

INTERNATIONAL CONFERENCE
“TUMOR AND HOST: NOVEL ASPECTS OF OLD PROBLEM”
21–24 September 2010 Kyiv, Ukraine

National Academy of Sciences of Ukraine
R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology



Dear colleagues,

On behalf of the Organizing Committee, it is a great honor to welcome you to attend the **International Conference “Tumor and Host: Novel Aspects of Old Problem”** devoted to the 50th anniversary of R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology of National Academy of Sciences of Ukraine (T&H-2010) which will be held during September 21–24, 2010. The 50th anniversary will be celebrated in the wonderful city of Kyiv, Ukraine — one of the oldest European Capitals with its 1500 year rich history, nation’s financial, political and cultural centre.

R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology is leading cancer research centre in Ukraine, associated member of the Organization of European Cancer Institutes and European Association for Cancer Research.

The mission of this conference is to advance the understanding of mechanisms of cancer development, tumor and host interaction and outline new strategies for cancer prevention and treatment. The Scientific Program will cover the most important topics of cancer research and will be divided into 5 Sessions: 1) Tumor biology and Immunology; 2) Metabolic and Stromal Microenvironment of Tumor Cells; 3) Tumor markers: Signaling, Diagnosis and Prognosis; 4) Mechanism of Tumorigenesis and Cancer Prevention; 5) Cancer Therapy: New Technologies, Biotherapy, Individualization. An outstanding panel of speakers will lead and facilitate the discussions on and around new diagnostics, therapies, biomarkers, latest trends and developments in tumor and host interactions. In addition to the scientific program, you will be able to enjoy the culture and sights of Kyiv, one of the largest and the most inspirational cities in Ukraine and Slavic World.

The Conference sessions will be held in the Conference Hall of the National Academy of Sciences of Ukraine located in the historic centre of Kyiv. The Official Opening Ceremony and Keynote Forum will take place on Tuesday afternoon, September 21. We would be honored by your attendance of the Conference, we hope that you will enjoy this opportunity to communicate with colleagues from all over the world. All Ukrainian scientific community cordially welcome you to join us in Kyiv.

Professor Vasyl F. Chekhun
Chairman of the Organizing Committee of T&H-2010
Director of R.E. Kavetsky Institute of Experimental Pathology,
Oncology and Radiobiology of National Academy of Sciences of Ukraine
Academician of National Academy of Sciences of Ukraine

The Scientific Program will focus on the most important topics of cancer research. There will be plenary lectures and round-table-discussions by experts in the field as well as carefully selected oral presentations and scientific posters. Confirmed Speakers of the Conference: Vladimir Bogatyrev, N.N. Blokhin Russian Cancer Research Center of the Russian Academy of Medical Sciences, Moscow, Russia; Friederike Berberich-Siebelt, Department of Molecular Pathology and Neurology, Julius Maximilians-University Wuerzburg, Germany; Vasyl F. Chekhun, R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, Kyiv, Ukraine; Ludmila Drobot, Palladin Institute of Biochemistry, NAS of Ukraine, Kyiv, Ukraine; Alexander Eggermont, Department of Surgical Oncology, Erasmus University, Rotterdam, Netherlands; Helmut Friess, Department of Surgery, Technische

Universität München, Munich, Germany; Danilo F. Gluzman, Professor, R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, Kyiv, Ukraine; Ivan Gout, Cancer Biochemistry UCL Research Department of Structural and molecular biology University College London, UK; Michael Horsman, Department of Experimental Clinical Oncology, Aarhus University Hospital Aarhus, Denmark; Peter A. Jones, University of Southern California/Norris Comprehensive Cancer Center, Los Angeles, CA, USA; Jörg Kleeff, Department of Surgery, Technische Universität München, Munich, Germany; Eva Klein, Microbiology and Tumor Biology Center of Karolinska Institute, Stockholm, Sweden; Michael Molls, Department of Radiation Oncology, Technische Universität München, Munich, Germany; Vladimir M. Moiseenko, Petrov Institute of Oncology, St. Petersburg, Russia;

