Devoted
to the 25th anniversary
of the IEPOR membership
in the Organisation
of European Cancer Institutes



TUMOR
Novel Aspects of Old Problem
& HOST

IEPOR

PROGRAM

NATIONAL ACADEMY OF SCIENCES OF UKRAINE
RE KAVETSKY INSTITUTE OF EXPERIMENTAL PATHOLOGY, ONCOLOGY
AND RADIOBIOLOGY

TUMOR AND HOST

NOVEL ASPECTS OF OLD PROBLEM

II INTERNATIONAL SCIENTIFIC CONFERENCE

PROGRAM

devoted to the 25th anniversary of the Institute membership
in the Organisation of European Cancer Institutes

November 21-22, 2019
Kyiv, Ukraine

With the patronage of the OECI — Organisation of European Cancer Institutes

OECI
ORGANISATION OF EUROPEAN CANCER INSTITUTES
EUROPEAN ECONOMIC INTEREST GROUPING

Venue

Great Conference Hall of the NAS of Ukraine
55 Volodymyrska Str., Kyiv

Registration of the participants

November 21, 2019, from 8.00 to 9.00 am

Exhibition of leading Ukrainian and international manufacturers of laboratory equipment, medical devices, pharmaceuticals, reagents etc. will be held during the Conference



UAC
Unity Against Cancer
Charitable organization
Ukraine



With the support of the Charitable Organization «Unity Against Cancer»

RE Kavetsky Institute
of Experimental Pathology,
Oncology and Radiobiology, NASU

Organizing Committee

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Vasyl Chekhun

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Official webpage of the Conference

http://www.iepor.org.ua/en/conferences/tumor-host-2019.html

Conference Publication

Materials of the Conference are published
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Welcome address

Dear friends and colleagues,

It is a great pleasure for me to welcome sincerely all the participants of the Second International Conference "Tumor and Host: Novel Aspects of Old Problem".

We are honored that the Conference is hosted by RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology of the National Academy of Sciences of Ukraine, the leading cancer research center in Ukraine. The time of our Conference coincides with the 25th anniversary of our Institute membership in the Organisation of European Cancer Institutes (OECI) and we appreciate much that the leading OECI representatives will take part along with Ukrainian colleagues and our esteemed guests from several scientific centers of Europe and USA.

The concept of tumor-host relations is one of the fundamental issues bringing together and integrating the efforts of many scientists all over the world who attempt to develop the effective solutions in fighting against cancer. The inescapable fact is that tumor-host relations represent a part of the natural history of cancer and only the comprehension of such a problem will bring us closer to the knowledge of cancer origin.

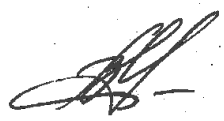
We are proud that the problem of tumor-host relations has been the core issue of research since the foundation of our Institute. And our Conference is also to commemorate the 120th anniversary of the birth of RE Kavetsky, the founder of our Institute, who contributed much to this challenging issue.

Nowadays the international cooperation in cancer research, the participation in joint scientific projects and the exchange of views are more crucial than ever before for taking up this challenging issue facing humanity.

We have the privilege of holding our conference in Kyiv, the capital of Ukraine, the beautiful city with rich history, the city that is ancient but eternally young, the city of glorious monuments and historic attractions, the center of the Ukrainian cultural and political life.

I am delighted to welcome all our guests who are going to come to our city for this meeting and wish successful and fruitful work to all the participants of the Conference.

