

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. Vasile Botnari , 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. Maria DUCA , University of the Academy of Science of Moldova, Chisinau
11:20–11:40	Application of MABC for improvement of rice tolerance to abiotic stresses. Le Huy Ham , Agricultural Genetics Institute, Hanoi, Vietnam
11:40–12:00	New hydroponic technology for vegetables: obtaining special tomato forms. Irina Balashova , 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. Evelyn Klocke . 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. Yuriy Chesnokov . 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, Anca Manole , 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. Tatiana Lisovscaia , 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. Cristian Banciu , 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. Ecaterina Emnova , 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. Maria Pinte , 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. Tatiana Blinova , Tatiana Cebanenco. Transnistrian Agricultural Research Institute, Tiraspol, Moldova
15:15–15:30	Influence of the maternal factor on productivity elements of tomatoes. Sofia Grigorcea , 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. Victoria Mihaila , Institute of Genetics, Physiology and Plant Protection of the ASM, Chisinau, Moldova
15:40–15:50	MuDR transposable elements in plant genomes. Lilia Pasa , 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. Valeria Hristenco , 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. Anatol Ganea , 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. Simion Musteatsa . Institute of Crop “Porumbeni”, Pascani
14:30–14:40	ReGen –documentation system of plant genetic resources in the Republic of Moldova, Gabirela Romanciuc . 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. Nadejda Bocarnicova . 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. Mihail Rurac , Victor Burdujan. State Agrarian University of Moldova, Chisinau, Moldova
15:10–15:25	Effect of drip irrigation on the nitrates migration in soil. Alexei Gumaniuc , 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. Anatol Zvedeniuc , 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. Lidia Gavrilitsa , 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. Iuliana Vasilaki , 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)