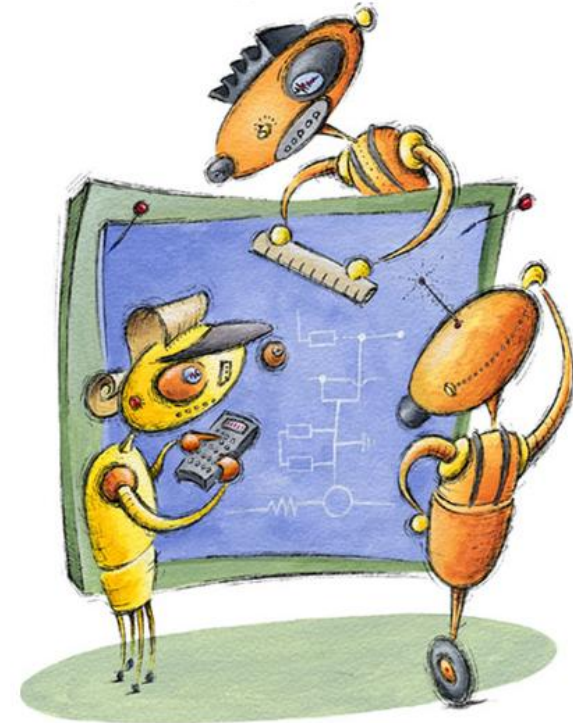




MathWorks is a proud sponsor of the MIT Science Trivia Challenge and wishes the teams good luck!



## SCIENCE TRIVIA CHALLENGE!



Wednesday, April 17, 2019

The Eli and Edythe L. Broad Institute of MIT & Harvard  
Cambridge MA

Sponsored By:



MathWorks



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@MITtrivia Live Tweet using #MITtrivia19

## High School Division - Round A

		Table
In Our Element	King Philip Regional High School	1
Tris(4-(dimethylamino)phenyl)methylm chloride	Newton South High School	2
Nutan Nors Sahyens Tim Won	Newton North High School	3
CRLS Science Falcons	Cambridge Rindge and Latin School	4
Fig Neutrons	Algonquin Regional High School	5
Warriors	Andover High School	6
Montrose Rare Metals	Montrose School	7
The Fig Neutrons	Nashua, NH	8
Eric Spitzer	North Andover High School	9

## High School Division - Round B

		Table
Forces of Nature	King Philip Regional High School	1
Smells Like Almonds	Newton South High School	2
Newt Tan Norf Sigh Ants Teem Too	Newton North High School	3
CRLS Silver and Black	Cambridge Rindge and Latin School	4
Atomic Response	Algonquin Regional High School	5
Aristotle's Lanterns	Acton Boxborough	6
Andover	Andover High School	7
300 Degrees Kelvin	Nashua, NH	8
APR Dragons	Academy of the Pacific Rim, Hyde Park, MA	9

## Middle School Division

		Table
Smarticle Particles	King Philip Middle School	1
Lefties and Wrighties	Wright Science and Technology Academy, Chelsea, MA	2
Science Guys	Madeline English School, Everett, MA	3
H-He-Lithium	Curious Science & Learning	4
Naruto	Ardley Middle School	5
Nano Know-It-Alls	King Philip Middle School	6
Nebulae	Belmont	7
Radio Active Hammers	Curious Science & Learning	8
TBD	TBD	9

## General Rules

- This competition is for fun, so play fairly!
- No outside references are allowed, including books, cheat sheets, informative t-shirts, computers, handheld devices, etc. Pencils, pens, and blank paper are allowed and are provided.
- Team members may confer with their teammates on each question, but neither team members nor audience members are allowed to shout out answers or offer any other distractions while teams are considering questions.

# SCIENCE TRIVIA CHALLENGE!

## Thanks to all of our volunteers!

*COMMITTEE MEMBERS & VOLUNTEERS:* Bob Ferrara (MIT '67), Co-Chair; Meghan Jendrysik (MIT '97), Co-Chair; Bonny Kellermann (MIT '72), Co-Chair; John McGoldrick (MIT '73), Co-Chair; Alisha Weight (MIT '13), Co-Chair; Catherine Cooper (MIT '00), Chris Dippel (MIT '75), Ngozi Eze (MIT '05), Jennifer Lam, Peg LeGendre, Jacky McGoldrick, Devjani Ray, Chris Santos (MIT '74), Brian Saper, Karen Seo (MIT '75), Flora Su (MIT '18), Johanna Westcott

*QUESTION COMMITTEE:* Chris Dippel (MIT '75), Jacky McGoldrick, John McGoldrick (MIT '73), Chris Santos (MIT '74), Megan Snyder, Alisha Weight (MIT '13)

Interested in helping next year?  
Do you have questions to contribute?

