

## [LS-1. Live imaging of cells, tissues and organs](#)

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

### **LS-1-P-1402**

#### **Thrombus Development Processes are dependent on Endothelial Injuries: Visualized by In vivo Two-photon Molecular Imaging**

Presenting author: **Nishimura S.**

*Authors: Nishimura S.*

### **LS-1-P-1403**

#### **Artery Cell Contraction via ROS and NO Balance Examined by In Vivo Multi-photon Imaging Technique**

Presenting author: **Nishimura S.**

*Authors: Nishimura S.*

### **LS-1-P-1404**

#### **Protective effect of Derris reticulata extract against alloxan-induced cell death in pancreatic RINm5F cells**

Presenting author: **Chudapongse N.**

*Authors: Chudapongse N., Kumkrai P.*

### **LS-1-P-1485**

#### **Systemic Sclerosis: a pathological model linking ROS overproduction to DNA damage and fibrosis.**

Presenting author: **Spadoni T.**

*Authors: Spadoni T., Svegliati S., Gabrielli A.*

### **LS-1-P-1502**

#### **PHOTOTOXICITY OF CRAJIRU EXTRACT (*Arrabidaea chica*) INCORPORATED IN POLYMERIC NANOEMULSION AGAINST MURINE MAMMARY ADENOCARCINOMA CELLS (4T1)**

Presenting author: **Silva R. C.**

*Authors: Silva R. C., Muehlmann L. A., Longo J. F., de Azevedo R. B., Degterev I. A., Lucci C. M.*

### **LS-1-P-1729**

#### **$\alpha$ 1-Adrenergic receptors regulate Ca<sup>2+</sup> modulation of acinar cells in rat lacrimal gland**

Presenting author: **Kurosawa C.**

*Authors: Kurosawa C., Saino T., Kurosaka D., Satoh Y.*

### **LS-1-P-1763**

#### **3D mapping of tissue oxygen in chronically inflamed mouse bladder**

Presenting author: **Zhdanov A. V.**

*Authors: Zhdanov A. V., Golubeva A. V., Cryan J. F., Papkovsky D. B.*

### **LS-1-P-2273**

#### **Human myometrial telocytes: in vitro low-level laser stimulation**

Presenting author: **Cretoiu S. M.**

*Authors: Campeanu R. A., Radu B. M., Cretoiu S. M., Banciu D. D., Banciu A., Cretoiu D., Popescu L. M.,*

#### **LS-1-P-2282**

##### **Atomic force microscopy reveals differences in cell membrane properties in nuclear myosin I mutant**

Presenting author: **Venit T.**

*Authors: Venit T., Petr M., Hozák P.*

#### **LS-1-P-2402**

##### **Smooth muscle cells of testicular venules show different responses to various transmitters, when compared with smooth muscle cells of arterioles; with special reference to intracellular calcium dynamics**

Presenting author: **Sato Y.**

*Authors: Sasaki K., Hirakawa M., Saino T., Sato Y.,*

#### **LS-1-P-2478**

##### **Diagnosing Pathological Conditions of the Connective Tissue Using Atomic Force Microscopy Study of the Extracellular Matrix**

Presenting author: **Timashev P. S.**

*Authors: Timashev P. S., Kotova S. L.*

#### **LS-1-P-2775**

##### **Accurate and Fast Correlative Light and Electron Microscopy of Cells under Vacuum and Near-Native Conditions**

Presenting author: **Sueters J.**

*Authors: Sueters J., Liv N., Haring M. T., Zonneville A. C., Kruit P., Hoogenboom J. P.*

#### **LS-1-P-2776**

##### **Interaction of Escherichia coli bacteria with silica nanoparticles studied by Atomic Force Microscopy**

Presenting author: **Grauby-Heywang C.**

*Authors: Gammoudi I., Mathelié-Guinlet M., Moroté F., Grauby-Heywang C., Moynet D., Cohen-Bouhacina T.*

#### **LS-1-P-2859**

##### **Microspectroscopy monitoring of singlet oxygen in single mammalian cells**

Presenting author: **Scholz M.**

*Authors: Scholz M., Dědic R., Valenta J., Breitenbach T., Hála J.*

#### **LS-1-P-2871**

##### **3D reconstruction of live cell organelles from information entropy point of view**

Presenting author: **Romanova K.**

*Authors: Romanova K.*

#### **LS-1-P-3095**

##### **Cell wall formation in root hairs and the influence of heavy metals**

Presenting author: **Lichtscheidl I.**

*Authors: Lichtscheidl I., Rumé-Strobl J., Adlassnig W.*

#### **LS-1-P-3129**

##### **SHG Imaging as a Method for Precision Characterization of Collagen Structures in Combination with Nanoindentation**

Presenting author: **Lukes J.**

*Authors: Sepitka J., Burdikova Z., Filova E., Lukes J.*

**LS-1-P-3248**

**Metal Treatment on Physcomitrella patens Compared to two Bryophyte Species Naturally Occurring on Metal Contaminated Sites**

