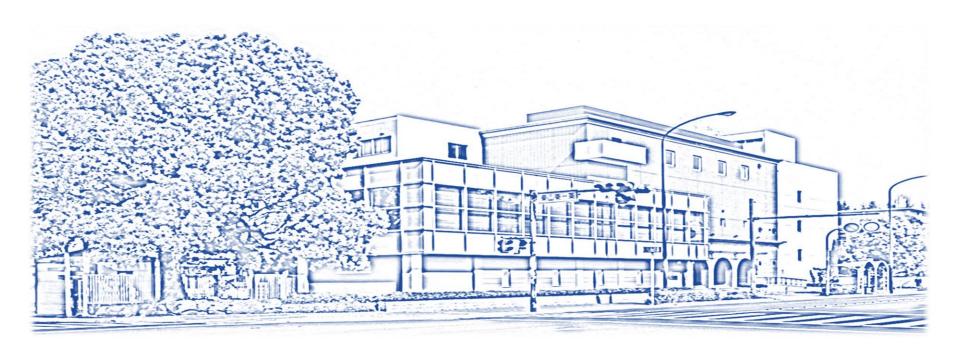


Institute for Integrated Cell-Material Sciences

物質-細胞統合システム拠点



Overview of iCeMS



World Premier International Research Center Initiative

- Started in 2007 as a WPI institute.
- Joined KUIAS in 2017.
- Focus is interdisciplinary cell biology and materials science

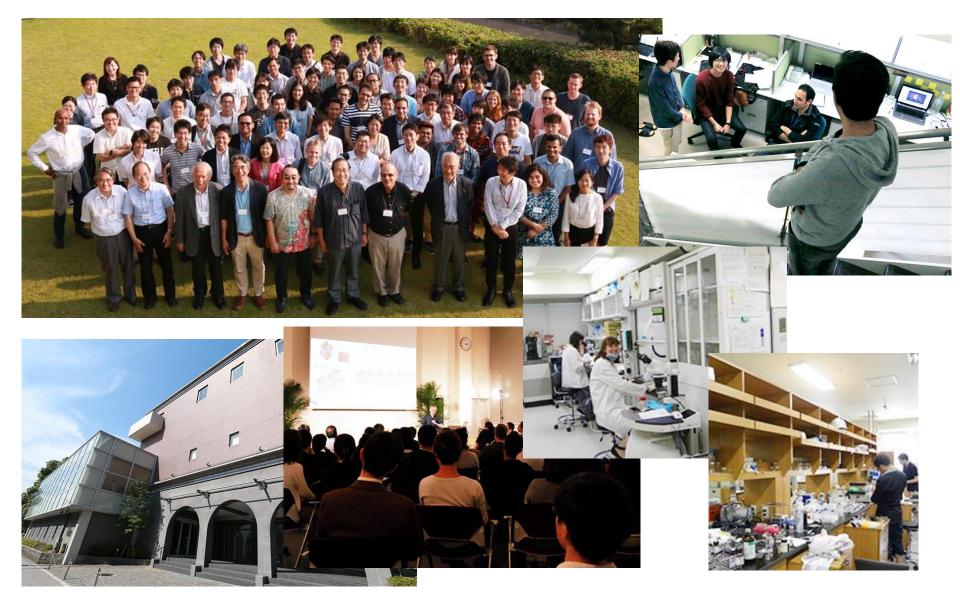


iCeMS research



Missions:

- Develop materials to understand cell functions
- Produce materials to control cell processes
- Create cell-inspired materials.



