

LS-6. Microbiology and virology

10 September, 16:45 - 18:45 / 11 September, 16:30 - 18:30

LS-6-P-1434

The mechanism of bactericidal action of sodium hypochlorite against *Staphylococcus aureus*

Presenting author: **Ujimine S.**

Authors: Ujimine S., Tone S., Saito M., Yamada S.,

LS-6-P-1540

The taxonomic and phylogenetic studies on *Pucciniastrum* and related genera

Presenting author: **Yang T.**

Authors: Yang T., Tian C. M., Liang Y. M., You C. J.

LS-6-P-1546

A Deep-Sea Microorganism and the Origin of the Eukaryotic Cell

Presenting author: **Yamaguchi M.**

Authors: Yamaguchi M., Worman C. O., Mori Y., Furukawa H., Yamamoto Y., Higuchi K., Arai S., Murata K., Kawamoto S.

LS-6-P-1547

Super Support Film for High-Resolution Electron Microscopy

Presenting author: **Yamaguchi M.**

Authors: Yamaguchi M., Maruta S.

LS-6-P-1557

Initial Structural Analysis of Frog Virus 3 by Electron Microscopy and Tomography Shows Composition and Morphology of its Large Virion with Inner Membrane

Presenting author: **Nemecek D.**

Authors: Nemecek D., Vesely T., Plevka P., Plitzko J. M.

LS-6-P-1888

Evaluation of urinary catheter surfaces on *Proteus mirabilis* biofilm formation by SEM and EDS

Presenting author: **Villar S.**

Authors: Villar S., Scavone P., Iribarnegaray V., Zunino P.

LS-6-P-2131

Viability and surface properties of the solvent-resistant *Rhodococcus ruber* IEGM 231

Presenting author: **Korshunova I. O.**

Authors: Korshunova I. O., Kuyukina M. S., Ivshina I. B.

LS-6-P-2141

HSV-1 amplicon vectors mediate production of Rotavirus-like particles in transduced cells

Presenting author: **Laimbacher A. S.**

Authors: Laimbacher A. S., Meier A. F., Schraner E. M., Tobler K., Fraefel C., Wild P., Ackermann M.

LS-6-P-2204

Interactions of Mouse polyomavirus structural proteins with host cell structures

Presenting author: **Hornikova L.**

Authors: Hornikova L., Fraiberk M., Forstova J.

LS-6-P-2223

An investigation into the association of African horse sickness virus protein VP7 with host trafficking pathways and the role of trimer-trimer interactions in VP7 crystalline particle formation

Presenting author: **Bekker S. M.**

Authors: Bekker S. M., Huismans H., van Staden V.

LS-6-P-2271

Programmed cell death as a mechanism for controlling bacterial communities in aquatic ecosystems

Presenting author: **Silva T. P.**

Authors: Silva T. P., Gamalier J. P., Zarantonello V., Roland F., Melo R. C.

LS-6-P-2329

Characterising the effect of top domain modifications on the self-assembly and particle formation of major core protein VP7 of African horse sickness virus

Presenting author: **Wall G. V.**

Authors: Wall G. V., van der Merwe C. F., Hall A. N., Huismans H., van Staden V.

LS-6-P-2336

Assembly of Mouse polyomavirus virions is accompanied by disruption of PML nuclear bodies

Presenting author: **Zila V.**

Authors: Zila V., Ryabchenko B., Abrahamyan L., Forstova J.

LS-6-P-2462

Can transmission electron microscopy help in study of bacteria-phage interaction?

Presenting author: **Tusek Znidaric M.**

Authors: Tusek Znidaric M., Naglic T., Ravnikar M., Peterka M., Dreo T.

LS-6-P-2494

AFM identification of single biomolecules using gold and carbonic nanosized immunolabels

Presenting author: **Nikiyan H. N.**

Authors: Nikiyan H. N., Davydova O. K., Tatlybaeva E. B.

LS-6-P-2579

Plasmodium falciparum invasion of human erythrocyte, a multi-tools story.

Presenting author: **Hanssen E.**

Authors: Hanssen E., Dekiwadia C., Baum J., Ralph S.

LS-6-P-2708

Correlative Microscopy of a Metal Accumulating Biofilm

Presenting author: **Adlassnig W.**

Authors: Steinacher R., Adlassnig W., Sassmann S., Reipert S., Puschenreiter M., Lang I., Lichtscheidl I. K.

LS-6-P-2753

Application Perspectives of Localization Microscopy in Virology

Presenting author: **Cremer C.**

Authors: Cremer C., Kaufmann R., Gunkel M., Polanski F., Mueller P., Dierkes R., Degenhard S., Wege C., Hausmann M., Birk U.,

LS-6-P-2771

Interaction of Tick-borne encephalitis virus with human neural cells

Presenting author: **Bílý T.**

Authors: Bílý T., Vancová M., Palus M., Růžek D., Nebesářová J., Grubhoffer L.

LS-6-P-2841

Cryo-electron tomography of the novel Pseudomonas “STACK” structure on vitreous sections and whole plunge-frozen bacteria

Presenting author: **Lopez-Iglesias C.**

Authors: Delgado L., Martinez G., Mercade E., Lopez-Iglesias C.

LS-6-P-2897

Comparison of freeze fracture images of mixed bacterial/yeast biofilm in cryo-SEM with high pressure freezing fixation

Presenting author: **Hrubanova K.**

Authors: Hrubanova K., Nebesarova J., Ruzicka F., Krzyzanek V.

