Institute for Integrated Cell-Material Sciences
Kyoto University

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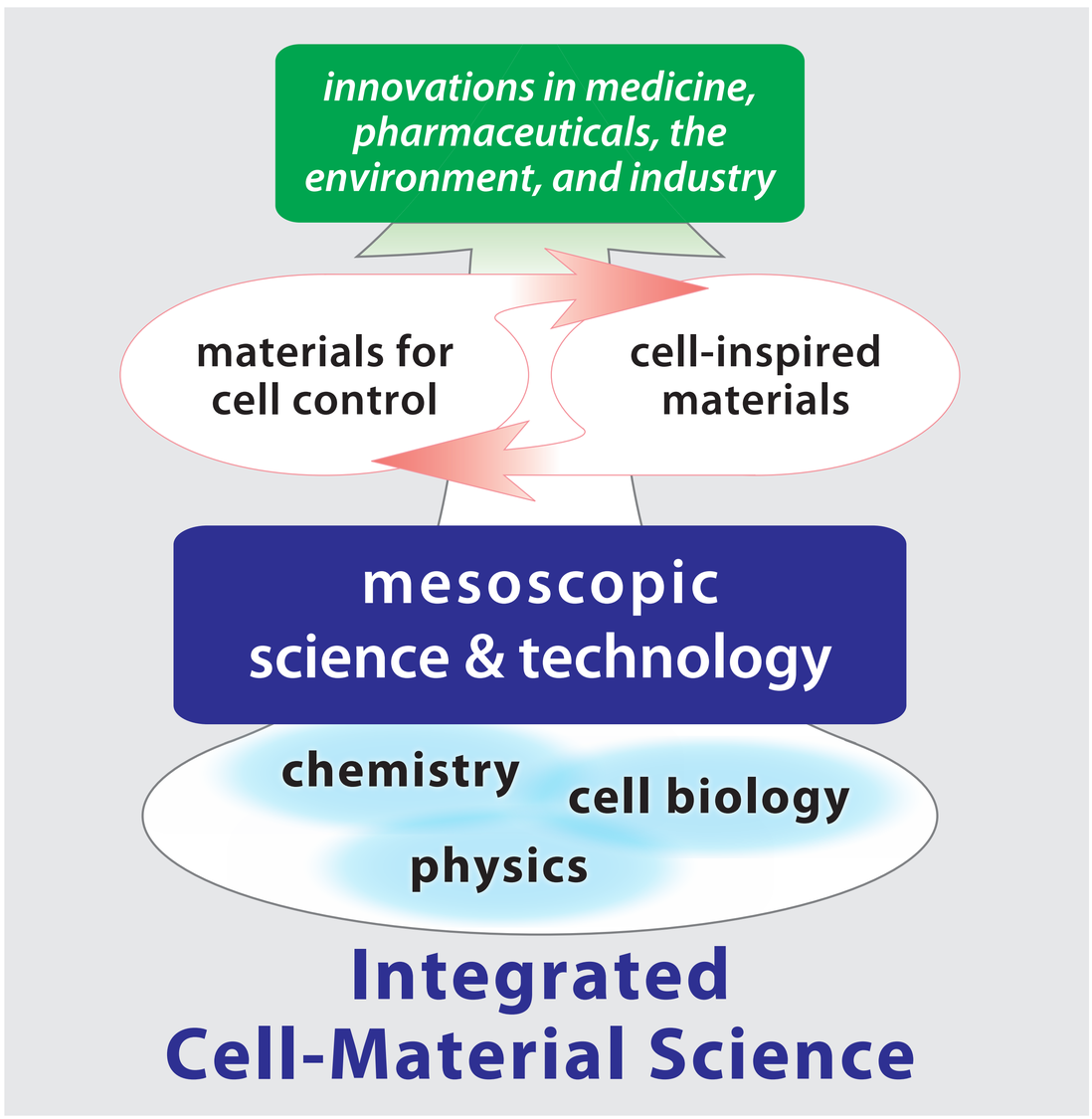
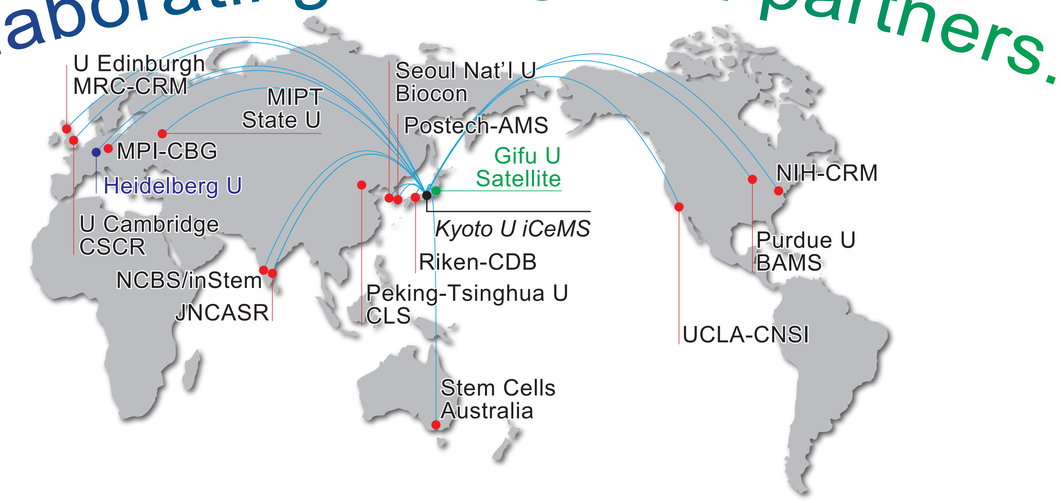
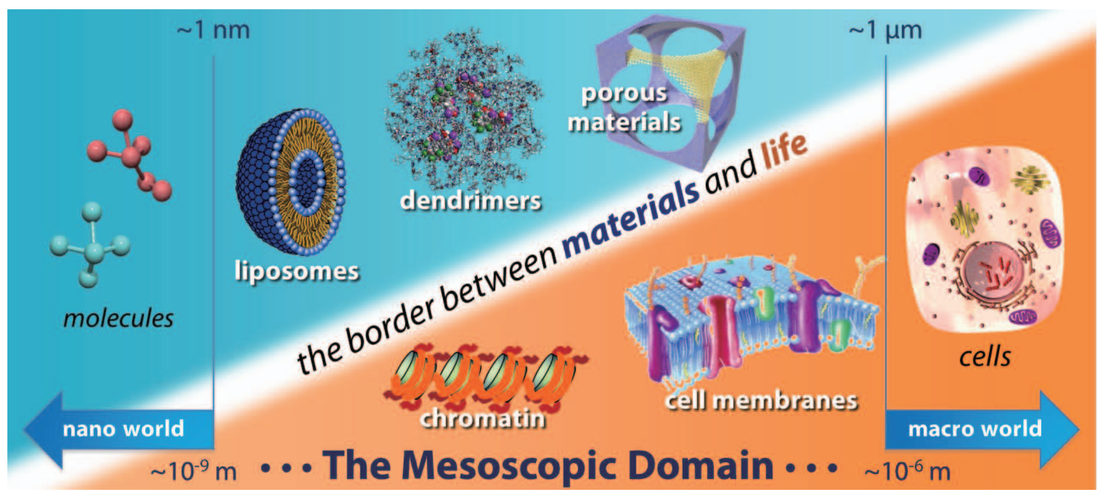
Fusing cell and material sciences.

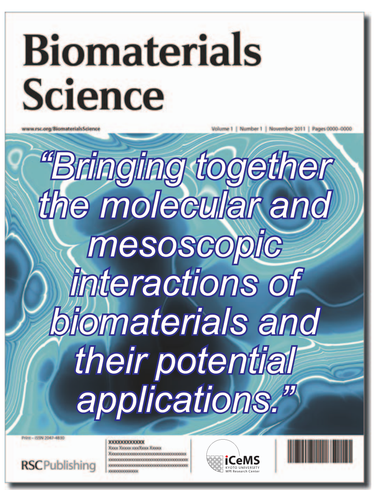


All cellular processes can ultimately be comprehended as chemical events, and such a chemical understanding of cells should allow us to mimic cellular processes using chemical materials. Our institute seeks to illuminate precisely such a chemical basis of cells, creating compounds to control processes in cells such as **stem cells** (*materials for cell control*) in addition to sparking cellular processes to create chemical materials (*cell-inspired materials*). Combining Kyoto University' s established strength in cell biology, chemistry, and physics to delve deeply into the **mesoscale** world lying at the boundary of materials and life, we are making a concerted effort, through interdisciplinary research, to ultimately create a new research field of *integrated cell-material science*.

Collaborating with global partners.







In January 2013 the **Royal Society of Chemistry** published the first issue of *Biomaterials Science*, a joint venture with iCeMS. Its Founding Director **Norio Nakatsuji** (right) and PI **Hiroshi Sugiyama** serve as co-editor-in-chief and associate editor respectively. To commemorate the launch, an iCeMS-RSC joint symposium, eititled "*Cell-Material Integration and Biomaterials Science*," was held at Kyoto University on 18–19 March 2013.


iCeMS Director **Susumu Kitagawa**


iCeMS Deputy Director **Ryoichiro Kageyama**


iCeMS Deputy Director **Motonari Uesugi**


CiRA* Director, iCeMS PI & Scientific Advisor **Shinya Yamanaka**


iCeMS Main Building


Faculty and staff at an iCeMS annual retreat

iCeMS young scientists from across the globe

*CiRA: Center for iPS Cell Research and Application, Kyoto University

wpi World Premier International Research Center Initiative | Ministry of Education, Culture, Sports, Science and Technology (MEXT)