

## [ID-1. Correlative microscopy in life and material sciences](#)

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

### **ID-1-P-1469**

#### **Morphology and protein composition of porcine erythrocyte ghosts altered by different buffers**

Presenting author: **Kostić I. T.**

*Authors: Kostić I. T., Bukara K. M., Ilić V. L., Veljović Đ. N., Bugarski B. M.*

### **ID-1-P-1470**

#### **Preparation of erythrocyte ghosts from slaughterhouse blood for AFM observation**

Presenting author: **Kostić I. T.**

*Authors: Kostić I. T., Bukara K. M., Ilić V. L., Ralević U. M., Bugarski B. M.*

### **ID-1-P-1854**

#### **From millimetres to microns with large area EDS mapping on biological samples**

Presenting author: **Collins C. L.**

*Authors: Collins C. L., McCarthy C., Rowlands N.*

### **ID-1-P-1955**

#### **Workflow for correlative light and electron microscopy**

Presenting author: **Hosogi N.**

*Authors: Hosogi N., Nishioka H.*

### **ID-1-P-1979**

#### **Correlative microscopy characterization of the interaction of magnetic nanoparticles with breast cancer cells by Soft X-ray tomography, epi-fluorescent optical and transmission electron microscopy.**

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

*Authors: Chiappi M., Chichón F. J., Conesa J. J., Pereiro E., Rodríguez M. J., Carrascosa J. L.,*

### **ID-1-P-2033**

#### **SIMS Based Correlative Microscopy for High-Resolution High-Sensitivity Nano-Analytics**

Presenting author: **Eswara Moorthy S.**

*Authors: Wirtz T., Dowsett D., Eswara Moorthy S., Fleming Y.*

### **ID-1-P-2484**

#### **Correlative Microscopy for DualBeam™ FIB-SEM Characterization and Sample Preparation using MAPSTM**

Presenting author: **Van Leer B.**

*Authors: Van Leer B., Passey R.*

**ID-1-P-2614**

**Correlative studies on Atom Probe Tomography specimens**

Presenting author: **Hernández-Maldonado D.**

*Authors: Hernández-Maldonado D., Lefebvre W., Rigutti L., Blum I., Shinde D.*

**ID-1-P-2666**

**Biosynthesis of metallic particles and their application in material science**

Presenting author: **Avalos-Borja M.**

*Authors: Avalos-Borja M., Quester K., Vilchis-Nestor A. R., Castro-Longoria E.*

**ID-1-P-2810**

**Correlative tomography: multiscale and multimodal 3D imaging of a specific volume of interest**

Presenting author: **Burnett T. L.**

*Authors: Burnett T. L., Geurts R., McDonald S. A., Gholinia A., Slater T., Jazeri H., Northover S. M., Engelberg D. L., Haigh S. J., Bouchard P. J., Thompson G. E., Withers P. J.,*

**ID-1-P-2828**

**Correlative Microscopy for Luminescent Pigments**

Presenting author: **Trottmann M.**

*Authors: Trottmann M., Brunko O., Songhak Y., Pokrant S.*

**ID-1-P-2832**

**Correlative light and electron microscopy in the classroom – simple protocols for undergraduate courses**

Presenting author: **Kurth T.**

*Authors: Kretschmar S., Kurth T.*

**ID-1-P-2860**

**Integrated light and electron microscopy of ultrathin resin sections containing GFP**

Presenting author: **Yakushevskaya A.**

*Authors: Yakushevskaya A., van Driel L., Collinson L. M.*

**ID-1-P-2908**

**Illuminating Correlative Research using Light, X-ray and Electron Microscopy**

Presenting author: **Merkle A. P.**

*Authors: Merkle A. P., Gelb J., Lechner L., Schulmeyer I., Orchowski A., Fuchs J.*

**ID-1-P-2918**

**Shape tuning biosynthesis of gold nanoparticles: Structural Characterization**

Presenting author: **Vilchis-Nestor A. R.**

*Authors: Vilchis-Nestor A. R., Silva-de-Hoyos L. E., Sánchez-Mendieta V., Avalos-Borja M.,*

**ID-1-P-2967**

**CLEM: the use of thawed cryosections and multiple labeling strategies**

Presenting author: **Vancová M.**

*Authors: Vancová M., Vaněček J., Wandrol P., Nebesářová J.,*

**ID-1-P-3044**

**Positional correlative anatomy of invertebrate models organisms increases efficiency of TEM data production**

Presenting author: **Kolotuev I.**

*Authors: Kolotuev I.*

**ID-1-P-3094**

**Plasmon coupling in gold and silver nanosphere dimers probed by electrons**

Presenting author: **Kadkhodazadeh S.**

*Authors: Kadkhodazadeh S.*

**ID-1-P-3104**

**SCANNING ELECTRON MICROSCOPY OF LIVE-CELLS ENABLED BY IN-SITU FLUORESCENCE MICROSCOPY**

Presenting author: **Hoogenboom J. P.**

*Authors: Liv N., van Oosten Slingeland D. S., Baudoin J. P., Kruit P., Piston D. W., Hoogenboom J. P.*