- 13 Pls, around 85 researchers in total (2017)
- Around 25 % foreign researchers, around 25 % female researchers
- English is the official language

iCeMS Principal Investigators

Chemical Biology



Motonari Uesugi



Fujita

Imahori





Sivaniah



Kitagawa

Materials Science

Director

Cell Biology



Ryoichiro

Kageyama

Dan Ohtan Wang

Itaru Hamachi

Tamanoi

Shuhei

Furukawa







Horike



Hiroshi Kageyama

Peter

Carlton

Suzuki



Kengaku













Hiroshi Kitagawa



Matsuda



Kouichi Hasegawa



Hiroshi Sugiyama



Yasuo Mori



Daniel Packwood



Koichiro Tanaka



Mitinori Saitou



Ken-ichiro Kamei

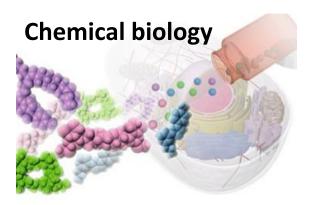


Sugimura

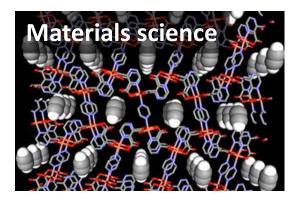
Biophysics

Tissue Engineering

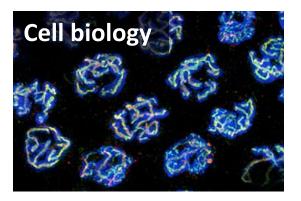
Some iCeMS research topics



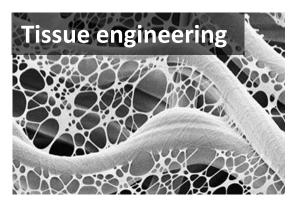
- RNA in neurons
- Synthetic molecules for cell and gene control
- Nanoparticles for cancer therapy
- Protein encapsulation



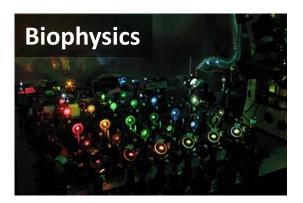
- Porous organic frameworks
- Polymer membranes
- Supramolecular chemistry
- Materials theory and mathematics



- Neuroscience
- Cell membrane proteins
- Stem cell biology
- Developmental biology

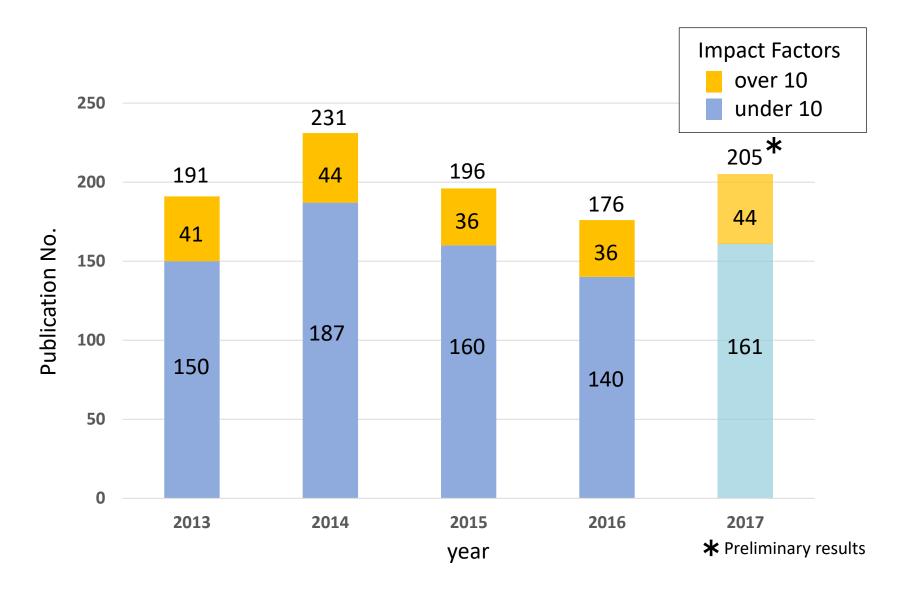


- Body-on-a-chip
- Stem cell engineering



- Laser spectroscopy
- Cell and tissue mechanics

Paper publications (articles, letters, reviews)





- Feel free to join our seminars and outreach events!
- Information is displayed on the iCeMS website.

https://www.icems.kyoto-u.ac.jp/ja/