Interpreting Antibody Function on a Repertoire Scale

Thursday March 5, 2020
4:00 pm - 5:00 pm

NEW LOCATION THIS MONTH
Arnold Building - Behnke Suites- Fred Hutch
1100 Fairview Ave N, Seattle WA 98109

FEATURING
BRANDON DEKOSKY, PHD
Assistant Professor, Pharmaceutical Chemistry
Assistant Professor, Chemical Engineering
The University of Kansas

Dr. Brandon DeKosky is an Assistant Professor at the University of Kansas Departments of Pharmaceutical Chemistry and Chemical Engineering, where his laboratory leverages recent advances in next-generation DNA sequencing technologies to achieve a more comprehensive understanding of immune function and accelerate the development of new vaccines and therapeutics. The DeKosky research group has a special emphasis on studying protective anti-HIV antibody responses that may lead to new preventive therapeutics or broadly protective HIV vaccines. Dr. DeKosky is a co-inventor of the very first technology for sequencing the antibody proteins encoded by B cells at the single-cell level, at a massive scale (for example, over 5 million single B cells in a one-day experiment), which enhanced throughput for antibody sequencing and functional screening by multiple orders of magnitude compared to traditional antibody discovery platforms. His research group has also pioneered the associated bioinformatic methods for rapid statistical analysis of the very large datasets generated by this approach.

Webcast Available
More Info: cfar@uw.edu