Contact us at  
[sciencetrivia@mit.edu](mailto:sciencetrivia@mit.edu)

or  
[web.mit.edu/trivia](http://web.mit.edu/trivia)

Like us on Facebook to see/add photos from tonight at

<http://www.facebook.com/MITtrivia>

## Prizes

Everyone here is a winner. Thank you for participating! **All participants** receive a certificate of participation; a sticker and lip balm from Mathworks; a bag, notebook, bracelet, bookmark, and program from the Cambridge Science Festival; a collapsible water bottle from the MIT Alumni Association; a coloring book and a comic book from Cell Press; and one free pass each to the Museum of Science, the Discovery Museum of Acton, MA, and the MIT Museum.

The **Middle School Runner-Up** team members will receive MIT sweatshirts from the MIT Coop. The **High School Silver Runner-Up** team members will receive two additional passes each to all three sponsoring museums plus a Broad Institute mug. The **High School Gold Runner-Up** team members will receive MIT sweatshirts from the MIT Coop. The **Middle School, High School Gold, and High School Silver Winning** teams will have lunch or dinner with one of our Nobel Laureates and receive USB wristbands from the Cambridge Science Festival.

### Thank you to our Prize Sponsors!

Museum of Science, Boston, MA  
Discovery Museum of Acton  
MIT Museum  
MIT COOP  
Cambridge Science Festival  
Cell Press



## Thank you to our Nobel Laureates!



**Phil Sharp**, MIT Professor of Biology  
1993 Nobel Prize Winner “for the discovery that genes in eukaryotes are not contiguous strings but contain introns, and that the splicing of messenger RNA to delete those introns can occur in different ways, yielding different proteins from the same DNA sequence”



**Wolfgang Ketterle**, MIT Professor of Physics  
2001 Nobel Prize Winner “for the achievement of Bose-Einstein condensation in dilute gases of alkali atoms, and for early fundamental studies of the properties of the condensates”



**Rainer Weiss**, MIT Professor of Physics  
2017 Nobel Prize Winner “for decisive contributions to the LIGO detector and the observation of gravitational waves”

# SCIENCE TRIVIA CHALLENGE!

5:00 PM - 6:00 PM	Registration & Meet the Scientists
6:00 PM - 6:05 PM	Welcome
6:05 PM - 6:25 PM	High School Round A
6:25 PM - 6:45 PM	High School Round B
6:45 PM - 7:00 PM	Intermission
7:00 PM - 7:05 PM	A Word from our Sponsor, Mathworks
7:05 PM - 7:45 PM	Middle School Round
7:45 PM - 8:00 PM	Intermission
8:00 PM - 8:20 PM	High School Silver Final Round
8:20 PM - 8:40 PM	High School Gold Final Round
8:40 PM - 9:00 PM	Awards Ceremony



## Our Moderator Erika Ebbel Angle

Erika Ebbel Angle received her Ph.D. in Biochemistry in 2012 from Boston University School of Medicine. She holds a B.S. from the Massachusetts Institute of Technology. Erika is the CEO and co-founder of Ixcela: The Internal Fitness Company, a biotechnology company aimed at developing tests and interventions to improve gut microbiome efficacy and health.

In 2014, the Boston Business Journal selected her as one of the “40 Under 40” business and civic leaders who are making a major impact on their respective fields in the Boston area. In 2013, the Boston Chamber of Commerce selected her as one of the “Ten Outstanding Young Leaders” in Boston. Selected by L’Oreal Paris as a “2007 Woman of Worth” for her work with Science from Scientists, Erika has been featured on Lifetime TV and Nova Science Now on “The Secret Lives of Scientists and Engineers.” She is the host of “The Dr. Erika Show,” an educational science TV show for children.

Erika served as a Commissioner for the MA Commission on the Status of Women. Erika was Miss Massachusetts 2004 in the Miss America Scholarship program.



# SCIENCE TRIVIA CHALLENGE!

## Meet the Scientists



### Alisha Caliman, Ph.D

Scientific Field of Interest - Cancer  
Title - Computational Chemist



### Christa Blomquist

Title - Research Associate  
Scientific Field of Interest - Cancer



### Brian Chamberlain, PhD

Title - Senior Research Scientist  
Scientific Field of Interest - Medicinal chemistry and organic synthesis



### Daniel Leary

Title - Research Associate  
Scientific Field of Interest - Protein Biophysics



### Steven Ferrara

Title - Research Scientist  
Scientific Field of Interest - Synthetic Organic Chemistry and Medicinal Chemistry



### Debjani Pal

Title - Post Doctoral Associate  
Scientific Field of Interest - Cancer Biology, Drug resistance, Protein degradation



### Teni Dowdell

Title - Scientific Project Manager  
Scientific field of interest – Genomics