



2<sup>nd</sup> International Conference "Current Trends in Cancer Theranostics"  
June 19-23, 2016  
Druskininkai, Lithuania

## CONFERENCE PROGRAMME

**Sunday (19<sup>th</sup> June)**

**Language:** English

**Venue:** Conference Hall, Hotel "Pusynas", Taikos st. 6, Druskininkai

Time	Event
17.00	Ground transportation from Vilnius Airport to Druskininkai
19.00	Arriving to Druskininkai
20.00-22.30	Registration & Welcome Reception



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**Monday (20<sup>th</sup> June)**

**Language:** English

**Venue:** Conference Hall, Hotel “Pusynas”, Taikos st. 6, Druskininkai

Time	Presenter	Institution	Title of the Lecture
8.00-9.00	Registration of the participants		
<b>Opening Ceremony</b>			
9.00-9.15	<b>Prof. Feliksas Jankevicius</b>	Director of National Cancer Institute, Lithuania	Welcome address
9.15-9.25	<b>Linas Urmanavičius</b>	Vice Mayor of Druskininkai	Welcome address
9.25-9.35	<b>Dr. Vladimir Sivakov</b>	Baltic Sea Network Coordinator, Leibniz Institute of Photonic Technology, Germany	CTCT Second Birthday
9.35-9.45	<b>Prof. Ricardas Rotomskis</b>	Program Chair, National Cancer Institute, Lithuania	Program Chair Welcome Address
9.45-10.05	<b>Giles Brandon</b>	Intelligentsia Consultants Sàrl, Luxembourg	Nanomedicine and Theranostics: An Overview of Collaborative Research Initiatives and Funding Opportunities for European Organisations
<b>Session 1 New Biomaterials for Cancer Theranostics-1</b>			
<b>Chairman:</b> Dr. Vladimir Sivakov			
10.05-10.40	<b>Prof. Chia-Liang Cheng</b> <i>Keynote</i>	National Dong Hwa University (NDHU), Taiwan	Nanodiamond for Bio-Imaging and Drug Delivery
10.40-11.00	<b>Konstantin Tamarov</b>	University of Eastern Finland, Finland	Temperature responsive porous silicon nanoparticles for local infrared and radiofrequency heat induced release of cancer drugs
<b>11.00-11.30</b>	<b>Coffee break</b>		
<b>10.45-11.45</b>	<i>Accompanying Person Program: Excursion to Health Resort Druskininkai (free of charge). Meeting Hotel Foyer.</i>		
11.30-11.50	<b>Prof. Victor Timoshenko</b>	Physics Department of M.V. Lomonosov Moscow State University, Russia	Silicon-based Nanosensitizers for Theranostics of Cancer
11.50-12.10	<b>Dr. Sébastien</b>	Institut Européen des	Solid-state nanopore for proteins and



	<b>Balme</b>	Membranes, France	amyloids detection
12.10-12.40	<b>Dr. Mikhael Bechelany</b> <i>Invited</i>	Institut Européen des Membranes, France	Engineering of bionanostructured interfaces: properties and health applications
12.40-13.00	<b>Prof. Arunas Ramanavicius</b>	Vilnius University, Lithuania	Towards Molecularly Imprinted Polymers for Cancer Diagnostics and Treatment
<b>13.00-14.30</b>	<b>Lunch</b>		
<b>Session 2 Bioimaging – New Ways in Cancer Diagnostics</b>			
<b>Chairman: Dr. Vitalijus Karabanovas</b>			
14.30-15.05	<b>Prof. Rainer Heintzmann</b> <i>Keynote</i>	Friedrich-Schiller University, Germany	Lightwedge and Lightsheet-Raman Microscopy
15.05-15.35	<b>Prof. Igor Meglinski</b> <i>Invited</i>	University of Oulu, Finland	Polarization-based imaging and diagnosis of cancer tissues and optical biopsy
15.35-16.05	<b>Prof. Karsten König</b> <i>Invited</i>	Saarland University, Germany	Clinical multiphoton tomography of skin cancer and brain tumors
16.05-16.25	<b>Prof. Virgis Barzda</b>	University of Toronto, Canada	Cancer Diagnostics with Polarization Nonlinear Optical Microscopy
<b>16.25-16.55</b>	<b>Coffee break</b>		
<b>Session 3 New Biomaterials for Cancer Theranostics-2</b>			
<b>Chairman: Dr. Mikhael Bechelany</b>			
16.55-17.15	<b>Dr. Vasyl Kilin</b>	University of Geneva, Switzerland	Bismuth Ferrite Harmonic Nanoparticles for Cell Tracking
17.15-17.35	<b>Dr. Arunas Jagminas</b>	State Research Institute Center for Physical Sciences and Technology, Lithuania	Synthesis, characterization and application of red-luminescent gold clusters for cancer imaging
17.35-17.55	<b>Prof. Una Riekstina</b>	Faculty of Medicine, University of Latvia, Latvia	Biofunctionalized ZnO Nanorods Detect Glycosphingolipid SSEA-4 Expressing Breast and Colorectal Carcinoma Cells
17.55-18.15	<b>Dr. Sargis Aleksanyan</b>	Institute for Physical Research, NAS of Armenia, Armenia	Preparation and Investigation of Carbon Coated (Fe-Fe <sub>3</sub> C) Nano-composites for Medical Applications
19.00-22.00	<b>Social Event: “Midsummer Neman Trip”</b>		



