Type them into questions box!

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Nobel Nominations Database
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https://cen.acs.org/sections/chemistry-nobels.html
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Read our story and test your knowledge of Nobel-worthy contributions from female chemists.

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Remind yourself which chemistry subdisciplines have historically won Nobel Prizes with our timeline.

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Thursday, October 4, 2018
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- Chris McCarthy
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Co-produced with the ACS Division of Chemical Health & Safety and the ACS Committee on Chemical Safety

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  American Chemical Society
- Dawn Mason
  Eastern Chemical Company
- Dominick Casadonte
  Texas Tech University
- Kali Serrano
  University of Illinois

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Who Will Win the #ChemNobel? Predicting the Next Nobel Laureate(s) in Chemistry

Share your comments in the webinar question window or tweet at us using the hashtag.

Neil Garg
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Beam Therapeutics
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C&EN Talented 12 Class of 2018

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C&EN Talented 12 Class of 2018
The #ChemNobel Committee

The Nobel Committee for Chemistry at the Royal Swedish Academy of Sciences is responsible for the selection of candidates for the Chemistry Prize from the names submitted for consideration by qualified nominators, who have been invited through formal letters…

The Committee members are elected for a period of three years from among the members of the Academy. In assessing the qualifications of the candidates, the Committee is assisted by specially appointed expert advisers.

Source: NobelPrize.org

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**Audience Survey Question**

How much do you think the makeup of the Nobel Committee influences the subdiscipline that wins the Nobel Prize?

- A great deal
- Somewhat
- Not at all

*Vote and then share your own answer with us in the webinar chat or on Twitter with the #ChemNobel hashtag!*
What Does The #ChemNobel Committee Do?

**September-October** — Nomination forms are sent out. The Nobel Committee sends out confidential forms to around 3,000 people — selected professors at universities around the world, Nobel Laureates in Physics and Chemistry, and members of the Royal Swedish Academy of Sciences, among others.

**February** — **Deadline for submission of nominations**. The completed nomination forms must reach the Nobel Committee no later than 31 January of the following year. The Committee screens the nominations and selects the preliminary candidates. About 250–350 scientists are nominated as several nominators often submit the same name.

**March-May** — **Consultation with experts**. The Nobel Committee evaluates preliminary candidates, advised by specially appointed experts for their assessment of the candidates’ work.

**June-August** — **Writing of the report**. The Nobel Committee puts together a report with recommendations to be submitted to the Academy. The report is signed by all members of the Committee.

**September** — Committee submits recommendations. The Nobel Committee submits its report with recommendations on the final candidates to the members of the Academy. The report is discussed at two meetings of the Chemistry Section of the Academy.

**October** — Nobel Laureates are chosen. In early October, the Academy selects the Nobel Laureates in Chemistry through a majority vote. The decision is final and without appeal. The names of the Nobel Laureates are then announced.

*Source: NobelPrize.org*
Meet the 2018 Nobel Chemistry Committee

Claes Gustafsson  
Chair  
Professor of medical biochemistry  
University of Gothenburg

Peter Brzezinski  
Professor of biochemistry & biophysics  
Stockholm University

Sara Snogerup Linse  
Professor of physical chemistry & molecular protein science  
Lund University

Olof Ramström  
Professor of chemistry (organic chemistry)  
KTH – Royal Institute of Technology  
Stockholm

Johan Åqvist  
Professor of cell & molecular biology  
Uppsala University

Gunnar von Heijne  
Secretary  
Professor of theoretical chemistry  
Stockholm University

Source: Nobel.org/Listed institutions

Committee Subdisciplines 2006-2018

Five committee members plus one secretary  
Secretary does not cast a vote unless also a member of the Committee.*

Subdisciplines in this chart were designated based on titles reported on archived Nobel Prize websites.

Interdisciplinary committee members given multiple designations. Example: biophysics counted as both biochemistry and physical chemistry.

Committee Subdisciplines 2006-2018

Committees And Prizes 2006-2011

Source: web.archive.org

Source: web.archive.org, nobelprize.org
Committees And Prizes 2012-2017

Audience Survey Question

How much time do you think should elapse between a big discovery and that discovery winning a Nobel Prize?

- Less than 5 years
- 5-10 years
- 11-20 years
- Greater than 20 years
The #ChemNobel Nominations Database

http://cen.acs.org/nobel-data.html

Neil’s 2018 #ChemNobel Pick

Robert G. Bergman
University of California, Berkeley

-and others-

For pioneering discoveries in catalytic C-H functionalization

“The catalytic (and selective) C-H functionalization of organic compounds has transformed from being a pipe dream into chemistry that is now widely used in academia and in drug discovery efforts.” — Neil Garg
Nicole’s 2018 #ChemNobel Pick

Christopher T. Walsh
Harvard Medical School

For chemical biology, natural product, and antibiotic advances
"Due to the current widespread prevalence of multidrug resistant bacteria across the globe, the importance of discovering and understanding how antibiotics are biosynthesized cannot be overemphasized."—Nicole Gaudelli

Joseph’s 2018 #ChemNobel Pick

Stanley Whittingham
Binghamton University

John B. Goodenough
University of Texas at Austin

Akira Yoshino
Asahi Kasei Corp.
LIBTEC

For the invention and development of Li-ion batteries
Carmen’s 2018 #ChemNobel Pick

Karl Deisseroth
Stanford University

For innovative optical tools that have shed unprecedented light on the brain

“Activating neurons in a lab setting can reveal what they do and how they connect. Optogenetics does this with the precision of tweezers where prior tools were like sledgehammers.”— Carmen Drahl

Lauren’s 2018 #ChemNobel Pick

Arthur L. Horwich
Yale University

Franz-Ulrich Hartl
Max Planck Institute of Biochemistry

For discovering chaperone proteins guide protein folding

“Given what we’re learning about neurodegenerative and other diseases, protein folding is more important than ever. And it’s a fundamental discovery that still hasn’t been recognized.”— Lauren Wolf
In your opinion who will win the 2018 Nobel Prize in Chemistry?

- Robert Bergman and others, for catalytic C-H functionalization
- Christopher Walsh, for chemical biology, natural product, and antibiotic advances
- John Goodenough, Stanley Whittingham, and Akira Yoshino, for lithium-ion batteries
- Karl Deisseroth and others, for brain imaging tools
- Arthur Horwich and Franz-Ulrich Hartl, for chaperone proteins

* Other (Tell more us in the chat)

Vote for which one of these you think is most likely to claim the Nobel, then share your own picks in the chat box or on Twitter with the #ChemNobel hashtag.

Discover C&EN’s coverage on Oct. 3, 2018, the day of the #ChemNobel Prize!

News Coverage
C&EN will cover the Nobel announcement as soon as the news breaks.

Nobel Prize Video Explainer
The Speaking of Chemistry team will give you the lowdown on 2018’s #Chennobel – prizewinning research.

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