

LS-4. Structure of macromolecules and macromolecular assemblies

8 September, 17:00 - 19:00 / 9 September, 16:30 - 18:30

LS-4-P-1453

Atomic force microscopy investigation of amyloid fibril formation of Escherichia coli RNA polymerase $\sigma(70)$ subunit

Presenting author: **Dubrovin E. V.**

Authors: Dubrovin E. V., Koroleva O. N., Khodak Y. A., Kuzmina N. V., Yaminsky I. V., Drutsa V. L.

LS-4-P-1454

AFM study of DNA self-organization on molecular nanopatterns on graphite

Presenting author: **Dubrovin E. V.**

Authors: Dubrovin E. V., Kuzmina N. V., Yaminsky I. V.

LS-4-P-1465

Single Particle Cryo-EM of the Archaeal Flagellum

Presenting author: **D'Imprima E.**

Authors: D'Imprima E., Neiner T., Banerjee A., Tripp P., Mills D. J., Albers S. V., Vonck J.

LS-4-P-1489

Single particle electron microscopy of prokaryotic ATP synthases

Presenting author: **Allegretti M.**

Authors: Allegretti M., Mills D. J., Mayer F., Cossio P., Peng G., Hummer G., Mueller V., Vonck J.

LS-4-P-1595

Assembly and molecular architecture of PI4K II α complexes

Presenting author: **Peterek M.**

Authors: Peterek M., Bouřa E., Němeček D.

LS-4-P-1597

Assembly and Molecular Architecture of the TSC1-TSC2 Complex

Presenting author: **Guha D.**

Authors: Guha D., Nellist M., Plitzko J. M., Nemecek D.,

LS-4-P-1671

Electron-cryomicroscopy of macromolecular complexes using a direct electron detector

Presenting author: **Mills D. J.**

Authors: Mills D. J., Allegretti M., Vonck J.

LS-4-P-1746

Electron Microscopy Studies on the Pore-Forming Toxin

Presenting author: **Ganash M. A.**

Authors: GANASH M. A.

LS-4-P-1927

Electron microscopy and single-particle 3D reconstruction of negatively stained 60-160 kDa proteins provides valuable structural information at moderate resolution.

Presenting author: **Ryazantsev S.**

Authors: Ryazantsev S.

LS-4-P-1934

An epigenetic metabolic small molecule, O-acetyl-ADP-ribose, modulates the SIR-nucleosomes pre-heterochromatin

Presenting author: **Liou G. G.**

Authors: Tung S. Y., Tsai H. C., Tsai S. P., Lee S. P., Shen H. H., Liou G. G.,

LS-4-P-1936

Structure of native oligomeric Sprouty2 and its property of electroconductivity

Presenting author: **Chen F. J.**

Authors: Chen F. J., Lai C. C., Lee K. W., Liou G. G.,

LS-4-P-1981

Conformational changes leading to DNA delivery in T7 bacteriophage upon receptor interaction

Presenting author: **Carrascosa J. L.**

Authors: Cuervo A., González-García V., Pulido M., Chagoyen M., Arranz R., Castón J. R., Fernández J. J., García-Doval C., Valpuesta J. M., Camacho A., van Raaij M. J., Martín-Benito J., Carrascosa J. L.,

LS-4-P-2004

Three-dimensional arrangements of membrane associated E. coli polysomes

Presenting author: **Hoffmann T.**

Authors: Hoffmann T., Ortiz J. O., Antonoaia R., Hartl F. U., Baumeister W.

LS-4-P-2331

Alignment of Direct Detector Device micrographs using a local least-squares approach

Presenting author: **Carazo J.**

Authors: Abrishami V., Vargas J., Marabini R., Sorzano C., Carazo J.

LS-4-P-2332

Contrast Transfer Function (CTF) estimation benchmark

Presenting author: **Carazo J.**

Authors: Marabini R., Cuenca J., Quintana A., Sorzano C., Carazo J.

LS-4-P-2508

Ultrastructural characterization and quantification of fully de novo designed protein-only nanoparticles

Presenting author: **Rossinyol E.**

Authors: Unzueta U., Sánchez-Chardi A., Rossinyol E., Céspedes M. V., Tatkiewicz W., Ratera I., Veciana J., Mangues R., Ferrer-Miralles N., Vazquez E., Villaverde A.,

LS-4-P-2729

Three dimensional electron tomography characterization of islet amyloid polypeptide aggregates in drosophila melanogaster

Presenting author: **Xie L.**

Authors: Xie L., Gu X., Westermark G., Leifer K.

LS-4-P-2882

Three-dimensional reconstruction of the S885A mutant of the human mitochondrial Lon protease

Presenting author: **Kereïche S.**

Authors: Kereïche S., Kováčik L., Pevala V., Ambro L., Bellová J., Kutejová E., Raška I.

LS-4-P-2920

Efficient automatic detection of filaments in cellular electron tomograms based on reduced representation templates

Presenting author: **Volkman N.**

Authors: Page C., Volkman N.

LS-4-P-3117

Structural and functional characterization of Odontogenic Ameloblast-associated (ODAM) and Amelotin (AMTN) proteins

Presenting author: **Fouillen A.**

Authors: Fouillen A., Kholmogorova S., Wazen R. M., Moffatt P., Baron C., Sygusch J., Nanci A.,

LS-4-P-3188

Initial bridges between the two ribosomal subunits are formed within 9.4 milliseconds: A time-resolved cryo-EM study

Presenting author: **Shaikh T. R.**

Authors: Shaikh T. R., Yassin A., Lu Z., Barnard D., Meng X., Lu T. M., Wagenknecht T., Agrawal R. K.,

LS-4-P-3332

Exploring the ultrastructure of bacterial inclusion bodies (IB) with therapeutical interest

Presenting author: **Sánchez-Chardi A.**

Authors: Sánchez-Chardi A., Seras-Franzoso J., Villaverde A.,

LS-4-P-3499

The Application of Atomic Force Microscopy to investigate drug effects on trypanosomatid mitochondrial DNA

Presenting author: **Cavalcanti D. P.**

Authors: Gonçalves C. S., Zuma A., De Souza W., Motta M. C., Cavalcanti D. P.

LS-4-P-5839

Structural Investigations of COP9 signalosome binding to Cullin-RING ligases: promiscuous interactions sharing common regulatory principles

Presenting author: **Goldie K. N.**

Authors: Cavadini S., Fischer E. S., Goldie K. N., Böhm K., Lingaraju G. M., Bunker R. D., Pantelic R. S., Mohamed W. I., Stahlberg H., Thomä N. H.

LS-4-P-5998

Single particle analysis of molecular architecture of DNA replication fork complex and switching mechanism of replication factors

Presenting author: **Mayanagi K.**

Authors: Mayanagi K., Kiyonari S., Nishida H., Ishino S., Fujikane R., Saito M., Kohda D., Ishino Y., Shirai T., Morikawa K.

LS-4-P-6052

Structural studies on phosphorylase kinase using cryo-electron microscopy

Presenting author: **Li Z.**

Authors: Li Z., Nadeau O. W., Schenk A., Walz T., Carlson G. M., Venien-Bryan C.