Chairperson of Organizing Committee,
Director of RE Kavetsky Institute of Experimental Pathology,
Oncology and Radiobiology, NASU



Vasyl Chekhun

Program

November 21, 2019

Welcome greeting

09.00–09.45

Session 1

PATHOLOGY DAY:
MOLECULAR DIAGNOSES AND RESEARCH IN CLINICAL TISSUES
Chairpersons: Vasyl Chekhun, Claudio Lombardo

09.45–11.30

9.45–10.15	**Opening lecture. OECI: Toward a European Cancer Mission** Claudio Lombardo *OECI Director, Brussels, Belgium*
10.15–11.00	**Keynote lecture. Precision oncology development in Europe** Georgio Stanta *University of Triest, Triest, Italy*
11.00–11.30	**Plenary lecture. Role of microRNAs in globalization of tumor-host relationship** Vasyl Chekhun *RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NASU, Kyiv, Ukraine*
11.30-12.00	**Coffee break**

Session 2

MOLECULAR BIOLOGICAL ASPECTS OF TUMOR-HOST RELATIONSHIP

Chairpersons: Georgio Stanta, Liubov Buchynska

12.00–14.00

12.00–12.20	**Ca^{2+}-channel-forming ORAI proteins: cancer foes or cancer allies?** Yaroslav Shuba *Bogomoletz Institute of Physiology, NASU, Kyiv, Ukraine* *Universite de Lille, Villeneuve d'Ascq, France*
12.20–12.40	**MYCN and metabolic control in pediatric neuroblastoma** Marie Arsenian-Henriksson *Karolinska Institute, Stockholm, Sweden*
12.40–13.00	**Tumor brain and chemo brain - from mechanisms to novel mitigation strategies** Olga Kovalchuk *University of Lethbridge, Alberta, Canada*
13.00–13.20	**Molecular genetic aspects of endometrioid carcinoma progression in patients with family history of cancer** Liubov Buchynska *RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NASU, Kyiv, Ukraine*
13.20–13.40	**Circulating miRNAs: diagnostic, prognostic and predictive biomarkers of breast cancer** Nataliia Lukianova *RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NASU, Kyiv, Ukraine*

13.40–14.00	**Personalized approach for treatment of patients with metastatic luminal Her 2 negative breast cancer** Lubov Syvak *National Cancer Institute, Kyiv, Ukraine*
14.00 –15.00	**Lunch**

Poster session

Moderators: Galyna Solianik, Larysa Shlapatska, Igor Todor

14.30 –15.30

(List of posters on page 12)

Session 3

HISTOGENESIS AND PROGRESSION OF NEOPLASMS

Chairpersons: Yuri Persidsky, Nataliia Lukianova

15.00–17.40

15.00–15.20	**Immunophenotypic features of leukemic stem cells and bulk of blasts in acute myeloid leukemia** Daniil Gluzman *RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NASU, Kyiv, Ukraine*
15.20–15.40	***In vitro* and *in vivo* systems for studies of brain metastases** Yuri Persidsky *Temple University School of Medicine, Philadelphia, USA* *Institute of Biophysics, Biological Research Centre of the Hungarian Academy of Sciences, Hungary*

15.40–16.00	**Molecular mechanisms of initiation of carcinogenesis in the testis** Svitlana Bazalytska *State Institution «Institute of Urology, NAMSU», Kyiv, Ukraine*
16.00–16.20	**Spectrum of somatic mutations in patients with non-small-cell lung cancer: using the technology of next generation sequencing in the Republic of Belarus** Elena Mikhalenko *Institute of Genetics and Cytology, NAS of Belarus, Minsk, Republic of Belarus*
16.20–16.40	**Molecular-genetic and immunohistochemical features of actinic keratosis** Olena Oshyvalova *State Scientific Institution «Scientific and Practical Centre of Preventive and Clinical Medicine» of the State Administration, Kyiv, Ukraine* *PL Shupyk National Medical Academy of Postgraduate Education, Kyiv, Ukraine*
16.40–17.00	**Experience in using Erbisol Ultrapharm for treatment of patients with pancreatic cancer** Viktor Zhylchuk *Rivne Regional Oncological Center, Rivne, Ukraine*
17.00–17.20	**Double role of ribonucleases in the relationship of tumor and host** Volodymyr Shliakhovenko *RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NASU, Kyiv, Ukraine*
17.20–17.40	**CMV content in brain tumors of different histogenesis and degree of malignancy** Mykola Lisianyi *State Institution «Romodanov Neurosurgery Institute, NAMSU», Kyiv, Ukraine*

