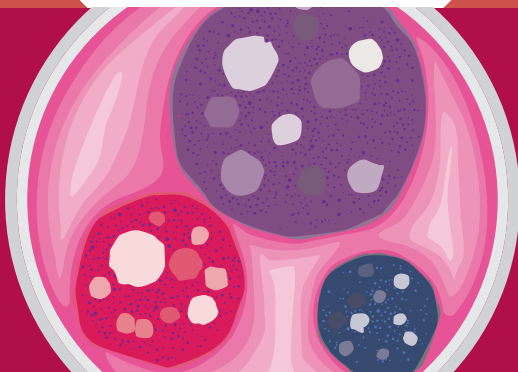
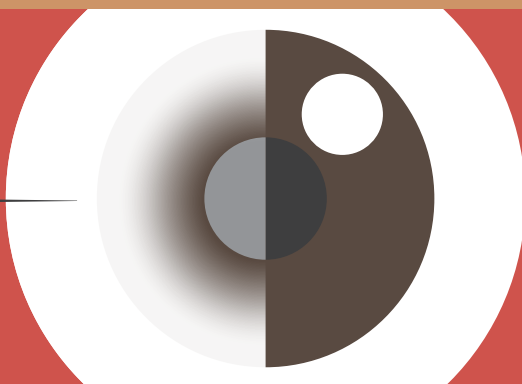




**MEET** the university professors  
**LEARN** the latest in science and technology  
**FIND** collaboration and commercialization opportunities

# Science-for-Lunch<sup>TM</sup>

<http://science-for-lunch.ust.hk>



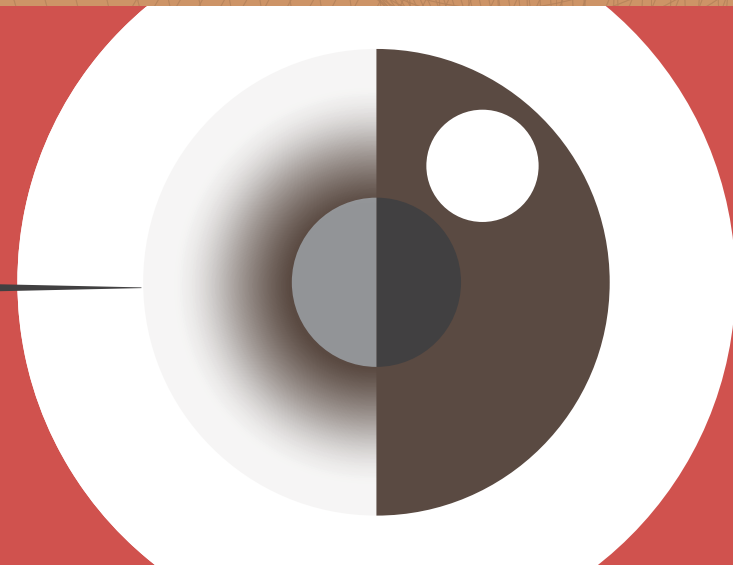
4.Oct.2016

/MEET

**PROF YING CHAU**

Division of Biomedical Engineering and  
Department of Chemical and Biomolecular Engineering

Eye diseases are more prevalent in aging populations and are attracting increasing attention from the pharmaceutical industry. For many people, conditions that affect the retina require monthly injections of drugs into the eye. In addition to patient discomfort, this increases the risk of infection and cataracts. Prof Chau's research team has developed injectable biomaterials of hydrogel and nanoparticles that are long lasting, thus cutting down on the number of undesirable injections and reducing the healthcare cost. Her lab has also patented a needleless method that employs ultrasound to deliver drugs into the eye, and this technology is now being commercialized by a former student. For Prof Chau, "sight" has yet another meaning – Student Innovation for Global Health Technology (SIGHT). This new education platform, founded and currently directed by Prof Chau, aims to transform the collaborative creativity of students into a tangible impact on public health under low-resource conditions. She will introduce her research projects and activity of SIGHT.



/LEARN

Passion for **SIGHT**

22.Nov.2016

/LEARN

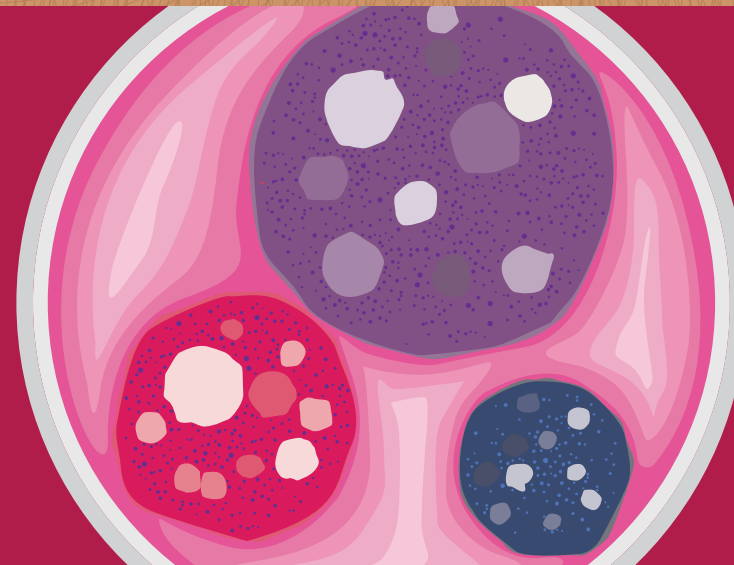
The Life of a **STEM CELL**:  
from Young to Old

