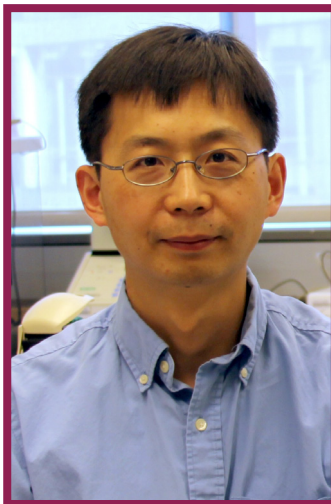


Distinguished Seminars on Epigenomics

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Single Cell Analyses of the Human Brain

Individual cells in a population are often somewhat different from each other. Measurements made on bulk cell populations do not capture the inherent heterogeneity of the cell population, and important insights can be missed. This talk will cover some technical challenges in analyzing individual cells, and present our recent progress in acquiring genome and transcriptome information from single microbial and mammalian cells, with a special emphasis on human adult neurons.



ABOUT THE SPEAKER

Kun Zhang, Ph.D.
Associate Professor,
Bioengineering
University of California, San Diego

Dr. Kun Zhang is an associate professor of bioengineering at the University of California at San Diego. After obtaining his Ph.D. in human and molecular genetics from the University of Texas at Houston/MD Anderson Cancer Center, he received his post-doctoral training with George Church at Harvard Medical School. He joined the faculty of the UCSD Department of Bioengineering in 2007. His group is currently developing genome technologies based on single-molecule sequencing, single-cell manipulation/amplification, and chip-based synthesis and manipulation of complex DNA libraries. They are applying these novel technologies to the analyses of stem cells and the human brain. Dr. Zhang is leading one of the three single cell genomics centers on the mapping of human brain gene activities under the NIH Roadmap program.

Monday, November 16, 2015
3 pm, 310 Kelly Hall



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