

# **International Symposium on Chernobyl Health Effects 2009**

**Organized by Global COE Program of Nagasaki University, Japan and  
Belarusian State Medical University**

**Dates – November 9-10, 2009**

**Venue - Belarusian State Medical University, Minsk**

## **November 9**

### **Welcome Addresses**

09:00-09:05 - Opening Remarks

*Vasily Zharko, Minister of Public Health of the Republic Belarus*

09:05-09:10 - Opening Remarks

*Pavel Besspalychuk, Rector of Belarusian State Medical University, Minsk,  
Republic of Belarus*

09:10-09:15 - Opening Remarks

*Masahiro Takagi, Vice President of Nagasaki University*

09:15-09:20 - Opening Remarks

*Kiyoshi Matsuzaki, Charge d'Affaires at interim of Japan in the Republic of  
Belarus*

09:20-09:30 - Introduction of Nagasaki Global COE Program

*Shunichi Yamashita, Leader of GlobalCOE, Dean of Nagasaki University  
Graduate School of Biomedical Sciences, Director of Atomic Bomb Disease  
Institute, Nagasaki, Japan*

### **Session 1: Genetic studies of thyroid cancer**

Chairs: *Shunichi Yamashita and Fumihiko Matsuda*

09:35-09:55 – Analysis of DNA damage response gene polymorphisms in radiation-induced and sporadic thyroid cancer

*Vladimir Saenko, Assistant Professor, Department of International Health and Radiation Research, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan*

09:55-10:15 - Genome-wide association study of radiation-induced childhood thyroid cancer using the Chernobyl cohort

*Fumihiko Matsuda, Director, Center for Genomic Medicine Kyoto University Graduate School of Medicine, Kyoto, Japan*

## **Session 2: Radiation epidemiology**

Chairs: *Yoshisada Shibata and Uladzimir Masiakin*

10:15-10:35 - Noncancer risks among Chernobyl emergency workers of Russia

*Sergey Chekin, Senior Researcher, National Radiation Epidemiology Register, Medical Radiological Research Center of RAMS, Obninsk, Russian Federation*

10:35-10:55 - Cancer in Liquidators in Belarus (1999-2008)

*Siamen Paliakou, Deputy Director for Informatics, Belarusian Center for Medical Technologies Computer Systems, Administration and Management of Health, Minsk, Republic of Belarus*

10:55-11:15 - Individual elevation of frequency of somatic cells with TCR-mutations in liquidators decades after the Chernobyl accident

*Alexander Saenko, Deputy Director of Medical Radiological Research Center of RAMS, Obninsk, Russian Federation*

11:15-11:35 - Psychological and social situation among Chernobyl children

*Nataliya Korol, WHO CO in Ukraine, NPO, Surveillance Officer, Consulter-Chief, Research Laboratory for Children Population Health, Research Center for Radiation Medicine (RCRM), Academy of Medical Science, Kiev, Ukraine*

11:35-11:55 - Effects of the Chernobyl accident on the growth of children

*Yoshisada Shibata, Global COE Professor, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan*

12:00-13:30 – Group photo and Lunch

**Session 3: Clinical and pathological features of Chernobyl thyroid cancer**

Chairs: *Yuri Demidchik and Valentina Drozd*

13:30-13:50 - Thyroid carcinomas in children and adolescents in Belarus

*Yuri Demidchik, Rector of Belarusian Medical Academy of Postgraduate Education, Minsk, Republic of Belarus*

13:50-14:10 - Clinico-morphological study of thyroid cancer detected as a result of four consecutive cycles of screening in the framework of the Ukraine-U.S. Thyroid Project

*Mykola Tronko, Director, V.P.Komissarenko Institute of Endocrinology and Metabolism, Academy of Medical Sciences of Ukraine, Kiev, Ukraine*

14:10-14:30 - Comparative morphological analysis of papillary thyroid carcinoma in dependence on radiation doses after Chernobyl accident

*Alexander Abrosimov, Head, Division of Pathomorphology Endocrine Research Center, Moscow, Russian Federation*

14:30-14:50 - Clinical features of sporadic and radiation-induced papillary thyroid cancer in children, adolescents and young adults in Russia

*Pavel Rumyantsev, Senior Scientist, Department of Radiosurgery, Medical Radiological Research Center of RAMS, Obninsk, Russian Federation*

14:50-15:10 - Histopathology of childhood thyroid cancer in Belarus

*Alexander Nerovnja, Associate Professor, Department of Pathology, Belarusian State Medical University, Minsk, Republic of Belarus*

