



Grab a cup of coffee and a bagel and join us for **Saturday Morning Science**—a series of one-hour science talks.

These are not typical science lectures. Expect to be entertained, to see demonstrations, to learn a lot, and—best of all—to want to come back for more.

**Saturday Morning Science** is free and open to the public. No science background is required. All ages are welcome.

Bagels, donuts, coffee, and juice are served before the talks, so come early. Talks start at 10:30. Doors open and refreshments are available about a half-hour beforehand. Seating is limited to 250.

#### Questions, Comments, Suggestions

satscience@missouri.edu  
<http://satscience.missouri.edu>  
[twitter.com/satsci](https://twitter.com/satsci)

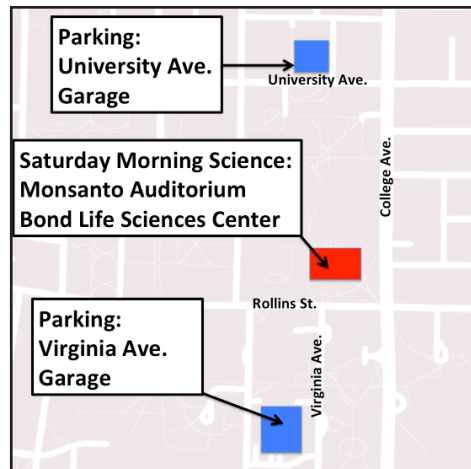
#### Watch past talks on iTunesU:

<https://itunes.apple.com/us/itunes-u/saturday-morning-science/id525505899>

**Saturdays**  
**10:30 a.m. – 11:30 a.m.**  
**Monsanto Auditorium**  
**Corner of Rollins Street & College Avenue**

For directions, visit:  
<http://map.missouri.edu/?bldg=37156>

Free weekend parking is available in the Virginia Avenue Garage and the University Avenue Garage. The Virginia Avenue Garage is closer but can be busier.



SMS is largely a volunteer effort. Our sponsors provide funding for refreshments, advertising, and occasional external speakers. If you would like to make a tax-deductible contribution to Saturday Morning Science, please contact us at [satscience@missouri.edu](mailto:satscience@missouri.edu).

#### Organizers

D Cornelison, Marc Johnson

#### With help from:

Abagael Cornelison, Cynthia Scheiner,  
 Johanna Kramer, Melody Kroll

#### Thanks to Our Sponsors!



MU Office of Research

MONSANTO



#### Schedule At-A-Glance

- 21 Feb Living and Working with Rare Diseases
- 28 Feb The Evolution of Cooperation: Why We Are (Sometimes) Nice to Each Other
- \*7 Mar Standards, Students, and Science Literacy
- 14 Mar You Are What Your Father Ate
- 21 Mar SPRING BREAK - NO SMS
- 28 Mar SPRING BREAK - NO SMS
- 4 Apr Early Agriculture in the Americas
- 11 Apr At the Dawn of Animal Life: Exceptional Views of an Exceptional Evolutionary Story
- 18 Apr Plants “Hear” the Darndest Things
- 25 Apr The Trouble With Color
- 2 May Surrounded by Sound: Hearing and Learning Through Cochlear Implants
- 9 May The Beginning of the Rest of Your Life

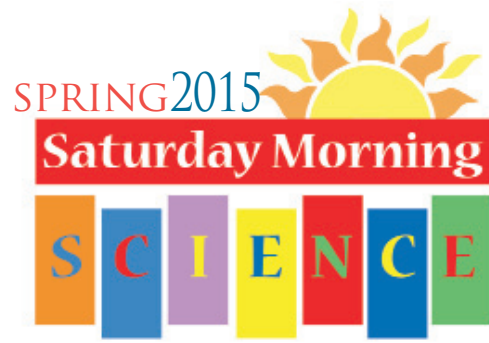
\*Non SMS talk given by the MU ShowMe InABox Program