LS-6-P-3008

DIAGNOSIS OF VIRAL DISEASES IN FARMED ANIMALS AND WILDLIFE USING TRANSMISSION ELECTRON MICROSCOPY

Presenting author: **Cooley W. A.**

Authors: COOLEY W. A., EVEREST D. J.

LS-6-P-3050

Genome packaging in EL and Lin68, two giant phiKZ-like bacteriophages of *P. aeruginosa*

Presenting author: **Sokolova O. S.**

Authors: Sokolova O. S., Shaburova O. V., Sedov A., Pechnikova E. V., Krylov V. N.

LS-6-P-3054

Killing bad bugs by photodynamic treatment within seconds and observing photo-induced morphological changes by TEM

Presenting author: **Schroeder J.**

Authors: Gollmer A., Maisch T., Eichner A., Baeumler W., Schroeder J.

LS-6-P-3079

Ultrastructure of dormant and germinating Bacillus spores studied by using conventional and various cryo preparation methods

Presenting author: **Laue M.**

Authors: Dittmann C., Han H., Schertel A., Laue M.

LS-6-P-3125

Electron microscopy computation and stereometrical characterization of bioorganic compounds

Presenting author: **Hovnanyan K. O.**

Authors: Hovnanyan K. O., Sargsyan K. A., Hovnanyan N. L.

LS-6-P-3135

Morphological study of Legionella pneumophyla sg 1.

Presenting author: **Kolenc M.**

Authors: Kolenc M., Keše D., Kogoj R., Steyer A., Šest I., Poljšak-Prijatelj M.

LS-6-P-3183

Differential targeting of measles virus antibodies to measles protein using immunogold labelling methods

Presenting author: **Choi K.**

Authors: Choi K., Kim Y., Kim A., Kim K., Hong K.

LS-6-P-3244

Ultrastructural changes and death in cultured aquatic bacteria induced by ultraviolet radiation

Presenting author: **Gamalier J. P.**

Authors: Gamalier J. P., Silva T. P., Zarantonello V., Dias F. F., Vidal L. O., Roland F., Melo R. C.

LS-6-P-3390

Biocorrosion and Microscopy

Presenting author: **Zapata Peñasco I.**

Authors: Zapata Peñasco I., Garibay Febles V., Mendez Mendez J., Mendoza Perez J., Piña Angeles J.

LS-6-P-3478

Automated multi-scale image acquisition for efficient particle detection and analysis using the mini-TEM

Presenting author: **Sintorn I.**

Authors: Sintorn I., Kylberg G., Nordström R., Stepan P., Kolarik V., Drsticka M., Coufalova E.

LS-6-P-5786

Beta- lactam antibiotics stimulate biofilm formation in non-typeable Haemophilus influenzae by up-regulating carbohydrate metabolism

Presenting author: **Webster P.**

Authors: Webster P., Wu S., Gunawardana M., Baum M. M.

LS-6-P-5788

Immunolabeling bacterial biofilms

Presenting author: **Webster P.**

Authors: Webster P., Kerwin J., Wu S.

LS-6-P-5792

Microscopic analysis of Salmonella-Containing Vacuole's (SCV): isolated using a novel method by pre-labelling bacteria with nanoparticles prior to infection.

Presenting author: **Singh V.**

Authors: Singh V., Tedin K.

LS-6-P-5794

The von Willebrand Factor type A-like domains of collagen type VI exhibit antimicrobial activity

Presenting author: **Abdillahi S. M.**

Authors: Abdillahi S. M., Maaß T., Kasetty K., Baumgarten M., Walse B., Schmidtchen A., Wagener R., Mörgelin M.

LS-6-P-5806

Fine structural changes of Erwinia carotova in presence of Ag nanoparticles

Presenting author: **Zavala G.**

Authors: Zavala G., Guevara P., Morales-Luckie R. A.

LS-6-P-5913

Fluorescence amplified detection of residual bacteria in the root canal space

Presenting author: **Herzog D.**

Authors: Herzog D., Niazi S., Hirvonen L., Cook R., Koller G., Mannocci F., Foschi F., Festy F.

LS-6-P-5921

Biofilms in biomedical devices: strategies of bacteria to avoid biocides and antibiotics

Presenting author: **Reyes Ábalos A. L.**

Authors: Reyes Ábalos A. L., Villar Arias S., Scavone Guillermo P.

LS-6-P-5972

Dielectrophoresis for single-virus force spectroscopy

Presenting author: **Korneev D. V.**

Authors: Korneev D. V., Generalov V. M., Zaitsev B. N.,

LS-6-P-6010

Structural investigation of polyvalent staphylococcal bacteriophage phi812K1-420 mutant by single-particle electron microscopy

Presenting author: **Novacek J.**

Authors: Novacek J., Benesik M., Pantucek R., Plevka P.

LS-6-P-6012

Cryo-electron Microscopy of Rhinovirus Uncoating Intermediates: Geometry of Membrane Attachment and Conformation of the RNA Genome

Presenting author: **Kumar M.**

Authors: KUMAR M.

LS-6-P-6031

Novel lateral contact is essential for structural integrity of helical Barely stripe mosaic virions.

Presenting author: **Pechnikova E. V.**

Authors: Pechnikova E. V., Clare D. K., Skurat E. V., Makarov V. V., Solovyev A. G., Sokolova O. S., Orlova E. V.

LS-6-P-6070

Morphological study of antimicrobial actinomycete producing isolates from marine sediments

Presenting author: **Srivibool R.**

Authors: Srivibool R.