

LIFE SCIENCES

seminar series

Sunney Xie

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Life at the Single Molecule Level: Single Cell Genomics

Mendel Lecture

April 2, 2015

Thursday, 15:00 – 16:00

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Telecast

Seminar room 114, pavilion A11

University campus Bohunice

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Current research of the Xie group focuses on single-molecule enzymology, protein conformational dynamics, and the study of gene expression and regulation in living cells. His group also pioneered CARS microscopy and stimulated Raman scattering microscopy, sensitive biomedical imaging techniques that allow 3D imaging of live cells and organisms based on vibrational spectroscopy. In addition, his group have led the developments of single-cell whole genome amplification for single cell genomics. His honors include the Harrison Howe Award, Biophysical Society Founders Award, E.O. Lawrence Award in Chemistry, Leibinger Innovation Prize, the NIH Director's Pioneer Award, the Sackler Prize for Physical Sciences. Xie is a fellow of the American Academy of Arts and Sciences and a member of the National Academy of Sciences.



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