## SPRING 2015 SCHEDULE

**Saturdays**  
**10:30 a.m. – 11:30 a.m.**

**Monsanto Auditorium**  
**Bond Life Sciences Center**  
**Corner of Rollins St. & College Ave.**



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**Monsanto Auditorium**  
**Corner of Rollins St. & College Ave.**



**21 February**

Linh Ngo, Madeline Miller  
*Genetics Area Program*

**Living and Working with  
Rare Diseases**

The end of February marks Rare Disease Day, and this year's focus is on "Living with a Rare Disease." Linh Ngo will describe her experiences with Marfan's Syndrome and Madeline Miller will discuss advances in research for a cure for Spinal Muscular Atrophy.



**28 February**

Karthik Panchanathan,  
*Anthropology*

**The Evolution of Coop-  
eration: Why We are  
(Sometimes) Nice to  
Each Other**

This talk will introduce some of the basic concepts and models of sociobiology, a field that studies the evolution of social behavior, including altruism and spite. Hear about how cooperation and punishment varies across societies.



**7 March**

**NO SMS  
Hosted by ShowMe InABox**

Veeko Lucas, *Shelby County  
Schools, Kentucky*

English Language Arts/Communication Skills are essential elements of the education of young scientists. The experience of Kentucky and other early adopters of the Common Core Standards can provide valuable insights for Missouri.

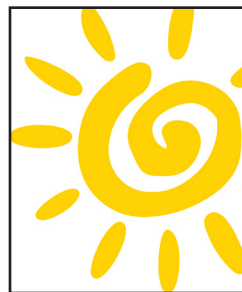


**14 March**

Oliver Rando, *University of  
Massachusetts Medical School*

**You Are What Your Father  
Ate**

There is increasing evidence that information beyond the DNA sequence gets passed from one generation to the next: for example, a father's access to food can alter metabolism in his children. I will discuss our efforts to understand the molecular mechanisms responsible for ancestral control of health and disease.



**SPRING BREAK  
NO SMS:**

**21 March**

**28 March**



**4 April**

Deborah M. Pearsall,  
*Anthropology*

**Early Agriculture in the  
Americas**

Plant domestication began nearly 10,000 years ago, in the tropical lowlands of Central and South America. Come hear what archaeology and paleo-ethnobotany -the study of ancient plant remains- can tell us about the crops and agricultural practices of Native peoples in the Americas.



**11 April**

Jim Schiffbauer, *Geological  
Sciences*

**At the Dawn of Animal  
Life: Exceptional Views of  
an Exceptional  
Evolutionary Story**

Our earliest animal ancestors lived nearly 600 million years ago; in the geological blink of an eye, they evolved to representatives of nearly every major animal group known today. We'll talk about how and why this incredible event occurred and more.



**18 April**

Heidi Appel, *Plant Sciences*  
Rex Cocroft, *Biological Sciences*

**Plants "Hear" the  
Darndest Things**

Even without ears, plants experience an incredible world of vibrations. We will explore the strange universe of plant-borne vibrations, and talk about new research showing that plants pay attention to the crunching of hungry caterpillars.



**25 April**

Jim Van Dyke, *Art History and  
Archaeology*

**The Trouble With Color**

Color is everywhere in our world, informs our sense of everything. Yet it is at the same time something elusive, mysterious, and even sometimes maligned. This lecture will explore why this has been so, and discuss how color has been understood by artists and scientists since Isaac Newton.



**2 May**

Mary Fagan, *School of Health  
Professions*

**Surrounded by Sound:  
Hearing and Learning  
Through Cochlear  
Implants**

Cochlear implant technology has revolutionized auditory learning for infants with profound hearing loss. Exciting learning and behavioral changes reveal how infants respond to cochlear implants and where the field of auditory prosthetics may focus next.



**9 May**

Laura Schulz, *Obstetrics and  
Gynecology*

**The Beginning of the  
Rest of Your Lives**

The environment we are exposed to in the womb shapes our health, even as adults. Learn about efforts to understand how maternal conditions can affect things like obesity and cardiovascular health decades later.