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Microscopy TODAY

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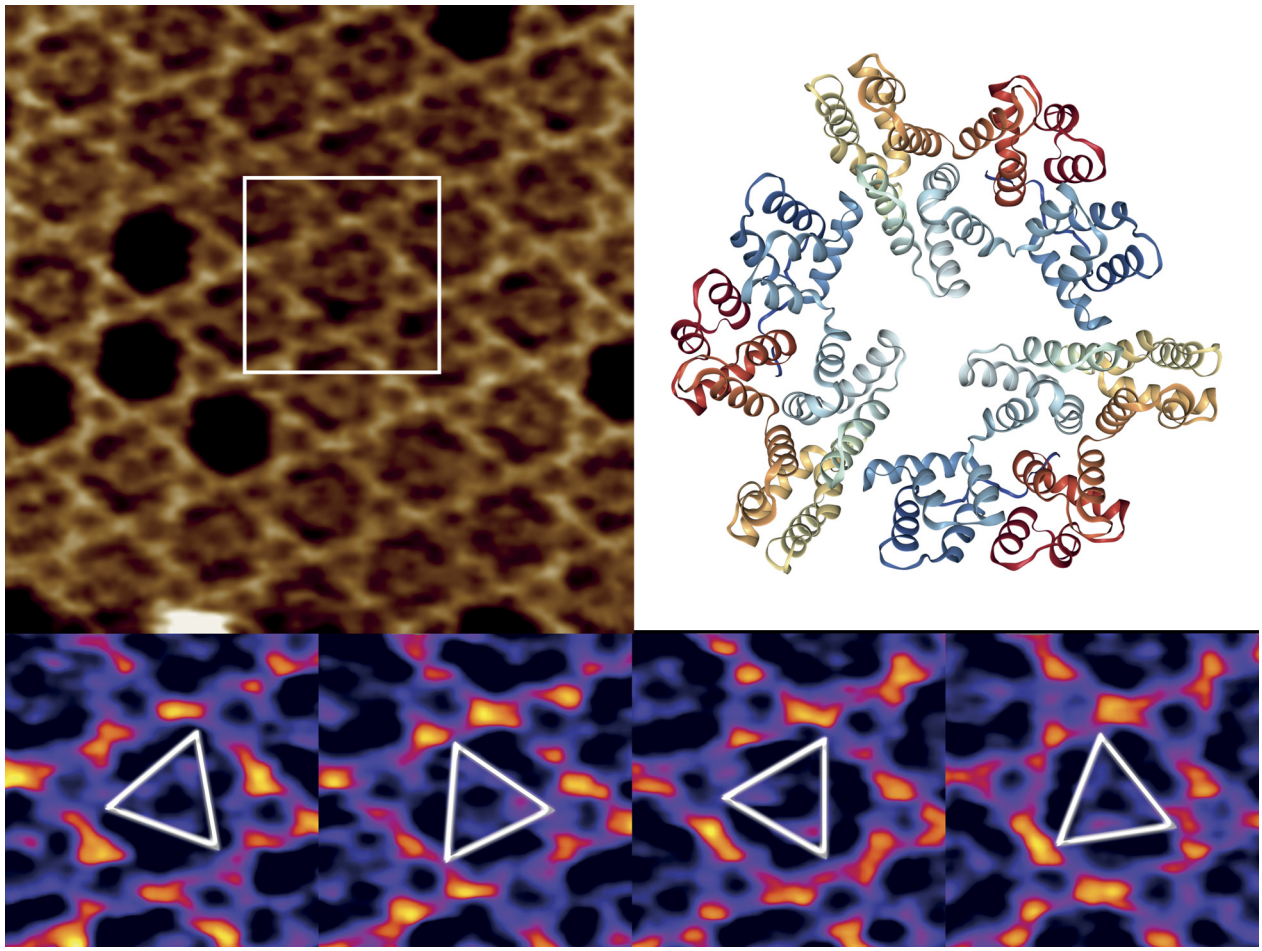