**Tuesday (21<sup>st</sup> June)**

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Time	Presenter	Institution	Title of the Lecture
<b>Session 4</b> Satellite „COST“ CM1403 „European upconversion network – from the design of photon upconverting nanomaterials to biomedical application“ symposium <b>Chairmans:</b> Prof. Artur Bednarkiewicz, Dr. Arturas Katelnikovas			
9.00-9.35	<b>Dr. Fiorenzo Vetrone</b> <i>Keynote</i>	Institut National de la Recherche Scientifique - Énergie, Matériaux et Télécommunications (INRS-EMT), Université du Québec, Canada	Lanthanide-Doped Upconverting Nanoparticles: Exploring Their Applications in Nanomedicine
9.35-10.05	<b>Dr. Hans-Heiner Gorris</b> <i>invited</i>	Institute of Analytical Chemistry, Chemo- and Biosensors, University of Regensburg, Germany	Photon-upconverting nanoparticles (UCNP) as a new luminescent label for background-free imaging and targeting
10.05-10.25	<b>Prof. Artur Bednarkiewicz</b>	Institute of Low Temperature and Structure Research, Polish Academy of Sciences in Wrocław, Poland	Upconverting nanoparticles for cancer theranostics
10.25-10.45	<b>Dr. Arturas Katelnikovas</b>	Vilnius University, Lithuania	Rare Earth Elements in our Everyday Life
<b>10.45-11.15</b>	<b>Coffee break</b>		
<b>10.45-14.00</b>	<i>Accompanying Person Program: Educational Program “Cepelinai” (free of charge). Meeting Hotel Foyer.</i>		
11.15-11.45	<b>Dr. Antonio Benayas</b> <i>Invited</i>	Institut National de la Recherche Scientifique, Centre Énergie Matériaux Télécommunication, Université du Québec, Canada	All-Optical Nanoprobes for Cancer Imaging: II-Biological Window Prospective & a Multifunctional New Player
11.45-12.05	<b>Prof. Yurii Orlovskii</b>	Institute of Physics, University of Tartu, Estonia	Contactless Optical Temperature Sensor
12.05-12.25	<b>PhD student</b>	Institut National de la	Rare-earth based nanoparticles for



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	<b>Artiom Skripka</b>	Recherche Scientifique, Centre Énergie Matériaux Télécommunication, Université du Québec, Canada	biomedical imaging and temperature sensing within second and third biological transparency windows
12.25-12.45	<b>PhD Student Isabel Gessner</b>	Institute of Inorganic Chemistry, University of Cologne, Germany	Upconverting NaGdF <sub>4</sub> :Er <sup>3+</sup> , Yb <sup>3+</sup> nanoparticles for energy transfer based drug release modeling
12.45-13.05	<b>Vilius Poderys</b>	UAB „Interlux“, Lithuania	Innovative instrumentation and solutions for nano theranostics research
13.05-13.25	<b>Danute Mizereviciute</b>	UAB „Biotecha“, Lithuania	Cancer Immunology
<b>13.25-15.00</b>	<b>Lunch</b>		
<b>Session 5 Young Scientists‘ Poster Session and Discussions</b>			
15.00-18.00	Poster Session with Elevator Pitch Presentations		
<b>18.30-22.00</b>	<b>Lithuanian Midsummer Party at Hotel “Pusynas”</b>		



