PLENARY SESSIONS SFM/TOMTI/CHRW

https://osachapter.zoom.us/j/98300886300

SARATOV TIME UTC+4

SESSION I

SEPTEMBER 29, TUESDAY, 14-00-14-40 (BERLIN 12-00-12-40)



MECHANISMS OF RECOVERY FUNCTIONS OF SLEEP: THE ROLE OF THE MENINGEAL LYMPHATIC SYSTEM

Thomas Penzel

Interdisciplinary Center of Sleep Medicine in Charité – Universitätsmedizin Berlin, Germany

SEPTEMBER 29, TUESDAY, 14-40-15-20 (BERLIN 12-40-13-20)



NONLINEAR ANALYSIS OF ELECTRICAL ACTIVITY OF SLEEP BRAIN: PHOTOSTIMULATION OF THE MENINGEAL LYMPHATIC SYSTEM

Juergen Kurths

Physics Department, Humboldt University, Berlin, Germany Potsdam Institute for Climate Impact Research, Potsdam, Germany

SEPTEMBER 29, TUESDAY, 15-20-16-00 (SAMARA 15-20-16-00)



MULTIMODAL OPTICAL DIAGNOSTICS OF CANCER

Valery P. Zakharov

Samara National Research University, Samara, Russia

SEPTEMBER 29, TUESDAY, 16-00-16-40 (BARCELONA 14-00-14-40)



ADAPTING TO A PANDEMIC & AN INTERNATIONAL CLINICAL TRIAL WITH DIFFUSE OPTICS

Marco Pagliazzi, Lorenzo Cortese, Umut Karadeniz, ICFO; Jaume Mesquida, Hospital de Sabadell, Institut Universitari Parc Taulí; <u>Turqut Durduran</u>, ICFO-The Institute of Photonic Sciences, Barcelona, Spain, Institució Catalana de Recerca i Estudis Avançats (ICREA), Spain on behalf of the HEMOCOVID-19 consortium

SEPTEMBER 29, TUESDAY, 16-40-17-20 (JENA 14-40-15-20)



CLINICAL BIOPHOTONICS - FROM BENCH TO BEDSIDE Juergen Popp Leibniz Institute of Photonic Technology, Jena, Germany

SEPTEMBER 29, TUESDAY, 17-20-17-30 COFFE BREAK FOR OWN

SESSION II

SEPTEMBER 29, TUESDAY, 17-30-18-00 (WORCESTER 9-30-10-00)



MAGNETIC RESONANCE IMAGING AND OPTICAL CLEARING Alexei A. Bogdanov Jr.

University of Massachusetts Medical School, Worcester MA, USA

A.N. Bakh Institute of Biochemistry, Federal Research Center "Fundamentals of Biotechnology" of the Russian Academy of Sciences and Moscow State University, Moscow, Russia

SEPTEMBER 29, TUESDAY, 18-00-18-20 (SHOHAM 17-00-17-20)



ASPECT IMAGING COMPACT PRECLINICAL PERMANENT MAGNETS: TECHNOLOGY AND APPLICATIONS Kobi Katsobashvili

Aspect Imaging LTD., Shoham, Israel

SEPTEMBER 29, TUESDAY, 18-20-19-00 (BOSTON 10-20-11-00)



MODELING OF SPECKLE CONTRAST AND DYNAMICS IN THE SINGLE AND FEW SCATTERING REGION David Boas

Boston University, Boston, USA

SEPTEMBER 29, TUESDAY, 19-00-19-15 (BERLIN 17-00-17-15)



FLIM AND FCS MICROSCOPY IN BIOPHYSICS AND BIOCHEMISTRY PICOQUANT Mathias Bayer

PicoQuant GmbH, Berlin, Germany

SEPTEMBER 29, TUESDAY, 19-15-19-55 (MONTREAL 11-15-11-55)



UBIQUITOUS TERAHERTZ PHOTONICS

Maksim Skorobogatiy

Department of Engineering Physics, Polytechnique Montreal, Canada

SEPTEMBER 29, TUESDAY, 19-55-20-35 (GALVESTON 10-55-11-35)



OPTOACOUSTICS: EMERGING IMAGING AND THERANOSTIC MODALITY Rinat O. Esenaliev

Rinat O. EsenalievUniversity of Texas Medical Branch, Galveston, Texas, USA

SESSION III

SEPTEMBER 30, WEDNESDAY, 9-00-9-40, TUCSON (SEPTEMBER 29, TUESDAY, 22-00-22-40)



