



QBiC SEMINAR

Speaker

Katsuyuki Shiroguchi, Ph.D.

Lab for Quantitative Omics, RIKEN Center for Integrative Medical Sciences (IMS)

Date & Location

Wednesday, October 14, 2015
13:30 - 14:30

QBiC Bldg. A, 1F lounge
(6-2-3, Furuedai, Suita, Osaka)

*There will be a video broadcast in Kobe CDB Seminar Room A2F

Title

A study of higher biological organization by system-wide measurements of their components

Abstract

Distributions of the number of molecules or cells in biological systems obtained by system-wide measurements may determine their state of higher biological organization—from cells and tissues up to organisms. In order to measure these distributions, we have been developing both a sequencing-based molecular barcoding method which enables digital counting of RNA molecules genome-wide, as well as an automatic cellular barcoding method for counting many cells simultaneously with single cell resolution. I will present these studies and discuss the potential of these omics or system-wide approaches in biological research.

Host

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RIKEN QUANTITATIVE BIOLOGY CENTER (QBiC)