



# **5TH BALTIC CONGRESS OF GENETICS**

**19–22 OCTOBER 2012 | KAUNAS, LITHUANIA**

**PROGRAMME AND ABSTRACTS**

**KAUNAS  
2012**

### **Organizing Committee**

Chairman: Algimantas Paulauskas

Vice-chairman: Isaak Rashal

Secretary: Vaida Tubelytė, Dace Grauda

Members of Organizing Committee:

Dace Grauda (Latvia), Maia Kivisaar (Estonia), Algirdas Sliesaravičius (Lithuania),

### **Local Organizing Committee:**

Vykintas Baublys, Sigita Bogačiovienė, Loreta Gričiuvienė, Indrė Lipatova  
Irma Pūraitė, Jana Radzijeuskaja, Aniolas Sruoga, Judita Žukauskienė

### Scientific Board:

#### *Lithuania*

- Vytautas Basys
- Dalius Butkauskas
- Zenonas Dabkevičius
- Skirmantas Kriaučionis
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- Sigutė Kuusienė
- Ilona Miceikienė
- Juozas Lazutka
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- Vytautas Rančelis
- Vytautas Ruzgas
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#### *Latvia*

- Ziedonis Grīslis
- Astrīda Krūmiņa
- Inese Kokina
- Rita Lugovska
- Jēkabs Raipulis
- Nils Rostoks
- Natalja Shkute

#### *Estonia*

- Ain Heinaru
- Kadri Järve
- Mati Koppel
- Sulev Kuuse
- Mart Viikmaa
- Haldja Viinalass
- Tiina Tamm

## **PROGRAMME**

### **2012 October 19 (Friday)**

18:00 – ..... *Arrival*  
*Wellcome party*

### **2012 October 20 (Saturday)**

08:00 – 09:00 *Registration*

#### **PLENARY SESSION 1**

Chair: Juozas Lazutka (Vilnius University, Lithuania)  
Eugenija Kupčinskienė (Vytautas Magnus University, Lithuania)

09:00 – 09:20 *Welcome*  
*Juozas Augutis, Vice-Rector for Research, Vytautas Magnus university, Lithuania.*

09:20 – 10:00 *Genetics and Baltic countries*  
*Isaak Rashal, Institute of Biology, University of Latvia, Latvia*

10:00 – 10:40 *Contribution of the Latvian geneticist Janis Lusis into the animal genetics research*  
*Raipulis Jekabs, Riga Teacher Training and Education Management Academy, Latvia*

10:40 – 11:00 **TEA/COFFEE / POSTER SESSION**

#### **ORAL SESSION 1**

Chair: Juozas Lazutka (Vilnius University, Lithuania)  
Eugenija Kupčinskienė (Vytautas Magnus University, Lithuania)

11:00 – 11:20 *Homologous recombination and mutagenic processes in Pseudomonas putida*  
*K. Tavita, K. Mikkel, R. Teras, M. Tark-Dame, H. Jerabek, J. Sidorenko, T. Juurik, H. Ilves, T. Ilmjärv, K. Ukkivi, A. Teppo, R.T. Dame, M. Kivisaar*

11:20 – 11:40 *Investigation of Borrelia genome*  
*J. Radzijeuskaja, A. Paulauskas, O. Rosef, E. Galdikaitė*

11:40 – 12:00 *Identification and phylogenetic relationships of Sarcocystis species parasitizing wild birds and mammals*  
*P.Prakas, D. Butkauskas, L. Kutkienė, A. Sruoga*

12:00 – 12:20 *Genetic and biotechnology methods for flax and hemp breeding acceleration in Latvia*  
*D. Grauda, A. Miķelsone, V. Stramkale, R. Ornicāns, N. Ļisina, K. Latiševa, I. Rashal*

12:20 – 12:40 *Development of ISSR markers in plant genetic analysis*  
*I. Pašakinskienė*

12:40 – 13:50 LUNCH

## **PLENARY SESSION 2**

Chair: Izolda Pašakinskienė (Vilnius University, Lithuania)  
Raipulis Jekabs (Riga Teacher Training and Education Management Academy, Latvia)

13:50 – 14:30

### ***Functional markers for plant architecture control***

*Gintaras Brazauskas, Lithuanian Research Centre for Agriculture and Forestry, Institute of Agriculture, Lithuania.*

## **ORAL SESSION 2:**

Chair: Izolda Pašakinskienė (Vilnius University, Lithuania)  
Raipulis Jekabs (Riga Teacher Training and Education Management Academy, Latvia)

14:30 – 14:50

### ***Copy number variation analysis of resistance genes in Scots pine***

*V. Šķipars, V. Beļeviča, B. Krivmane, D. E. Ruņģis.*

14:50 – 15:10

### ***Sucrose synthase and aquaporin-like gene expression during early wood and late wood formation in Scots pine (*Pinus sylvestris* L.), and correlation with wood density.***

*K. Kānberga-Siliņa, Ā. Jansons, D. Ruņģis.*

15:10 – 17:30

## **POSTER SESSION**

18:00 – .....

