

# 214<sup>th</sup>

# iCeMS Seminar

June 22, 2018

10 am–12 pm

Kyoto University KUIAS/iCeMS Main Building  
2F Seminar Room

Dr **Nicholas Graham**

Mork Family Dept. of Chemical Engineering and Materials  
Science, University of Southern California



## Proteomic and metabolomic approaches to elucidate cell phenotypes

Many disease states including diabetes, inflammation and cancer involve dysregulation of signal transduction and metabolic pathways. Here, we will present our recent results demonstrating systems biology approaches using proteomics and metabolomics to understand cellular function, including how nucleotide metabolism determines replicative senescence of non-transformed cells and how DNA copy number alterations drive the metabolic phenotype of cancer cells.

More details are available at the iCeMS website:  
[www.icems.kyoto-u.ac.jp](http://www.icems.kyoto-u.ac.jp)

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**Hosted by** Institute for Integrated Cell-Material Sciences (iCeMS),  
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