can Single Molecules Tell Us About Coronavirus RNA and Cryo-Electron Tomography?	Lecture	Moerner	Thursday, 30 June, 10.00-10.30 AM
Molecules, Proteins and Their Investigation	Perspectives in Chemistry - Supramolecular Chemistry and Beyond	Lecture	Lehn	Thursday, 30 June, 10.00-10.30 AM
Chemistry and Health	"Dr. NO – The Discovery That Led to a Nobel Prize and Viagra"	Agora Talk	Ignarro	Monday, 27 June, 12.15-13.00 PM
Chemistry and Health	Aquaporin Water Channels and Medical Science in Africa	Agora Talk	Agre	Monday, 27 June, 12.15-13.00 PM
Chemistry and Health	The VHL Tumor Suppressor Protein: Insights into Oxygen Sensing and Intercellular Communication	Lecture	Kaelin	Tuesday, 28 June, 09.30-10.00 AM
Chemistry and Health	The COVID-19 Pandemic and Bioethics	Agora Talk	Ciechanover	Tuesday, 28 June, 11.00-11.45 AM
Chemistry and Health	Synaptic Plasticity: Short- and Longterm	Agora Talk	Neher	Tuesday, 28 June, 12.15-13.00 PM
Chemistry and Health	Tackling Parkinson's Disease With Basic Science	Lecture	Schekman	Thursday, 28 June, 11.30-12.00 AM
Artificial Intelligence	Artificial Intelligence in Chemistry	Panel Discussion	Levitt, Warshel	Tuesday, 28 June, 15.00-16.30 PM
Artificial Intelligence	Multi Scale and Artificial Intelligence Studies of Biological Systems	Agora Talk	Warshel	Wednesday, 29 June, 11.00-11.45 AM
Innovative Materials	Quasi-Periodic Materials – A Paradigm Shift in Crystallography	Agora Talk	Shechtman	Wednesday, 29 June, 12.15-13.00 PM
Innovative Materials	Materials for the Future	Lecture	Novoselov	Thursday, 30 June, 11.00-11.30 AM
Science Community & Society	Trust in Science, Trust in Chemistry	Panel Discussion	Ramakrishnan, Schmidt	Sunday, 26 June, 15.00-16.30 PM
Science Community & Society	The Joy of Discovery	Lecture	Feringa	Monday, 27 June, 09.00-09.30 AM
Science Community & Society	Scientific Collaboration in Challenging Times	Science Breakfast	Bruce, Schekman	Wednesday, 29 June, 07.00-08.30 AM
Science Community & Society	The Everest Beyond the Everest	Life Lecture	Yonath	Thursday, 30 June, 12.00-12.45 AM
Science Community & Society	Mentoring Hub	Workshop	Novoselov	Thursday, 30 June, 17.00-18.30 PM
Science Community & Society	Lindau Guidelines	Workshop	Blackburn	Thursday, 30 June, 17.00-18.30 PM
Science Community & Society	The Diversity Challenge	Panel Discussion	Strickland	Friday, 1 July, 11.00-11.30 AM



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Young Scientists presenting at Next Gen Science at the 71st Lindau Nobel Laureate Meeting

Next Gen Science on Monday, 17.00–18.30 hrs – Stadttheater

Name	Affiliation	Abstract Title
Erika Schaudy	University of Vienna, Austria	Light-Directed Synthesis of Complex Nucleic Acid Libraries
Yonatan Chemla	MIT Massachusetts Institute of Technology, United States of America	Models and Measurements to Decipher Initiation Modes of Operonic mRNA Translation
Paul Klauer	University of California, San Francisco, United States of America	Developing Covalent Biologics Through Genetic Code Expansion for Cancer Therapeutics and Diagnostic
François Hollay	University of Oxford, United Kingdom	Therapeutics strategies for erythropoietic protoporphyria (EPP)
Abdelaziz Gouda	University of Toronto, Canada	Sustainable Biodegradable Materials and Devices Integrating Energy Conversion and Storage
Jason Lim	Institute of Materials Research and Engineering (IMRE), Singapore	Turning Waste Commodity Plastics into Resources for a Sustainable Future
Lukas Müller	Friedrich-Alexander-University Erlangen-Nuremberg, Germany	Smart Rust Makes Clean Water

Next Gen Science on Wednesday, 9.00–10.30 – Inselhalle

Liang Feng	Northwestern University, United States of America	Mechanisorption: Storing Energy in Non-Equilibrium Materials Through Active Adsorption
Robert Mayer	Université de Strasbourg, France	Deciphering Biochemical Amino Acid Synthesis
Philippe Schwaller	École Polytechnique Fédérale de Lausanne (EPFL), Switzerland	Accelerating Organic Synthesis with Chemical Language Models
Julia Westermayer	University of Warwick, United Kingdom	Discovering Photochemical Reactions with Machine Learning
Han Yi	National University of Singapore, Singapore	Atomically Precise Synthesis of Single-Wall Carbon Nanotube Fragments
Maximilian Bauer	University of Konstanz, Germany	Direct catalytic copolymerization of ethylene with carbon monoxide to polyethylene materials with in-chain ketones
Sebastian Beil	University of Groningen, Netherlands	Metal Electrodes in Complex Organic Synthesis

Wednesday, 29 June, 7.00 hrs

Science Breakfast

Scientific Collaboration in Challenging Times

hosted by Lindau Nobel Laureate Meetings

Sir Peter Bruce Physical Secretary & Vice President, Royal Society, United Kingdom

Randy W. Schekman University of California, Berkeley, United States of America

Martin Vetterli President, Ecole Polytechnique Fédérale de Lausanne, Switzerland

And young scientists from the audience

Moderator: Adam Smith Nobel Price Outreach, Sweden