

GTR seminar, Nagoya University

“Interpretation of Antibody Function on a Repertoire Scale”



Professor Brandon DeKosky
University of Kansas



October 8 (Tue), 2019, 16:00-17:30

Venue: Lecture Room 2, Graduate School of Bioagricultural Sciences

Language : English

Antibody responses are critical features of the human immune response that can provide protection against disease, and can also result in autoimmunity under certain conditions. Antibody drugs have also become a leading class of therapeutics due to the high specificity of antibody binding to protein targets. Recently developed technologies in paired heavy:light sequencing, native antibody library display, and computational analysis of NGS datasets have opened up new possibilities for discovering and annotating antibodies from large populations of single B cells. Additionally, new strategies in antibody library design are enabling comprehensive assessments of unique antibody improvement pathways. We will discuss the development and application of these technologies and to identify new antibodies with desired functional properties.



Host: Takaaki KOJIMA (4144)