15.00	**Roundtable. Pathways for implementing EC standards for personalized diagnosis and treatment of cancer patients in Ukraine**
18.00	**Welcome gala-dinner**

November 22, 2019

Session 4

MICROENVIRONMENT AND TUMOR GROWTH

Chairpersons: Angelo Paradiso, Iryna Ganusevych

9.00–11.30

9.00–9.30	**Keynote lecture. Biobanking for precision medicine: from the patient to European networking** Angelo Paradiso *National Cancer Institute – IRCCS «G Paolo II», Bari, Italy*
9.30–9.50	**MTHFR, ESR1, FSHR intergenic interaction in the risk of breast diseases development in infertile women** Zoia Rossokha *State Institution «Reference Centre for Molecular Diagnostic of Ministry of Health of Ukraine», Kyiv, Ukraine*
9.50–10.10	**Cancer-cell-exosomes as novel devise for a Nti-cancer vaccine development** Vita Pašukonienė *National Cancer Institute, Vilnius, Lithuania*
10.10–10.30	**Macrophages: effectors of antitumor resistance or cells with cancer-promoting effect** Olga Karaman *RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NASU, Kyiv, Ukraine*

10.30–10.50	**Automation technologies in oncohematology** Nikolay Oganesian *Taras Shevchenko National University of Kyiv, Kyiv, Ukraine*
10.50–11.05	**Prostate cancer subtyping by gene expression characteristics of tumor and stromal cells** Ganna Gerashchenko *Institute of Molecular Biology and Genetics, NASU, Kyiv, Ukraine*
11.05–11.20	**Relationship between changes in the thymulin, melatonin, cortisol and T-lymphocytes biorhythms in oncological patients** Iryna Labunets *State Institute of Genetic and Regenerative Medicine, NAMSU, Kyiv, Ukraine*
11.20–11.30	**Leading solutions in digital pathology from Leica Biosystems** Anton Zagurdaiev *ALT Ukraine Ltd., Kyiv, Ukraine*
11.30–12.00	**Coffee break**

Session 5

CANCER PREVENTION AND THERAPY: NEW TECHNOLOGIES AND INDIVIDUALIZATION

Chairpersons: Zoia Rossokha, Vita Pašukonienė

12.00 – 15.00

12.00–12.20	**Reprogramming of cancerous cells as a promising approach of cancer therapy** Olena Kashuba *RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NASU, Kyiv, Ukraine* *Karolinska Institutet, Stockholm, Sweden*

12.20–12.40	**Innovative surgical technologies for high efficiency treatment of brain malignant tumors** Volodymyr Rozumenko *State Institution «Romodanov Neurosurgery Institute, NAMSU», Kyiv, Ukraine*
12.40–13.00	**Personalization of cancer treatment with circulating tumor cells test** Serhiy Souchelnytskyi *Qatar University, Doha, Qatar* *Oranta Cancer Diagnostics AB, Uppsala, Sweden*
13.00–13.20	**Sorption therapy as modifier of tumor-host relationship** Volodymyr Nikolaev *RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NASU, Kyiv, Ukraine*
13.20–13.40	**Molecular mechanisms of oxidative damage and dysfunction of liver cells in patients with metastatic colorectal cancer** Anton Burlaka *National Cancer Institute, Kyiv, Ukraine*
13.40–14.00	**Genome instability and endocrine-metabolic homeostasis in endometrial cancer patients** Olga Brieieva *RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NASU, Kyiv, Ukraine*
14.00–14.20	**The applications of chaos theory in malignant melanoma diagnosis. Review and own data** Valerii Orel *National Cancer Institute, Kyiv, Ukraine*
14.20–14.40	**Quinazoline derivatives and tumor growth** Nadiya Sharykina *State Institution «Institute of Pharmacology and Toxicology, NAMSU», Kyiv, Ukraine*
14.40–15.00	**Discussion. Closing ceremony**

