# icems Learning Lounge

## January 26, 2017 2pm

## Kyoto University iCeMS Main Buillding 2F Seminar Room

Right at the "Kyodai Seimon-Mae" city bus stop on the northwest corner of the Higashi-Ichijo intersection

#### No registration required

(iCeMS members register via lab)

#### Language

Presentations: English Q&A: English and Japanese



The "Learning Lounge" features young scientists who, in 20 minutes deliver a presentation that will persuade any curious listener, even those without a scientific background, why their research area—not just the personal research of the speaker—is important to the world.





#### **Shapes of Neurons Shape Our Behavior**

How does your brain recognize a fly, decide to catch it, and then move your hand? Even a simple activity such as this requires neurons to make many, many precise connections in the brain. Different neuronal shapes can control the way connections are made, and studying the rules of how these shapes are formed can help us better understand how the brain works.

### **Foul Play! Making Self-Cleaning Surfaces**

What if we had self-cleaning surfaces? Currently, cleaning of filters used in industry costs a great deal of time and money. Fouling on medical devices can lead to rejection by the body. In my talk I explain how fouling occurs and how we can develop self-cleaning surfaces.