**ID-1-P-3172**

**Integrated Raman microscope with FIB-SEM**

Presenting author: **Timmermans F. J.**

*Authors: Timmermans F. J., Lenferink A. T., Wolferen H. A., Otto C.*

**ID-1-P-3234**

**Great news for integrated CLEM**

Presenting author: **Voortman L. M.**

*Authors: Voortman L. M., Haring M. T., Effting A. P.*

**ID-1-P-3247**

**Correlative Light and Electron Microscopy – on the way from 2D towards 3D**

Presenting author: **Elli A. F.**

*Authors: Elli A. F., Hummel E., Boeker C.*

**ID-1-P-3298**

**Deciphering the ultrastructural organization of endo-melanosomal network of pigment cells in temporal and spatial high resolution by Correlative Light and Electron Microscopy.**

Presenting author: **Heiligenstein X.**

*Authors: Heiligenstein X., Delevoye C., Hurbain I., Van Niel G., Salamero J., Raposo G.*

**ID-1-P-3311**

**Searching for a single preparation to simplify comparative imaging studies involving SEM, Confocal Microscopy and Micro-CT of biological materials**

Presenting author: **Summerfield R. A.**

*Authors: Summerfield R. A., Sykes D., Ball A. D., Goral T.*

**ID-1-P-3321**

**Ultrastructural alterations in placenta in relation to pesticide exposure during pregnancy and delivery of low birth weight baby**

Presenting author: **Jain A. K.**

*Authors: Kumar S. N., Bastia B., Sharma S. K., Borgohain D., Raisuddin S., Jain A. K.*

#### **ID-1-P-3360**

### **Correlative scanning electron and confocal microscopy using an optical transparent thin coating of indium tin oxide (ITO)**

Presenting author: **Falqui A.**

*Authors: Falqui A., Rodighiero S., Sogne E., Marotta R., Francolini M., Ruffilli R., Cagnoli C., Casu A., Genovese A.*

#### **ID-1-P-3367**

### **Correlative in-situ microscopy in materials and life science: Bringing Raman spectroscopy into the SEM**

Presenting author: **Hoffmann B.**

*Authors: Hoffmann B., Sarau G., Heilmann M., Latzel M., Haničinec M., Jiruše J., Christiansen S.,*

#### **ID-1-P-3381**

### **The removal of fluoride from the aqueous solutions using calcium-based minerals**

Presenting author: **Kim I. W.**

*Authors: Kim I. W., Yang T., Lee S. S., Jho J. Y.*

#### **ID-1-P-3389**

### **Modern methods of correlative light-electron microscopy and their compatibility with modern methods of the three-dimensional electron microscopy**

Presenting author: **Mironov A. A.**

*Authors: Mironov A. A., Beznoussenko G. V.*

#### **ID-1-P-3452**

### **Correlative 3D imaging of bat penis micromorphology - validating quantitative microCT images with undecalcified serial ground section histomorphology**

Presenting author: **Herdina A. N.**

*Authors: Herdina A. N., Plenk Jr H., Metscher B. D.*

#### **ID-1-P-3476**

### **Confocal and electron microscopy for evaluation of delignification kinetics of Agave fibers by using green technology**

Presenting author: **Chanona Pérez J. J.**

*Authors: Hernández Hernández H. M., Chanona Pérez J. J., Terrés E., Vega A., Ligeró P., Calderón Domínguez G., Mendoza Pérez J. A.*

#### **ID-1-P-3514**

### **Characterization of hESC surface receptors using correlative fluorescence and electron microscopy**

Presenting author: **Košťál V.**

*Authors: Jaroš J., Košťál V., Hampl A.*

#### **ID-1-P-5720**

### **FIB/SEM and correlative ArraySEM - NanoSIMS study on toxic internalization of hemoglobin by endothelial cells**

Presenting author: **Bittermann A. G.**

*Authors: Bittermann A. G., Schaer D., Ehrke H. U., Hillion F., Wepf R.*

**ID-1-P-5872**

**Using subcellular spatial alignment for live-cell CLEM to investigate mitochondrial degradation**

Presenting author: **Ramm G.**

*Authors: Padman B. S., Bach M., Ramm G.*

**ID-1-P-5879**

**Super-Resolution Microscopy Using Standard Fluorescent Proteins in Intact Cells under Cryo-Conditions**

Presenting author: **Kaufmann R.**

*Authors: Kaufmann R., Schellenberger P., Seiradake E., Dobbie I. M., Jones E. Y., Davis I., Hagen C., Grühewald K.*

**ID-1-P-6023**

**Correlative Automated Particle Analysis – A New Way to Link LM and SEM/EDX in an Automated Workflow.**

Presenting author: **Berger C.**

*Authors: Hiltl M., Berger C.*