



5<sup>th</sup> International Conference “Current Trends in Cancer Theranostics”  
June 30 – July 4, 2019  
Tony Resort, Trakai, Lithuania

## Conference Program

### SUNDAY (30<sup>th</sup> June)

**Venue:** Tony Resort, Trakai

Time	Event
All Day	Participants Arrival to TonyResort Hotel
18:00-19:30	Registration, Tony Resort Main Building
19:45-20:00	Meeting Point and CTCT-2018 Camp Opening
20:00-22:00	Get Together at Tony Resort Restaurant

### MONDAY (1<sup>st</sup> July)

**Venue:** Miškas Hall, Tony Resort, Trakai.

Time	Presenter	Institution	Title of the Lecture
<b>8.00-17.00 Registration, Tony Resort Main Building</b>			
<b>OPENING CEREMONY</b>			
8:50 – 8:55	<b>Aldona Beganskiene</b>	Dean of Faculty of Chemistry and Geosciences, Vilnius University, Lithuania	Welcome Address
8:55 – 9:00	<b>Sonata Jarmalaite</b>	Acting director, for Science of National Cancer Institute, Lithuania	Welcome Address
9:00 - 9:05	<b>Ricardas Rotomskis</b>	Vice Chairman, Interim Chairman of the Research Council of Lithuania, Lithuania	Welcome Address
9:05 - 9:10	<b>Vladimir Sivakov</b>	CTCT Conferences President, Leibniz Institute of Photonic Technology, Germany	Welcome Address
<b>SESSION I BIOIMAGING I</b> <b>Chairman: Vladimir Sivakov</b>			
9:10 – 9:55	<b>Andrey Kuzmin,</b> <i>Keynote</i>	SUNY, State University of New York, USA	Micro-Raman Biomolecular Component Analysis For Cancer Diagnostic



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9:55 – 10:20	<b>Alexander Bayev</b>	SUNY, State University of New York, USA	Smart Photodynamic Therapy By Reversibly Switchable Intersystem Crossing In Small Organic Molecules
10:20 – 10:45	<b>Muhammad Bashouti</b>	Ben-Gurion University, Israel	Plasmonic structures for fast detection
10:45-11:15	<b>Coffee Break</b>		
<b>SESSION 2 BIOIMAGING II</b> <b>Chairman: Johannes Rebling</b>			
11:15 – 11:40	<b>Johannes Rebling</b>	University of Zürich/ETH Zürich, Switzerland	Optoacoustic and Ultrasound Imaging of Radiation-Induced Cerebrovascular Damage
11:40 – 12:05	<b>Igor Meglinski</b>	Oulu University, Finland	Perspectives Of Laser Light In Tumor Diagnosis And Neuroimaging
12:05 – 12:30	<b>Alexander Shuster,</b> <i>Gold Sponsor</i>	Sol Instruments Ltd., Belarus	Raman Microscopy and Coherent Anti-Stokes Raman Scattering Microscopy from Sol Instruments
12:30 – 12:55	<b>Ekaterina Borisova</b>	Bulgarian Academy of Sciences, Bulgaria	Photodiagnosis Of Stress-Induced Gastrointestinal Neoplasia
13:00 – 14:30	<b>Lunch</b>		
<b>SESSION 3 BIOIMAGING III</b> <b>Chairman: Igor Meglinski</b>			
14:45 – 15:10	<b>Virginijus Barzda</b>	Department of Physics, and Department of Chemical and Physical Sciences, Canada	Nonlinear Optical Imaging for Pathology
15:10 – 15:35	<b>Arūnas Bulika,</b> <i>Platinum Sponsor</i>	“Elymus”, Lithuania	Microwave Synthesis
15:35 – 16:00	<b>Milan Kopecek,</b> <i>Gold Sponsor</i>	FujiFilm SonoSite	Multimodal Molecular Imaging in (Pre) Clinical Research
<b>SESSION 4 POSTER SESSION</b> <b>Chairman: Ricardas Rotomskis &amp; Vladimir Sivakov</b>			
16:15 – 18:30	<b>Posters and Elevator Pitch Talks</b>		
19:00 – 21:30	<b>FREE TIME</b>		
22:00 – 22:30	<b>5<sup>th</sup> CTCT Anniversary SPECIAL</b> <b>Location: TonyResort Beach</b>		



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**TUESDAY (2<sup>nd</sup> JULY)**

**Venue:** Miškas Hall, Tony Resort, Trakai.

Time	Presenter	Institution	Title of the Lecture
<b>8.30-17.00 Registration, Tony Resort Main Building</b>			
<b>SESSION 5 NANOMATERIALS &amp; THERAPY I</b>			
<b>Chairman: Sofia Dembski</b>			
9:00 – 9:45	<b>Sabrina Priel</b> , <i>Keynote</i>	University of Trieste, Italy	Self-Assembling Nanotechnology For Cancer Theranostics: From Computer-Assisted Design To In Vivo Applications
9:45 – 10:10	<b>Gregor Jung</b>	Saarland University, Germany	Dual Emissive Photoacids as Probes in Life Sciences
10:10 – 10:35	<b>Achim Aigner</b>	Leipzig University, Germany	Polymeric, Polyethylenimine-Based Nanoparticles For Therapeutic Sirna Delivery, Oncogene Knockdown And Mirna Replacement Therapy
10:35 – 11:00	<b>Vasco Bonifácio</b>	Universidade de Lisboa, Portugal	Polyurea Dendrimers: Life In A Box
11:00-11:30	<b>Coffee Break</b>		
<b>SESSION 6 NANOMATERIALS &amp; THERAPY II</b>			
<b>Chairman: Chia-Liang Cheng</b>			
11:30 – 11:55	<b>Victor Belyaev</b>	Immanuel Kant Baltic Federal University, Russia	Multifunctional Magnetic Materials For Biomedical Applications
11:55 – 12:20	<b>Shaista Ilyas</b>	Cologne University, Germany	Improved Vectorization of Anticancer Nanotherapeutics: Tumor Specific Uptake and Localization
12:20 – 12:45	<b>Egor Kaniukov</b>	Belorussian Academy of Sciences, Belarus	Problems And Possible Ways To Use One-Dimensional Magnetic Nanostructures
12:45 – 13:10	<b>Katerina Levada</b>	Immanuel Kant Baltic Federal University, Russia	Magnetic Nanoparticles As Novel Theranostic Approach
13:10 – 13:35	<b>Stanislav Pshenichnikov</b>	Immanuel Kant Baltic Federal University	The Effect Of Various Strengths Static Magnetic Field On Human Peripheral Blood Mononuclear And T-Lymphoblasts Jurkat Cells





			Viability
13:35 – 14:30	<b>Lunch</b>		
14:45 – 16:00	<b>Transfer to Vilnius Historical City</b>		
16:15 – 17:00	<b>Church Heritage Museum</b>		
17:15 – 18:15	<b>Concert in Refectory</b>		
18:15 – 20:00	<b>CTCT 5<sup>th</sup> Anniversary Gala Dinner</b>		
20:00 – 22:00	<b>Free time in Vilnius City</b>		
22:00 – 23:00	<b>Transfer to TonyResort</b>		

### WEDNESDAY (3<sup>rd</sup> JULY)

**Venue:** Miškas Hall, Tony Resort, Trakai.

Time	Presenter	Institution	Title of the Lecture
<b>8.30-17.00 Registration, Tony Resort Main Building</b>			
<b>SESSION 7 NANOMATERIALS &amp; THERAPY III</b>			
<b>Chairman: Andrey Kuzmin</b>			
9:00 – 9:25	<b>Antonio Benayas</b>	University of Aveiro, Portugal	Autofluorescence Background Removal: Different Approaches For Improving The Signal-To-Noise Ratio In In Vivo Fluorescence Imaging
9:25 – 10:10	<b>Fiorenzo Vetrone</b> , <i>Keynote</i>	University of Quebec, Canada	Upconverting Nanoparticles: The Road Towards Theranostics
10:10 – 10:35	<b>Blanka del Rosal</b>	Swinbourne University, Australia	Luminescence Thermometry: From Controlled Therapy To Early Tumor Diagnosis
<b>10:35 – 11:10</b>	<b>Coffee Break</b>		
<b>SESSION 8 NANOMATERIALS &amp; THERAPY IV</b>			
<b>Chairman: Katerina Levada</b>			
11:10 – 11:35	<b>Marija Matulionyte</b>	University of Quebec, Canada	Nd <sup>3+</sup> Doped Garnet-Type Nanoprobes For Temperature Sensing At The Nanoscale
11:35 – 12:00	<b>Ting Cheng</b>	University of Quebec, Canada	Upconverting Nanoparticles: The Road Towards Theranostics
12:00 – 12:25	<b>Artiom Skripka</b>	Institut National de la Recherche Scientifique,	Decoupled Theranostics With Rare Earth Doped Nanoparticles



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		Canada	
12:25 – 12:50	<b>Anna Borodziuk</b>	Institute of Physics, Poland	Efficient Photodynamic Therapy With Unmodified Rose Bengal Photosensitizer Connected To Upconverting Nanoparticles
<b>12:50 – 14:30</b>	<b>Lunch</b>		
<b>SESSION 8 NANOMATERIALS &amp; THERAPY V</b>			
<b>Chairman: Muhammad Bashouti</b>			
14:30 – 14:55	<b>Chia-Liang Cheng</b>	National Dong Hwa University, Taiwan	A 3D Co-Cultured Model To Evaluate The Efficiency Of Nanodiamond Facilitated Drug Delivery
14:55 – 15:20	<b>Nina Kostevšek</b>	Jožef Stefan Institute, Slovenia	Superior T <sub>2</sub> Mri Contrast Agents: Examples Of Nanoparticle And Coating Optimization
15:20 – 15:45	<b>Dominyka Dapkute</b>	National Cancer Institute, Lithuania	Hitchiking nanoparticles: prospects of stem cell use in cancer theranostics
15:45 – 16:05	<b>Sofia Dembski</b>	Fraunhofer Translational Center, Germany	Bioresorbable Sol-Gel-Derived Endless Fibers - A Novel Platform Technology In Regenerative Therapies
16:05 – 16:30	<b>Wujun Xu</b>	University of Eastern Finland, Finland	Enhanced sensitivity in LED-photoacoustic tomography with black porous silicon
18:30 – 20:00	<b>AcroYoga, Lake</b>		