**Wednesday (22<sup>nd</sup> June)**

**Language:** English

**Venue:** Conference Hall, Hotel “Pusynas”, Taikos st. 6, Druskininkai

Time	Presenter	Institution	Title of the Lecture
<b>Session 6 Cancer Therapy-1</b>			
<b>Chairman: Dr. Ciprian Tomuleasa</b>			
9.00-9.35	<b>Prof. Mika Lindén</b> <i>Keynote</i>	Inorganic Chemistry II, Ulm University, Germany	Intracellular drug release based on mesoporous silica nanoparticles for controlling stem cell proliferation and differentiation
9.35-10.05	<b>Prof. Mariapia Viola-Magni</b> <i>Invited</i>	Fondazione Enrico Puccinelli, Italy	Urine biomarker for bladder cancer
10.05-10.35	<b>Dr. Alain Geloën</b> <i>Invited</i>	Institut National des Sciences Appliquées de Lyon, France	Cell life and death with nanoparticles
10.35-11.05	<b>Prof. Natalia Shakhova</b> <i>Invited</i>	Nizhny Novgorod State University, Russia	Optical Imaging in Monitoring of Cancer
<b>10.45-14.00</b>	<i>Accompanying Person Program: Open-air museum of wood carvings. Meeting Hotel Foyer.</i>		
<b>11.05-11.35</b>	<b>Coffee break</b>		
11.35-11.55	<b>Sofia Kamlund</b>	Phase Holographic Imaging AB, Sweden	Applications for digital holographic microscopy
11.55-12.15	<b>Dr. Ciprian Tomuleasa</b>	Department of Hematology, Ion Chiricuta Oncology Institute, Romania	Gold nanoparticles enhance the effect of tyrosine kinase inhibitors in acute myeloid leukemia therapy
12.15-12.35	<b>Dr. Žygimantas Kardelis</b>	National Cancer Institute, Lithuania	Photodynamic diagnostic of bladder cancer with hexaminolaevulinic acid. Initial experience of National Cancer Institute
<b>12.35-14.00</b>	<b>Lunch</b>		
<b>Session 7 Cancer Therapy-2</b>			
<b>Chairman: Dr. Alain Geloën</b>			
14.00-14.20	<b>Tatiana Tolsik</b>	Friedrich Schiller University, University	Raman spectroscopy and MALDI spectrometry as novel tools for liver



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		Hospital, Germany	cancer diagnostic
14.20-14.40	<b>Dr. Cristian Berce</b>	Department of Hematology, Ion Chiricuta Oncology Institute, Romania	In Vivo Assessment of the Potential Medulotoxic Properties of Gold Nanoparticles on Male Crl:CD1(Icr) Mice
14.40-15.00	<b>Sigitas Zaremba</b>	National Cancer Institute, Lithuania	The role of autofluorescence bronchoscopy in the diagnosis of lung cancer
15.00-16.00	<b>Round Table Discussion</b>		
16.00-16.15	<b>Conference Closing Remarks</b>		
17.00-22.00	<b>Educational Program at Traditional Lithuanian Homestead “Romnesa”</b>		



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**Thursday (23<sup>rd</sup> June)**

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<b>Time</b>	<b>Event</b>
<b>10.00</b>	<b>Ground transportation from Druskininkai to Vilnius Airport</b>
<b>12.00</b>	<b>Arriving to Vilnius Airport</b>
<b>END</b>	