/MEET

**PROF TOM CHEUNG**

Division of Life Science

There is no doubt that aging populations present one of the biggest challenges in today's world. Better understanding of the process of biological ageing is key to improving health and longevity in modern society. Human tissue has various levels of regenerative potential; tissue such as the adult heart and the central nervous system have very little power to regenerate, while skeletal muscle and skin have a remarkable ability to regenerate following injury. Research at HKUST is focusing on somatic stem cell biology and the signaling pathways involved in tissue regeneration as well as stem cell ageing. This talk examines how stem cells repair tissue in normal circumstances as well as during organismal ageing, particularly focusing on stem cell-mediated repairs.



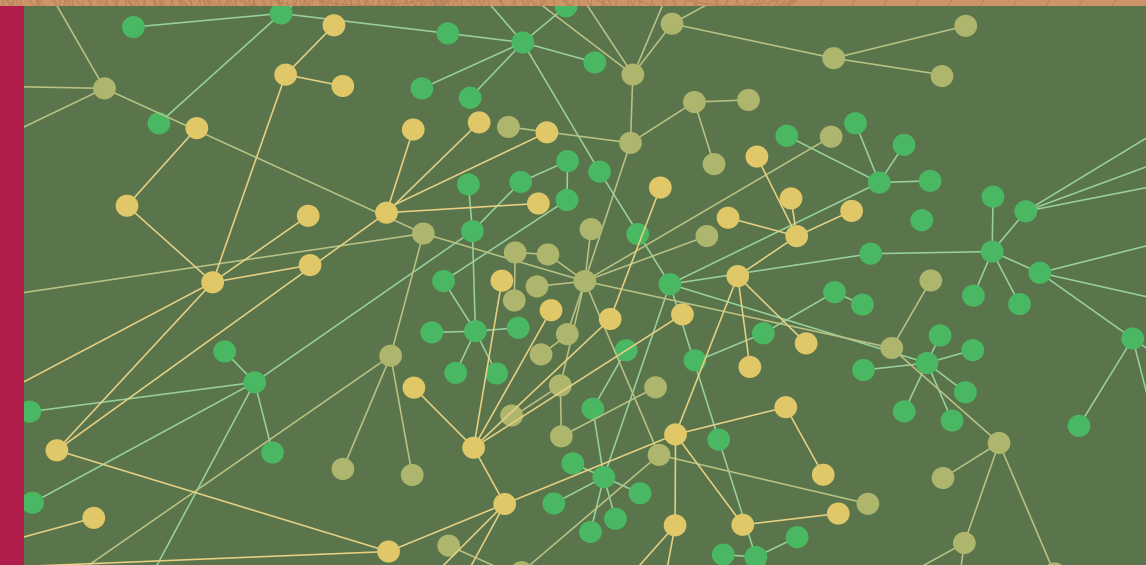
/MEET

**PROF HUAMIN QU**

Department of Computer Science and Engineering

Big data is large and complex. Researchers have developed advanced data mining and machine learning techniques to reveal patterns. However, people without a mathematics or computer science background may find these methods and findings difficult to understand. Data visualization, which turns data into intuitive visual forms, is widely considered a key to big data analytics and has become a hot topic, with relevant stories appearing in the New York Times, Washington Post, Wall Street Journal, Harvard Business Review and Wired, among others.

As well as introducing the history of data visualization, its main research problems and major approaches, the talk covers opportunities and challenges. Hear about ongoing visualization research projects at HKUST and how data visualization helps reveal rumor propagation on social media such as Twitter and WeChat, learning behaviors of students on MOOCs platforms, and human mobility patterns based on mobile phone and transportation data.



2.Dec.2016

/LEARN

What Does **BIG DATA**  
Look Like?



Venue: **HKUST Business School Central  
15/F, Hong Kong Club Building,  
3A Chater Road, Central, Hong Kong**

Time: **12:30 pm - 2 pm**

## How to Register

1. Online registration opens one month before the talk.
2. A registration fee of HK\$150 will be charged for a talk per person. The payment will be done online with credit card.
3. Confirmation notice will be delivered to guests by email.
4. For enquiry, please contact Miss Fanny Yue at 2358 5019 or email to [science.for.lunch@ust.hk](mailto:science.for.lunch@ust.hk).

## Recommend A Friend

Please fill in all fields of the form and we will invite your friend to future Science-for-Lunch™.

Name

Organization

## Friend's contact

Mr / Ms / Mrs / Dr / Prof (Please circle the appropriate one)

Last Name

First Name

Title

Organization

Email Address

Contact Number

Kindly be reminded to have your friends' consent to provide their contact details.

Please scan the completed form and email to [science.for.lunch@ust.hk](mailto:science.for.lunch@ust.hk) or fax to (852)2705 9119.

*The personal data collected (i.e. name, contact details, and other relevant information) will be used by the University for promotion of our events and news. The data will be only used after owner's consent. In any circumstances, the University will not transfer the personal data to a third party for direct marketing purpose.*

Science-for-Lunch™ is one of the community engagement programs initiated by the Institutional Advancement and Outreach Committee of the University Council.