Posters

CD150 IS A POSITIVE REGULATOR OF CD20 EXPRESSION IN CHRONIC LYMPHOCYTIC LEUKEMIA B CELLS

V. Shcherbina, I. Gordiienko, T. Ivanivskaya, L. Shlapatska

RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NASU, Kyiv, Ukraine

ELECTROKINETIC CHARACTERISTICS OF LYMPHOID CELLS IN HEALTHY DONORS AND PATIENTS WITH LEUKEMIA

Yu. Yanish, S. Zaletok, V. Bentrad

RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NASU, Kyiv, Ukraine

FUNCTIONAL ACTIVITY OF BLOOD CIRCULATING PHAGOCYTES AS A PREDICTOR OF THE EFFECTIVENESS OF ANTITUMOR ACTION OF DOXORUBICIN

I. Prokhorova, G. Solyanik

RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NASU, Kyiv, Ukraine

BRONCHOSCOPIC AND CYTOLOGICAL STUDIES IN THE CENTRAL GROWTH OF LUNG CANCER

L. Bolgova[1], T. Tuganova[1], O. Alekseenko[1], A. Ponomarenko[2]

[1] *National Cancer Institute, Kyiv, Ukraine*
[2] *National University «Kyiv-Mohyla Academy», Kyiv, Ukraine*

PLATELETS OF BRAIN GLIOMA PATIENTS RELEASED MEDIATORS AFFECTING GLIOMA CELLS MITOTIC ACTIVITY *IN VITRO*

L. Liubich, L. Staino, N. Lisyanyi, T. Malysheva, D. Egorova, V. Vaslovych, L. Kot

State Institution «Romodanov Neurosurgery Institute, NAMSU», Kyiv, Ukraine

ANTICANCER EFFECTIVENESS OF XENOVACCINES IN MOUSE TUMOR MODEL

A. Darinskas[1,2], J. Krasko[1,2], K. Žinioytė[1,3], V. Pašukonienė[1]

[1] *National Cancer Institute, Vilnius, Lithuania*
[2] *JSC Froceth, Vilnius, Lithuania*
[3] *Vilnius University, Vilnius, Lithuania*

ADSORPTIVE CARBON DRESSING FOR THE TREATMENT OF RAT MODEL WOUND AFTER CISPLATIN ADMINISTRATION AND GUERIN'S CARCINOMA GRAFTING

O. Babchenko, L. Sakhno, V. Nikolaev

RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NASU, Kyiv, Ukraine

FEATURES OF POLYAMINE SPECTRUM IN PERIPHERAL BLOOD MONONUCLEAR FRACTION OF PATIENTS WITH DIFFERENT LYMPHO- AND MYELOPROLIFERATIVE DISEASES

S. Zaletok, O. Klenov, V. Bentrad, O. Orlovsky, Yu. Yanish, L. Sklyarenko

RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NASU, Kyiv, Ukraine

ANALYSIS OF PIK3CA MUTATION IN PATIENTS WITH LOCALLY ADVANCED BREAST CANCER

A. Pryvalova, I. Vynnychenko, O. Vynnychenko

Medical Institute of Sumy State University, Sumy, Ukraine

COMBINED BRCA1/2, CHEK2 AND TP53 GENE MUTATIONS ANALYSIS IN PATIENTS WITH FAMILY HISTORY OF BREAST CANCER

O. Lobanova[1], Z. Rossokha[2], O. Popova[2], V. Cheshuk[1], R. Vereshchako[1]

[1] *Bogomolets National Medical University, Kyiv, Ukraine*
[2] *State Institution «Reference Centre for Molecular Diagnostic of Ministry of Health of Ukraine», Kyiv, Ukraine*