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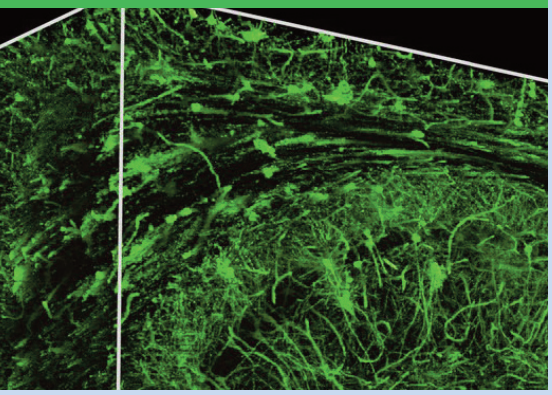
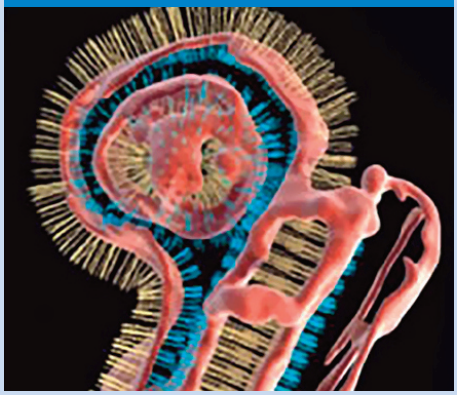


Micro-Optical Sectioning Tomography to Obtain a High-Resolution Atlas of the Mouse Brain Anan Li, Hui Gong, Bin Zhang, Qingdi Wang, Cheng Yan, Jingpeng Wu, Qian Liu, Shaoqun Zeng, Qingming Luo

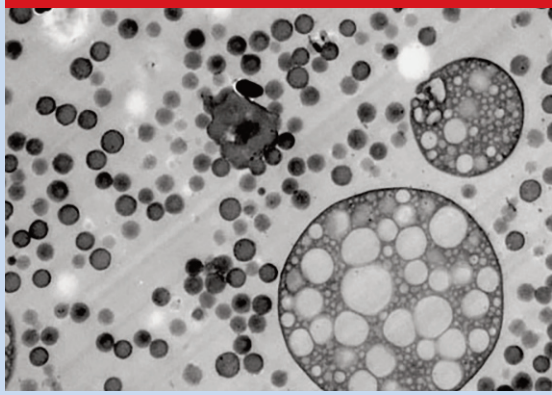
Britton Chance Center for Biomedical Photonics, Wuhan National Laboratory for Optoelectronics–Huazhong University of Science and Technology, Wuhan 430074, P. R. China.

CRYO



A single slice of a tomogram of an aldehyde fixed and sucrose infiltrated cryosection with a 3D reconstruction. Erik Bos and Peter J. Peters, Netherlands Cancer Institute, Amsterdam. (see: J. Lefman, P. Zhang, T. Hirai, RM. Weis, J. Juliani, D. Bliss, M. Kessel, E. Bos, P.J. Peters, S. Subramaniam: Three-dimensional electron microscopic imaging of membrane invaginations in Echerichia coli overproducing the chemotaxis receptor Tsr. J. Bacteriol. 2004 Aug; 186(15): 5052-61.)

MATERIALS



ABS, stained with OsO_4, sectioned at room temperature with the ultra sonic knife, section thickness 50nm. Note the almost perfect spherical shape of the large rubber particles and the preservation of the inclusions inside. Also the smaller dense rubber particles are well preserved. B.Vastenhout, Dow Benelux N.V. Terneuzen, The Netherlands.

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Volume 30 Number 3 2022 May
Microscopy TODAY

Contents

Equipment Development

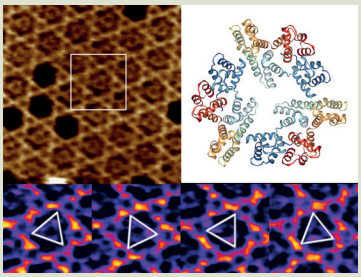
Education and Outreach

Pioneers

Highlights from *Microscopy and Microanalysis*

Departments

About the Cover



High-speed atomic force microscopy images and 3D view of an A5 P6 honeycomb lattice. For further information please see the article by Stamov et al. on page 10.

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Represented data: EELS of h-Boron Nitride spectrum at 60 keV, 105 pA, 100 s exposure, collected with DECTRIS ELA ®. Courtesy of NION Co