## **CONFERENCE DINNER**

## **2012 October 21 (Sunday)**

08:00 – 09:00

### ***Registration***

## **PLENARY SESSION 3**

Chair: Natalja Shkute (Daugavpils University, Latvia)  
Aniolas Sruoga (Vytautas Magnus University, Lithuania)

09:00 – 09:40

### ***Human Epigenetics in Post-Genomic Era***

*Sonata Jarmalaitė, Faculty of Natural Sciences, Vilnius University, Lithuania*

09:40 – 10:20

### ***A non-destructive DNA sampling for use in PCR analysis in animal conservation genetic***

*Natalja Shkute, Institute of Ecology, Daugavpils University, Latvia*

10:20 – 10:40

## **TEA/COFFEE / POSTER SESSION**

## **ORAL SESSION 3:**

Chair: Natalja Shkute (Daugavpils University, Latvia)  
Aniolas Sruoga (Vytautas Magnus University, Lithuania)

10:40 – 11:00

### ***Significance of thiopurine methyltransferase polymorphism in Lithuanian inflammatory bowel disease patients***

*R. Steponaitienė, M. Kasperavičienė, J. Kupčinskas, L. Jonaitis, A. Žvirblienė, G. Kiudelis, J. Skiecevičienė, L. Kupčinskas*

11:00 – 11:20

### ***The molecular basis of breast cancer metastasis***

*R. Ugenskienė, E. Juozaitytė*

- 11:20 – 11:40 **Gene polymorphisms of microRNAs in *Helicobacter pylori* induced high risk atrophic gastritis and gastric cancer**  
J. Kupčinskas, T. Wex, R. Steponaitienė, S. Juzėnas, M. Leja, G. Kiudelis, L. Jonaitis, J. Skiecevičienė, P. Malfertheiner
- 11:40 – 12:00 **Prevalence of C282Y, H63D, and S65C mutations in hereditary HFE-hemochromatosis gene in Lithuanian population**  
L. Kučinskas, S. Juzėnas, J. Šventoraitytė, R. Steponaitienė, A. Vitkauskienė, L. Kupčinskas
- 12:00 – 12:20 **Identification of retrotransposon-like sequences in *Pinus sylvestris* activated in response to stress conditions**  
A. Voronova, Ā. Jansons, D. Ruņģis
- 12:20 – 12:40 **High frequency of the c.3207C>A (p.H1069Q) mutation in ATP7B**  
L. Kučinskas, A. Vitkauskienė, V. Petrenkienė, L. Kupčinskas
- 12:40 – 13:00 **Craniofacial peculiarities in parents who have nonsyndromic cleft children**  
E. Nagle, I. Grīnfelde, D. Kažoka, B. Lāce
- 13:00 – 14:30 **LUNCH**
- ORAL SESSION 4:**  
Chair: Gintaras Brazauskas (Institute of Agriculture, Lithuania)  
Vykintas Baublys (Vytautas Magnus University, Lithuania)
- 14:30 – 14:50 **Mouse strains selected for divergent growth: a model for mapping genes underlying muscle mass**  
A. Kilikevicius, C. Meharg, R. Želnienė, L. Bünger, A. Lionikas
- 14:50 – 15:10 **Investigation into Intraspecific Genetic Diversity of Capercaillie (*Tetrao urogallus*) Population in Belarus Using Mitochondrial DNA Control Region and Microsatellite DNA Markers**  
S. Stropaitytė, D. Butkauskas, A. Sruoga, S. Švažas
- 15:10 – 15:30 **The study of genetics of freshwater animal organisms' population in Latvia**  
N. Shkute
- 15:30 – 16:00 **TEA/COFFEE / POSTER SESSION**
- PLENARY SESSION 4**  
Chair: Gintaras Brazauskas (Institute of Agriculture, Lithuania)  
Vykintas Baublys (Vytautas Magnus University, Lithuania)
- 16:00 – 16:40 **Population genetic analysis of alien species in Baltic countries**  
Algimantas Paulauskas, Faculty of Natural Science, Vytautas Magnus University, Lithuania
- 16:40 – 17:00 **Closing Remarks**
- 17:00 – 18:30 **EXCURSION to the devils' Museum**

**2012 October 22 (Monday)**

**DEPARTURE**