ON THE PROBLEM OF THE DEFINITION OF BIOCHEMICAL PREDICTORS OF NON-MALIGNANT CELLS IN ONCOLOGICAL PATIENTS

L. Makovetska, E. Domina, M. Druzhyna

RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NASU, Kyiv, Ukraine

METHYLATION STATUS IN PROMOTER REGION OF *RUNX3* GENE AMONG WOMAN WITH BREAST CANCER DEPENDING OF AGE

N. Medvedieva[1], O. Lobanova[2], Z. Rossokha[1], V. Vershyhora[1], L. Ivanets[1], V. Cheshuk[2], R. Vereshchako[2], N. Gorovenko[3]

[1] State Institution «Reference Centre for Molecular Diagnostic of Ministry of Health of Ukraine», Kyiv, Ukraine
[2] Bogomolets National Medical University, Kyiv, Ukraine
[3] PL Shupyk National Medical Academy of Postgraduate Education, Kyiv, Ukraine

MODIFICATION OF METAL CONTAINING ENZYMES, METABOLIC PROFILE AND MORPHOSTRUCTURAL CHARACTERISTICS OF WALKER-256 CARCINOSARCOMA UNDER THE INFLUENCE OF EXOGENOUS LACTOFERRIN

N. Lukyanova[1], Yu. Lozovska[1], L. Naleskina[1], I. Todor[1], I. Andrusyshyna[2], A. Burlaka[1], V. Chekhun[1]

[1] RE. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NASU, Kyiv, Ukraine
[2] SI «Yu I Kundiev Institute of Occupational Health», NAMSU, Kyiv, Ukraine

DEVELOPMENT OF INDICATIONS FOR NEOADJUVANT CHEMICAL TREATMENT THERAPY IN COMPLEX TREATMENT OF NON-SMALL-CELL LUNG CANCER III A STAGE

V. Zakharychev, K. Malyarchuk

PL Shupyk National Medical Academy of Postgraduate Education, Kyiv, Ukraine

DENDRITIC CELL IMMUNOTHERAPY IN LOCOREGIONAL RENAL CELL CARCINOMA: 5-YEAR FOLLOW UP PERIOD

O. Gorbach, N. Khranovska, O. Skachkova, M. Inomistova, O. Voylenko, E. Stakhovskyi

National Cancer Institute, Kyiv, Ukraine

ANTITUMOR ACTIVITY OF ANTIVIRAL SUBSTANCE ISATIZON

L. Zaika[1], O. Bolsunova[1], A. Potopalskyi[2], G. Didenko[3], O. Kruts[3]

[1] Institute of Molecular Biology and Genetics, NASU, Kyiv, Ukraine
[2] Institute of Health Promotion and Rebirth of the People of Ukraine, Kyiv, Ukraine
[3] RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NASU, Kyiv, Ukraine

OPTIMIZATION OF LABORATORY EXAMINATIONS OF PROFESSIONALS EXPOSED TO IONIZING RADIATION, WITH THE AIM OF PREVENTION OF RADIATION COMPLICATIONS AND RADIOGENIC TUMORS

O. Glavin[1], E. Domina[1], V. Mikhailenko[1], L. Makovetska[1], O. Hrinchenko[1], L. Illyuchok[2]

[1] RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NASU, Kyiv, Ukraine
[2] National Cancer Institute, Kyiv, Ukraine

SYSTEM TO SUPPORT DECISION-MAKING WHEN CHOOSING CHEMOTHERAPY TACTICS FOR TREATMENT OF BREAST CANCER PATIENTS

O. Harashchenko[1], V. Antonov[2], V. Konovalenko[1]

[1] RE Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NASU, Kyiv, Ukraine
[2] National Aviation University, Kyiv, Ukraine

NO ASSOCIATION BETWEEN RS1899663 HOTAIR SINGLE NUCLEOTIDE POLYMORPHISM AND PROSTATE ADENOCARCINOMA METASTASIS IN UKRAINIAN POPULATION

Ya. Chumachenko, A. Volkohon

Sumy State University, Sumy, Ukraine

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