**THURSDAY (4<sup>th</sup> JULY)**

**Venue:** Tony Resort, Trakai

<b>Time</b>	<b>Event</b>
10:00-11:00	Departure to Vilnius Airport



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## POSTER SESSION

Monday (1<sup>st</sup> July)

16:05 – 18:30

P 01	<u>S. N. Agafilushkina</u> , and L. A. Osminkina	SERS DETECTION OF HUMAN CHORIONIC GONADOTROPIN USING AG@AU/SINWS
P 02	S.S. Sarsembek, <u>S. Z. Azhgireyeva</u> , G. K. Mussabek, N. Zh. Omirbekova	INVESTIGATION OF THE INFLUENCE OF SILICON NANOPARTICLES ON DROSOPHILA MELANOGASTER FLIES
P 03	<u>A. Borodziuk</u> , P. Kowalik, M. Duda, R. Minikayev, T. Wojciechowski, K. Sobczak, D. Kalinowska, Ł. Kłopotowski, B. Sikora	EFFICIENT PHOTODYNAMIC THERAPY WITH UNMODIFIED ROSE BENGAL PHOTOSENSITIZER CONNECTED TO UPCONVERTING NANOPARTICLES
P 04	<u>M. Duda</u> , P. Kowalik, A. Borodziuk, T. Wojciechowski, K. Sobczak, R. Minikayev, Ł. Kłopotowski, B. Sikora	GENERATION OF REACTIVE OXYGEN SPECIES BY UPCONVERTING NANOPARTICLES DOPED WITH THULIUM IONS
P 05	<u>P. Fatehbasharзад</u> , R. Stefania, C. Carrera, I. Hawala, D. D. Castelli, S. Baroni, M. Colombo, S. Aime	IRREGULARLY SHAPED GOLD NANOPARTICLES IN MRI
P 06	<u>G. Z. Gvindzhiliia</u> , M. B. Gongalsky, K. P. Tamarov, A. V. Pavlikov, A. A. Kudryavtsev, V. Sivakov, L. A. Osminkina	BIODEGRADABLE LUMINESCENT POROUS SILICON NANOWIRES AS THERANOSTIC AGENTS
P 07	<u>G. Jarockyte</u> , V. Poderys, D. Rupsys, S. Bagdonas, V. Karabanovas, R. Rotomskis	PROTEIN-STABILIZED GOLD NANOCCLUSERS FOR CANCER THERANOSTICS
P 08	<u>M. Khorenko</u> , A. Meschkov, U. Schepers, C. Feldmann	APPLICATION OF MULTIMODAL INORGANIC-ORGANIC HYBRID NANOPARTICLES IN CANCER THERANOSTICS
P 09	<u>A. Lyskoit</u> , S. Sakirzanovas	CARBON NANODOTS SYNTHESIS AND CHARACTERIZATION OF OPTICAL PROPERTIES
P 10	<u>A. Meschkov</u> , M. Khorenko, M. Poß, V. Rein, C. Feldmann, U. Schepers	METAL-BASED INORGANIC-ORGANIC HYBRID NANOPARTICLES FOR TISSUE-TARGETED CANCER THERAPY
P 11	<u>A. T. Ospanali</u> , M. M. Khojamuratov, A. K. Kenzhegulov, G. Partizan	INVESTIGATION OF CARBON NANOFIBERS OBTAINED BY ELECTROSPINNING METHOD



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<b>P 12</b>	<b>S. Pshenichnikov, E. Shunkin, V. Malashchenko, N. Gazatova, A. Omelyanchik, L. Litvinova, V. Rodionova, E. Levada</b>	<b>THE EFFECT OF VARIOUS STRENGTHS STATIC MAGNETIC FIELD ON HUMAN PERIPHERAL BLOOD MONONUCLEAR AND T-LYMPHOBLASTS JURKAT CELLS VIABILITY</b>
<b>P 13</b>	<b>A. Sheshukova, A. Kapitunova, E. Preobrazhenskaya, O. Ozoline, S. Antipov</b>	<b>A DPS PROTEIN OF E.COLI AS A PROSPECTIVE BASIS FOR THE CREATION OF BIOMETALLIC NANOPARTICLES</b>
<b>P 14</b>	<b>E. Voronovic, G. Jarockytė, A. Skripka, V. Karabanovas, F. Vetrone, R. Rotomskis</b>	<b>INVESTIGATION OF PROTEIN CORONA FORMED ON UPCONVERTING NANOPARTICLES</b>

