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A Department of the College of Engineering & School of Medicine

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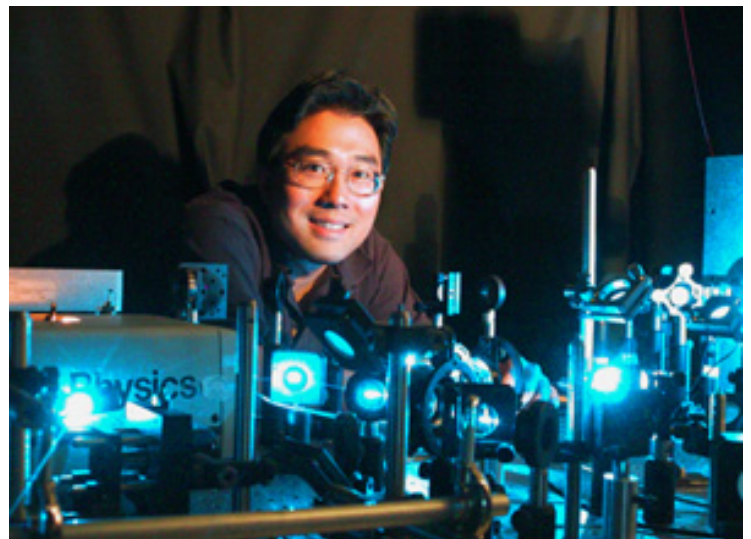
Physical Tools for Probing Biological Complexity at the Single-Cell level

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This presentation describes some of the techniques that we have developed over the past years to study biological complexity at the single-cell level. The ability to perform highly parallel yet sensitive and quantitative single cell measurements is anticipated to find broad applications in the area of digital biology, the high information-content analysis of individual biological units for arriving at a systems level understanding of biological function and phenotypic traits.

Daniel T. Chiu is currently a Professor of Chemistry at the University of Washington, Seattle. He obtained a B.A. in Neurobiology and a B.S. in Chemistry from the University of California at Berkeley in 1993, then a Ph.D in Chemistry from Stanford University in 1998. After completing postdoctoral research at Harvard University, he started in the Fall of 2000 as an Assistant Professor of Chemistry at the University of Washington. He moved through the ranks from Assistant Professor, to Associate Professor, then to Professor in 2006. He is currently a member of the Center for Nanotechnology and the Neurobiology and Behavior Program at the University of Washington as well as a member of the Fred Hutch Cancer Consortium. Professor Chiu has published over 120 papers and holds over 25 patents. He has won numerous awards, including the Keck Distinguished Young Scholars Award, the McKnight Technological Innovations in Neuroscience Award, the American Chemical Society National Fresenius Award, and the Pittcon Achievement Award.



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