

ID-5. Nanoparticles: Applications and bio-safety issues

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

ID-5-P-1505

Inhalation tests of carbon nanotubes using rats

Presenting author: **Yamamoto K.**

Authors: Yamamoto K., Yoshida T., Hayashida T., Shimada M., Ogami A., Morimoto Y.

ID-5-P-1832

Specimen preparations for nano-particle counting by SEM and TEM– a combination method of inkjet and freeze-drying, and electrostatic aerosol deposition method

Presenting author: **Kumagai K.**

Authors: Kumagai K., Sakurai H., Kurokawa A.

ID-5-P-1953

Low voltage electron microscope - new tools for the measurements of nanoparticles diameters

Presenting author: **Kocová L.**

Authors: Kocová L., Bílý T., Langhans J., Nebesářová J.,

ID-5-P-2029

Development of fluorescent plasmonic nanotags for in-flow detection of rare cancer cells

Presenting author: **Boca-Farcau S.**

Authors: Boca-Farcau S., Soritau O., Chereches G., Vartic O., Virag P., Susman S., Astilean S., Ciuleanu T.

ID-5-P-2136

The use of electron microscopy in the quantification of nanoparticle dose and cellular uptake

Presenting author: **Hondow N.**

Authors: Hondow N., Brown M. R., Summers H. D., Rees P., Brydson R., Brown A.

ID-5-P-2160

Utilization of polyomavirus–based nanoparticles in cancer diagnostics and therapy

Presenting author: **Suchanova J.**

Authors: Suchanova J., Spanielova H., Sacha P., Forstova J.

ID-5-P-2333

Scanning electron microscopy of silver and gold nanoparticles produced by microorganisms

Presenting author: **Kazanskiy P. R.**

Authors: Kalabegishvili T. L., Kirkesali E. I., Frontasyeva M. V., Zinicovscaia I., Kazanskiy P. R., Dmitrieva T. G.

ID-5-P-2475

The detection of metal-based particles on the bumble-bees as bioindicators of air pollution

Presenting author: **Dědková K.**

Authors: Dědková K., Kašparová B., Kukutschová J.

ID-5-P-2537

Gold Nanorods with Polymers for drug delivery : Imaging the Soft/Hard Materials Interface

Presenting author: **Bell D. C.**

Authors: Bell D. C., Timko B. P., Erdman N.

ID-5-P-2854

Magnetic-Fluid-Loaded Liposomes for Selective Targeting of Brain Tumors.

Presenting author: **Trichet M.**

Authors: Marie H., Lemaire L., Franconi F., Trichet M., Frébourg G., Nicolas V., Ménager C., Lesieur S.

ID-5-P-3114

The anticancer activity of binuclear Mn complex, [Mn₂(bipy)₂(C₆H₅)₂CHCO₂)₃(CH₃O)](ClO₄)],- SLNs formulation

Presenting author: **Güney G.**

Authors: Güney G., Çeçener G., Dikmen G., Kani I., Egeli U., Tunca B.

ID-5-P-3157

Endocytic pathways involved in polystyrene nanoparticle uptake in human gastric adenocarcinoma cells

Presenting author: **Valiante S.**

Authors: Forte M., Iachetta G., De Falco M., Laforgia V., Valiante S.

ID-5-P-3229

A cell-penetrating peptide as a tool for delivery to blood brain barrier (BBB)

Presenting author: **Iachetta G.**

Authors: Iachetta G., Forte M., Falanga A., Galdiero S., Valiante S.

ID-5-P-3285

The role of TEM in the systematic investigation of the physicochemical factors that contribute to the toxicity of ZnO nanoparticles

Presenting author: **Brown A. P.**

Authors: Mu Q., David C. A., Galceran J., Rey-Castro C., Krzemiński Ł., Wallace R., Bamiduro F., Milne S. J., Hondow N., Brydson R., Vizcay-Barrena G., Routledge M. N., Jeuken L. J., Brown A. P.

ID-5-P-5700

CHARACTERIZATION OF SPIRULINA (Arthrospira maxima) NANOPARTICLES BY MICROSCOPY AND SPECTROSCOPY TECHNIQUES

Presenting author: **Cárdenas S.**

Authors: NERI E., CHANONA J., CÁRDENAS S., PALACIOS E., CALDERÓN H., CHAMORRO G., CALDERÓN G.

ID-5-P-5733

Nitrogen-vacancy centers in nanodiamond for cellular sensing

Presenting author: **Gulka M.**

Authors: Gulka M., Hrubý J., Petráková V., Remeš Z., Nesládek M.

ID-5-P-5739

Contribution of Surface Nanostructures to DNA Hybridization Efficiency

Presenting author: **Kim H.**

Authors: Kim H., Terazono H., Takei H., Yasuda K.

ID-5-P-5762

Carbon dot and photosensitizer composites for two-photon photodynamic cancer therapy

Presenting author: **Chen J.**

Authors: Chen J.

ID-5-P-5838

mApoE-functionalized nanoliposomes delivering doxorubicin to glioblastoma cells characterized by TEM and confocal microscopy

Presenting author: **Rodighiero S.**

Authors: Rodighiero S., Gregori M., Francolini M., Tamborini M., Masserini M., Matteoli M., Passoni L.

ID-5-P-6001

IMAGING OF CELLS LABELLED BY UPCONVERTING NANOPARTICLES ON A MODIFIED FLUORESCENCE MICROSCOPE

Presenting author: **Mrázek J.**

Authors: Mrázek J., Matuška V., Pospíšilová M., Kettou S., Vránová J., Velebný V.

ID-5-P-6040

Engineered silver nanoparticles in *Pseudokirchneriella subcapitata*

Presenting author: **Jensen L. S.**

Authors: Jensen L. S., Sørensen S. N., Hartmann N. B., Baun A., Fleck R. A.

ID-5-P-6061

Three-dimensional microscopic analysis of SERS-active substrates for ultrasensitive detection of biologically significant compounds

Presenting author: **Štolcová L.**

Authors: Štolcová L., Ižák T., Petrevec M., Svoboda M., Proška J., Procházka M., Kromka A.