Sergiy P. Osinsky, R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, Kyiv, Ukraine; Semyon V. Petrov, Department of pathology, Kazan State Medical University, Kazan, Russia; Ihor Pogribnyi, National Center of Toxicological Research, Jefferson, USA; Sharon A. Ross, National Cancer Institute, Bethesda, USA; Ivan Rusyn, University of North Carolina, Chapel Hill, USA; Alexander M. Shneider, Cure Lab Inc. Canton, USA; Antonio Sica, Istituto Clinico Humanitas, Milan, Italy; Galina I. Solanik, R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, Kyiv, Ukraine; Peter Vaupel, University Mainz, University Medical Center, Mainz, Germany; Robert A. Weinberg, Whitehead Institute for Biomedical Research and Department of Biology Massachusetts Institute of Technology, Cambridge, USA; Isaac Witz, Tel Aviv University, Tel Aviv, Israel..

SESSION 1: TUMOR BIOLOGY AND IMMUNOLOGY

Chair: Dr. Eva Klein, Professor, Microbiology and Tumor Biology Center of Karolinska Institute, Stockholm, Sweden.

Co-Chair: Dr. Juriy I. Kudravets, Professor, R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, Kyiv, Ukraine.

The session will focus on the basic aspects of tumor biology and immunology in a single issue framework. Topics include mechanisms that determine metastasis and homing of tumor cells, tumor angiogenesis and lymphoangiogenesis, the biology and molecular biology of cancer stem cells, immunological aspects of tumor-host interaction.

SESSION 2: METABOLIC AND STROMAL MICROENVIRONMENT OF TUMOR CELLS

Chair: Dr. Peter Vaupel, Professor, University Mainz, University Medical Center, Germany.

Co-Chair: Dr. Sergiy P. Osinsky, Professor, R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, Kyiv, Ukraine.

The session will focus on the tumor microenvironment as a key factor in tumor development and progression. Topics include hypoxia signaling, angiogenesis and aerobic glycolysis in human tumors as a basis for diagnostics and anticancer strategies. Key questions which are to be discussed: 1) Inflammation and cancer: what is common and what is different? 2) Tumor hypoxia impact on tumor-host interaction: a main regulator of malignant process outcome?

SESSION 3: TUMOR MARKERS: SIGNALING, DIAGNOSIS AND PROGNOSIS

Chair: Dr. Danilo F. Gluzman, Professor, R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, Kyiv, Ukraine.

Co-Chair: Dr. Ivan Gout, Professor, Cancer Biochemistry UCL Research Department of Structural and molecular biology University College, London, UK;

Co-Chair: Dr. Svitlana P. Sidorenko, R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, Kyiv, Ukraine.

The session will cover fundamental and practical aspects of tumor markers: identification of novel tumor markers, peculiarity of signal transduction pathways in tumor cells, application of tumor markers and cell differentiation antigens for cancer diagnosis and prognosis.

SESSION 4: MECHANISM OF TUMORIGENESIS AND CANCER PREVENTION

Chair: Dr. Ihor Pogribnyi, Professor, Division of Biochemical Toxicology, National Center for Toxicological Research, Jefferson, AR, USA.

Co-Chair: Dr. Peter A. Jones, Professor, University of Southern California/Norris Comprehensive Cancer Center, Los Angeles, CA, USA.

The session will focus on mechanisms of tumorigenesis and cancer prevention research through early detection, treatment and lifestyle changes with key features on molecular biology and genetics and their interactions with clinical cancer prevention.

SESSION 5: CANCER THERAPY: NEW TECHNOLOGIES, BIOTHERAPY, INDIVIDUALIZATION

Chair: Dr. Volodimir O. Shlahovenko, Professor, R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, Kyiv, Ukraine.

Co-Chair: Dr. Vladimir M. Moiseenko, Professor, Petrov Institute of Oncology, St. Petersburg, Russia

Co-Chair: Dr. Galina I. Solanik, R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, Kyiv, Ukraine.

The clinical and experimental investigations of cancer therapeutics mediated through tumor-host interactions (biotherapy, vascular disruptive therapy, etc.), validation of new targets for cancer therapy and new strategies for delivering therapy to tumors will be discussed.