15:10-15:30 – Coffee Break

## **Session 4: Health and demographic effects in contaminated regions**

Chairs: *Noboru Takamura and Sergey Chekin*

15:30-15:50 - Problem of demographic safety in territory of the Gomel area

*Anatol Lyzikau, Rector of Gomel State Medical University, Gomel, Republic of Belarus*

15:50-16:10 - Oncological and nononcological incidence among the affected population according to the Belarusian State Registry

*Aliaksandr Razhko, Director, Republican Research Centre for Radiation Medicine and Human Ecology, Gomel, Republic of Belarus*

16:10-16:30 - Screening effect estimation at analysis of results of thyroid diseases cohort study

*Uladzimir Masiakin, Head of Epidemiology Division Republican Research Centre for Radiation Medicine and Human Ecology, Gomel, Republic of Belarus*

16:30-16:50 - Study of the expression of cyclin genes complex in patients with various oncological diseases in Gomel region

*Yauheni Varapayeu, Head, Research Center, Gomel State Medical University, Gomel, Republic of Belarus*

18:00 -21:00 – Reception in restaurant “Genesis” (BSMU)

## **November 10**

### **Session 5: Radioecology**

Chairs: *Alexander Saenko and Siamen Paliakou*

09:30-09:50 - Radioecological, medical and biological consequences of the Chernobyl accident

*Yauheni Kanaplia, Director of Institute of Radiobiology National Academy of Sciences of Republic of Belarus, Gomel, Republic of Belarus*

09:50-10:10 - Analysis of accidents with radioactive sources in Ukraine territory over a period of last 20 years

*Olga Tarasiuk, Research Officer, The Marzeev Institute of Hygiene and Medical Ecology of the Academy of Medical Sciences of Ukraine, Kiev, Ukraine*

10:10-10:30 - Development of a novel monitoring device and system during radiation emergency

*Noboru Takamura, Professor, Head, Department of Radiation Epidemiology, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan*

## **Session 6: Endocrine diseases and patients follow-up**

Chairs: *Larisa Danilova and Pavel Rumyantsev*

10:30-10:50 - Endocrine Diseases in Post Chernobyl Period in Belarus

*Larisa Danilova, Head, Department of Endocrinology, Belarusian Medical Academy of Postgraduate Education, Minsk, Republic of Belarus*

10:50-11:10 - Prevalence of various thyroid diseases in Belarus

*Valentina Drozd, Head, Thyroid Research Group, Belarusian Medical Academy of Postgraduate Education, Minsk, Republic of Belarus*

11:10-11:30 - Current aspects in thyroid nodular disease in Belarussian patients

*Maxim Lushchyk, Senior Research Fellow, Thyroid Research Group, Belarusian Medical Academy of Postgraduate Education, Minsk, Republic of Belarus*

11:30-11:50 - Follow-up for reproductive health of patients after combination treatment of thyroid cancer

*Irina Shimanskaya, Associate Professor, Department of Dermatovenerology, Belarusian Medical Academy of Postgraduate Education, Minsk, Republic of Belarus*

12:00-13:30 - Lunch

## **Session 7: Morphological and molecular features of thyroid cancer**

Chairs: *Vladimir Saenko and Alexander Abrosimov,*

13:30-13:50 - Efficacy of Molecular Tests in Initial Diagnostics of Thyroid Nodules

*Svetlana Mankovskaya, Scientist, Institute of Physiology National Academy of Sciences of Republic of Belarus*

13:50-14:10 - Inheritable forms of medullary thyroid carcinoma in Belarus: histological, clinical and molecular association

*Pavel Kisialeu, Assistant Professor, Department of Pathology, Belarusian State Medical University, Minsk, Republic of Belarus*

14:10-14:30 - Comparative analysis of E-cadherin,  $\beta$ -catenine and CD44 at differentiated and non-differentiated thyroid cancer

*Tatiana Bich, Assistant Professor, Department of Pathology, Belarusian State Medical University, Minsk, Republic of Belarus*

14:30-14:50 - Molecular diversity of papillary thyroid carcinoma assessed by simultaneous determination of tumor clonality and somatic oncogenic mutation

*Tatiana Rogounovitch, Assistant Professor, Department of Molecular Medicine, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan*

14:50-14:55 – Closing Remarks

*Vasili Roudenok, Vice rector of Belarusian State Medical University, Minsk, Republic of Belarus*

14:55-15:00 – Closing Remarks

*Noboru Takamura, Professor, Head, Department of Radiation Epidemiology, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan*