

## Dear colleagues,

We kindly invite you to participate at the international Conference “Genetics, Physiology and Plant Breeding” (V-th Edition), which will take place on October 23-24, 2014.

The conference is organized by the Institute of Genetics, Physiology and Plant Protection of the Academy of Science of Moldova in co-operation with the University of the Academy of Sciences of Moldova.

Venue: Central Scientific Library „A. Lupan” (Chisinau, Academiei, 5).

### Scientific Committee

**Vasile BOTNARI** – PhD habilitatus, Director of the IGPPP of the ASM, Executive Chairman

**Nicolae BALAUR** – Corresponding member, IGPPP of the ASM, Chisinau, Republic of Moldova

**Yuriy CHESNOKOV** – PhD habilitatus, Research Institute of Plant Industry, St.-Petersburg, Russia

**Mihaela CORNEANU** – PhD, professor, University of Agricultural Sciences and Veterinary Medicine of Banat, Timisoara, Romania

**Maria DUCA** – Academician, ASM University, Chisinau, Republic of Moldova

**Le Huy Ham** – PhD, professor, Institute of Agricultural Genetics, Hanoi, Vietnam

**Vasile MICU** – Academician, Institute of Crop “Porumbeni”, Pascani, Republic of Moldova

**Victor PIVOVAROV** – Academician, professor, All-Russian Research Institute for Vegetable Breeding and Seed Production, Odintsovo, Russia

**Gheorghe SISCANU** – Academician, IGPPP of the ASM, Chisinau, Republic of Moldova

**Simion TOMA** – Academician, IGPPP of the ASM, Chisinau, Republic of Moldova

**Marian VERZEA** – PhD, professor, National Agricultural Research and Development Institute, Fundulea, Romania

### Conference agenda

**23 October, 2014**

09:00 – 10:00 Registration

10:00 – 10:45 Conference opening

### Plenary session

10:45–11:00	Scientific heritage of the institute in the field of genetics, physiology and plant breeding. <b>Vasile Botnari</b> , Institute of Genetics, Physiology and Plant Protection of the ASM, Chisinau
11:00–11:20	Current situation of sunflower broomrape in the Republic of Moldova. <b>Maria DUCA</b> , University of the Academy of Science of Moldova, Chisinau
11:20–11:40	Application of MABC for improvement of rice tolerance to abiotic stresses. <b>Le Huy Ham</b> , Agricultural Genetics Institute, Hanoi, Vietnam
11:40–12:00	New hydroponic technology for vegetables: obtaining special tomato forms. <b>Irina Balashova</b> , Sergei Sirota, Elena Kozar, Oksana Mitrofanova, Viktor Pivovarov. All-Russian Research Institute for Vegetable Breeding and Seed Production (VNISSOK), Moscow, Russia
12:00–12:20	Somatic hybridization in ornamental plants. <b>Evelyn Klocke</b> . Julius Kuehn-institute, Institute for Breeding Research on Horticultural crops, Guedlinburg, Germany
12:20–12:40	Ecological and molecular-genetic QTLs mapping of agronomically valuable traits in spring wheat in different geographical regions and controlled conditions of Russia. <b>Yuriy Chesnokov</b> . Research Institute of Plant Industry, St.-Petersburg, Russia
12:40–13.00	<i>In vitro</i> conservation of genetic resources of the steno-endemic <i>Campanula romanica</i> Scientist, <b>Anca Manole</b> , Cristian Banciu. Institute of Biology Bucharest, Romania

**13:00 – 14:00 Coffee break**

**Posters visualization**

Central Hall of the Central Scientific Library „A. Lupan”

**Session I. Genetic and physiological aspects of control and improvement of adaptive and productive potential in crop plants. Principles and proceedings of increasing and quantification of genetic variability** (Small Hall of the Central Scientific Library „A. Lupan”)

**Moderators: Maria DUCA, acad., Madalin ENACHE, PhD**

14:00–14:15	Crossing-over in meiotic tomato mutants. <b>Tatiana Lisovscaia</b> , Irina Cuzmina, Larisa Cotsun. Lesya Ukrainka East European National University, Lutsk, Ukraine
14:15–14:30	Molecular analysis of <i>in vitro</i> regenerants of protected species <i>Ruscus aculeatus</i> L. <b>Cristian Banciu</b> , Anca Manole. Institute of Biology Bucharest, Romania
14:30–14.45	Impact of fertilizers with different form of nitrogen on development and nitrogen nutrition of soybean plants at initial vegetation stages. <b>Ecaterina Emnova</b> , Institute of Genetics, Physiology and Plant Protection of the ASM, Chisinau, Moldova
14:45–15:00	Histochemical approaches of walnut ( <i>Juglans regia</i> L.) embryology. <b>Maria Pinte</b> , Practical Scientific Institute of Horticulture and Food Technology, Chisinau, Moldova
15:00–15:15	Study of the main commercially valuable traits in parthenocarpic cucumber lines. <b>Tatiana Blinova</b> , Tatiana Cebanenco. Transnistrian Agricultural Research Institute, Tiraspol, Moldova
15:15–15:30	Influence of the maternal factor on productivity elements of tomatoes. <b>Sofia Grigorcea</b> , Institute of Genetics, Physiology and Plant Protection of the ASM, Chisinau, Moldova
15:30–15:40	Agro-biological characteristics of species of <i>Cuphea</i> genus under the conditions of the central zone of Moldova. <b>Victoria Mihaila</b> , Institute of Genetics, Physiology and Plant Protection of the ASM, Chisinau, Moldova
15:40–15:50	MuDR transposable elements in plant genomes. <b>Lilia Pasa</b> , Institute of Genetics, Physiology and Plant Protection of the ASM, Chisinau, Moldova
15:40–15:50	The influence of super expression of genes <i>VaCDPK13</i> , <i>VaCDPK20</i> and <i>VaCDPK21</i> on resistance of <i>Vitis amurensis</i> cell and <i>A.thaliana</i> plants to abiotic stresses. <b>Valeria Hristenco</b> , Olga Aleynova, Alexandra Dubrovina, Konstantin Kiselev. Institute of Biology and Soil Science, Far Eastern Branch of the Russian Academy of Sciences, Vladivostok, Russia

**Session II. Genetic and physiological diversity of plant genetic resources. Advanced technologies for crops cultivation and protection** (Grand Hall of the Central Scientific Library „A. Lupan”)

**Moderators: Vasile BOTNARI, PhD. hab., Elena KOZARI, PhD**

14:00–14:15	Wild crop relatives - valuable gene pool for investigations and amelioration. <b>Anatol Ganea</b> , Institute of Genetics, Physiology and Plant Protection of the ASM, Chisinau, Moldova
14:15–14:30	Improved germplasm <i>Jodent Reid</i> group for early maturity of maize. <b>Simion Musteatsa</b> . Institute of Crop “Porumbeni”, Pascani
14:30–14:40	ReGen –documentation system of plant genetic resources in the Republic of Moldova, <b>Gabirela Romanciuc</b> . Institute of Genetics, Physiology and Plant Protection of the ASM, Chisinau, Moldova
14:40–15:55	Scientific priorities in modern selection of vegetables and potatoes. <b>Nadejda Bocarnicova</b> . All-Russian Research Institute for Vegetable Breeding and Seed Production, Moscow, Russia
15:55–16:10	Biological effectiveness of herbicides with the active substance Fluroxypyr for weed combating in winter wheat. <b>Mihail Rurac</b> , Victor Burdujan. State Agrarian University of Moldova, Chisinau, Moldova
15:10–15:25	Effect of drip irrigation on the nitrates migration in soil. <b>Alexei Gumaniuc</b> , Dmitrii Gradinar, Irina Poltavenco. Transnistrian Agricultural Research Institute, Tiraspol, Moldova
15:25–15:35	Use of ecologically different quality of queen cells in the seed production of vegetable crops. <b>Anatol Zvedeniuc</b> , Violeta Cazacu, Domnica Fucedji, Andrei Jmurco. Transnistrian Agricultural Research Institute, Tiraspol, Moldova
15:35–15:50	Biological protection of crops by Trichogramma entomophage combating the lepidopteran pests. <b>Lidia Gavrilitsa</b> , Institute of Genetics, Physiology and Plant Protection of the ASM, Chisinau, Moldova
15:50–16:00	The effectiveness of biologically active substances in the technology of vegetables. <b>Iuliana Vasilaki</b> , Institute of Genetics, Physiology and Plant Protection of the ASM, Chisinau, Moldova

### DISCUSSION AND SUMMARISATION

Central Scientific Library „A. Lupan”, Grand Hall

**17:00 – 19:00 Reception. Venue: Canteen of the ASM „Crizantema”**

**24 October, 2014**

**Visiting labs**

Institute of Genetics, Physiology and Plant Protection of the ASM (Padurii, 20)  
University of the Academy of Science of Moldova (Academiei, 3/2)