**POSTER SESSION**

**Tuesday (21<sup>st</sup> June)**

**15:00 – 18:00**

P 01	<u>Dovile Baziulyte</u> , Marius Stasys, Vitalijus Karabanovas, Ricardas Rotomskis, Simas Sakirzanovas	SYNTHESIS AND SURFACE MODIFICATION OF NaGdF <sub>4</sub> :Yb,Er@NaYbF <sub>4</sub> @NaGdF <sub>4</sub> CORE-SHELL-SHELL UPCONVERTING NANOPARTICLES
P 02	Mantas Norkus, <u>Aldona Beganskienė</u> , Aivaras Kareiva	LUMINESCENT SILVER SULFIDE NANOPARTICLES: SYNTHESIS AND CHARACTERIZATION
P 03	<u>Dominyka Dapkute</u> , Simona Steponkiene, Juras Kisonas, Danute Bulotiene, Una Riekstina, Ricardas Rotomskis	QUANTUM DOT-LOADED MESENCHYMAL STEM CELL: IN VITRO AND IN VIVO MIGRATION STUDIES
P 04	<u>Lina Dedelaite</u> , Raul D. Rodriguez, Lina Mikoliunaite, Eivvydas Andriukonis, Michael Hietschold, Arunas Ramanavicius, Dietrich R.T. Zahn	INVESTIGATION OF SINGLE CELLS ON SPECIFICALLY MODIFIED SURFACE
P 05	<u>Greta Jarockytė</u> , Vitalijus Karabanovas, Ričardas Rotomskis	3D SPHEROID CELL CULTURE AS AVASCULAR TUMOR MODEL FOR CANCER RESEARCH
P 06	<u>Violeta Jonusiene</u> , Ruta Marija Trimonyte, Daiva Dabkeviciene, Vladimir Sivakov, Ausra Sasnauskiene	CELLULAR RESPONSE TO SILICON-BASED NANOPARTICLES
P 07	<u>Eva Krakor</u> , Isabel Gessner, Anna Jurewicz, Sanjay Mathur	CONTROLLED DRUG RELEASE OF HOLLOW ELLIPSOIDAL SiO <sub>2</sub> RODS FOR THERAPEUTIC APPLICATIONS
P 08	<u>Agnė Mikalauskaitė</u> , Renata Karpicz, Arūnas Jagminas	THE INFLUENCE OF DIALYSIS ON THE PROPERTIES OF RED-LUMINESCENT GOLD CLUSTERS
P 09	<u>I. Mikalauskaite</u> , G. Plečkaitytė, A. Beganskienė, V. Karabanovas, G. Streckytė	THERMAL DECOMPOSITION SYNTHESIS OF NaYF <sub>4</sub> : Yb <sup>3+</sup> , Er <sup>3+</sup> , Mn <sup>2+</sup> WITH SHIFTED YELLOW-RED EMISSION OUTPUT
P 10	Kl. Pajuste, O. Petrichenko, M. Rucins, A. Gulbe, L. Jackevica, M. Plotniece, M. Gosteva, K. Pajuste, A. Sobolev, I. Domraceva, <u>A. Plotniece</u>	PYRIDINIUM DERIVATIVES FOR DEVELOPMENT OF THERANOSTIC NANOSYSTEMS



P 11	Una Riekstiņa, Dominyka Dapkute, Līga Saulīte, Kaspars Jēkabsons, Ineta Popēna, Kārlis Pleiko, Simona Steponkiene, Ričardas Rotomskis	CHARACTERIZATION OF QD655 CARBOXYL UPTAKE AND FUNCTIONAL EFFECTS ON HUMAN MESENCHYMAL STEM CELLS
P 12	Markus Schütz, Isabel Gessner, Stefan Schonauer, Bernd Neumaier, Sanjay Mathur	RADIOACTIVELY LABELED MAGNETIC NANOPARTICLES FOR BIMODAL (MRI/PET) CONTRAST ENHANCEMENT
P 13	Dovilė Šiuškaitė, Renatas Aiškinis, Julija Fadejeva, Saulius Cicėnas, Diana Schweigert	PREDICTIVE VALUES OF ERCC1 AND RRM1 FOR CLINICAL OUTCOME IN NON-SMALL CELL LUNG CANCER
P 14	Akvilė Slektaite, Sonata Adomaviciute, Ricardas Rotomskis	POLYVINYLPIRROLIDONE STABILIZED GOLD NANOPARTICLES FOR X-RAY IMAGING IN VIVO
P 15	Annika Szymura, Anna Jurewicz, Isabel Gessner, Eva Krakor, Daniel Hoffelner and Sanjay Mathur	DESIGN AND SYNTHESIS OF NEW CIPROFLOXACIN AND IMIDAZOLIUM DERIVATIVES AS POTENTIAL ANTIBACTERIAL AND ANTICANCER AGENTS
P 16	Ioana Frinc, Sanda Boca, B Petrushev, Timea Simon, C Berce, GA Gafencu, Delia Dima, Sonia Selicean, Valentina Pileczki, Anca Buzoianu, A Florea, A Irimie, S Astilean, Ioana Berindan-Neagoe, A Cucuianu, Anca Bojan, Mariana Patiu, C Tomuleasa	GOLD NANOPARTICLES CONJUGATED WITH RITUXIMAB FOR THE TREATMENT OF CHRONIC LYMPHOCYTIC LEUKEMIA
P 17	E.Kaniukov, E.Shumskaya, D.Yakimchuk, A. Kozlovskiy, M. Zdorovets	FeCo NANOTUBES: PERFECT TOOL FOR DRUG DELIVERY