Presenting author: **Sassmann S.**

*Authors: Sassmann S., Weidinger M., Bock B., Antreich S., Adlassnig W., Lang I.*

**LS-1-P-3346**

**VISUALIZATION OF LIVING BLOOD CELLS - NEW OPPORTUNITIES FOR CELL DIAGNOSTICS**

Presenting author: **Vasilenko I.**

*Authors: Vasilenko I., Beljakov V., Nasirov M., Topuzoov A.*

**LS-1-P-3493**

**Visualization of hepatocytes and immune cells in the liver by intravital multiphoton microscopy**

Presenting author: **Matsumoto S.**

*Authors: Matsumoto S., Maeda S., Kikuta J., Ishii M.*

**LS-1-P-3518**

**Recovery of the plant Golgi apparatus during Brefeldin A treatment**

Presenting author: **Sedlakova Z.**

*Authors: Sedlakova Z., Hawes C.*

**LS-1-P-3523**

**Synthesis and application of new fluorescent dyes**

Presenting author: **Kozák J.**

*Authors: Kozák J., Kužmová E., Reyes-Gutiérrez P. E., Devadig P., Joshi V., Sonawane M., Talele H., Severa L., Jirásek M., Hubálková P., Hájek M., Teplý F., Cebecauer M.*

**LS-1-P-5723**

**Quantification of aortic and cutaneous elastin and collagen morphology in a mouse model of Marfan syndrome by multiphoton microscopy**

Presenting author: **Esfandiarei M.**

*Authors: Cui J. Z., Tehrani A. Y., van Breemen C., Esfandiarei M.,*

**LS-1-P-5840**

**LEUKOCYTE RECRUITMENT TO ADIPOSE TISSUE INDUCED BY EXPERIMENTAL FOOD ALLERGY IS REGULATED BY CHRONIC ALLERGEN INGESTION BY SENSITIZED MICE**

Presenting author: **Batista N. V.**

*Authors: BATISTA N. V., PEREIRA R. V., FONSECA R. C., FERREIRA A. V., CARA D. C.*

**LS-1-P-5847**

**Time-lapsed videomicroscopy in cancer biology**

Presenting author: **Kripnerová M.**

*Authors: Kripnerová M., Tuková J., Pešta M., Červinka M., Rudolf E., Hatina J.*

**LS-1-P-5852**

**Live imaging of early oral epithelium reveals epithelial migration of tooth progenitor cells**

Presenting author: **Prochazka J.**

*Authors: Prochazka J., Prochazkova M., Spoutil F., Hoch R., Shimogori T., Wittmann T., Klein O. D.,*

**LS-1-P-5865**

**Experiences of building and adapting the OpenSPIM**

Presenting author: **Fleck R. A.**

*Authors: Harris J., Stramer B., Thackery J., Schwertner M., Kamp V., Fleck R. A.*

**LS-1-P-5869**

**Enhancement of FRET AB by time resolved spectral detection**

Presenting author: **Pala J.**

*Authors: Pala J., Stixová L., Čmiel V., Provazník I.,*

**LS-1-P-5881**

**Simplified time resolved observation of cardiomyocytes by TimeGate function of hybrid detectors and pulsed white light laser**

Presenting author: **Baiazitova L.**

*Authors: Baiazitova L., Cmiel V., Pala J., Provazník I.*

**LS-1-P-5882**

**DNA repair studies in living cells**

Presenting author: **Bartova E.**

*Authors: Bartova E.*

**LS-1-P-5884**

**Multi-modal superduper chemiluminescent proteins enabling multicolor functional imaging and manipulation**

Presenting author: **Suzuki K.**

*Authors: Suzuki K., Arai Y., Nagai T.*

**LS-1-P-5955**

**Termination pattern of nanocrystalline diamond controls cell behavior**

Presenting author: **Brož A.**

*Authors: Brož A., Ukraintsev E., Babchenko O., Kromka A., Rezek B., Verdánová M., Ostrovská L., Sauerová P., Hubálek Kalbáčová M.,*

**LS-1-P-5985**

**ELECTRON MICROSCOPY AS A TOOL FOR DISSEMINATION, STUDY AND CONSERVATION OF BOTANICAL GARDEN “Xítbal neek” FROM CENTRO DE INVESTIGACION CIENTÍFICA DE YUCATÁN A.C. (CICY)**

Presenting author: **Andrade S.**

*Authors: Andrade S., Campos G., Moreno O.*

**LS-1-P-6076**

**The importance of Rapamycine usage on CD 44 and RHAMM expressions on breast cancer cell lines**

Presenting author: **Inan S.**

*Authors: Inan S., Temel M., Onal T., Oztatlici M., Cam F. S., Turkoz Uluer E., Ozbilgin K.*