DEVELOPMENT OF SUB-MILLIMETER MULTIFUNCTION OPTICAL ENDOSCOPES

Jennifer Barton University of Arizona, Tucson, Arizona, USA

SEPTEMBER 30, WEDNESDAY, 9-40-10-20 (TOKYO 14-40-15-20)



WHOLE-BODY/ORGAN IMAGING WITH SINGLE-CELL RESOLUTION BY CUBIC

Hiroki R. Ueda

The University of Tokyo/RIKEN BDR, Tokyo, Japan

SEPTEMBER 30, WEDNESDAY, 10-20-11-00 (MOSCOW 9-20-10-00)



DESIGN OF TUNABLE COLLOIDAL INTERACTIONS IN EXTERNAL ROTATING ELECTRIC AND MAGNETIC FIELDS Stanislav O. Yurchenko

Bauman Moscow State Technical University, Moscow, Russia

SEPTEMBER 30, WEDNESDAY, 11-00-11-40 (SARATOV 11-00-11-40)



NUCLEIC ACID & AU NANOPARTICLES-BASED ADVANCED FUNCTIONAL BIOMATERIALS

Timofey E. Pylaev

Institute of Biochemistry and Physiology of Plants and Microorganisms, Russian Academy of Sciences, Saratov, Russia

SEPTEMBER 30, WEDNESDAY, 11-40-12-00 COFFE BREAK FOR OWN

SESSION IV

SEPTEMBER 30, WEDNESDAY, 12-00-12-40 (MOSCOW 11-00-11-40)



QUANTUM COMPUTING WITH HIGH-DIMENSIONAL SYSTEMS Alexei K. Fedorov

Russian Quantum Center, Skolkovo, Russia Moscow Institute of Physics and Technology, Russia

SEPTEMBER 30, WEDNESDAY, 12-40-13-20 (MOSCOW 11-40-12-20)



DECELLULARIZED MATERIALS IN REGENERATIVE MEDICINE THROUGH THE PRISM OF BIOPHOTONICS Peter S. Timashev

Institute for Regenerative Medicine, Sechenov University, Russia Department of Polymers and Composites, N.N. Semenov Institute of Chemical Physics of RAS, Russia Institute of Photonic Technologies, Research Center "Crystallography and Photonics" of RAS, Russia

SEPTEMBER 30, WEDNESDAY, 13-20-13-50 (BERLIN 11-20-11-50)



FIBER PHOTONICS FOR LIFE: NEWS & DREAMS
Viacheslav Artyushenko
art photonics GmbH, Berlin, Germany

SESSION V

TOMTI'20 _Plenar SESSION 5, https://us02web.zoom.us/j/88598605813?pwd=903032

OCTOBER 1, THURSDAY, 15-00-15-25 (MOSCOW 14-00-14-25)



VISUALIZATION OF HISTONE EPIGENETICS: A NEW WAY TO TRACK SINGLE-CELL PHYSIOLOGY

Konstantin A. Lukyanov

Center of Life Sciences, Skolkovo Institute of Science and Technology, Moscow, Russia

OCTOBER 1, THURSDAY, 15-25-15-40 (AMSTERDAM 13.25-13.40)



SUPER-RESOLUTION WITH VERY LOW LASER POWER, IDEAL FOR LONG TERM IMAGING Peter Drent

Confocal.nl, Amsterdam, The Netherlands

OCTOBER 1, THURSDAY, 15-40-16-20 (HOUSTON 6-40-7-20)



LIVE BIOPHOTONIC ANALYSIS OF EARLY MAMMALIAN EMBRYONIC PROCESSES

Irina V. Larina

Baylor College of Medicine, Houston, USA

OCTOBER 1, THURSDAY, 16-20-17-00 (MICHGAN 8-20-9-00)



IMAGE-GUIDED PRECISION NANOMEDICINE FOR CANCER THERAPY

Dr. Anna Moore

Departments of Radiology and Physiology, Precision Health Program College of Human Medicine Michigan State University, East Lansing, USA

OCTOBER 1, THURSDAY, 17-00-17-40 (BOSTON) 9-00-9-40



MOLECULAR IMAGING USING FLUORESCENCE LIFETIME Dr. Anand T.N. Kumar

Harvard Medical School Optical Molecular Imaging Laboratory Athinoula A. Martinos Center for Biomedical Imaging Massachusetts General Hospital, Boston, USA

OCTOBER 1, THURSDAY, 17-40-18-00 (ARES - 15-40-16-00)



PRECLINICAL & MULTIMODALITY IMAGING MR SOLUTIONS Fabrice Chaumard,
MR Solutions Ltd, Ares, France