

PLANT BIOLOGY

November 1, 14:10 – 16:10

Maly Donskoy Hall

Session 1

Chairs: Jiayang LI and Konstantin MIROSHNIKOV

- 20 min **Weicai YANG** *Yazhouwan National Laboratory, China*
Sperm delivery and fertilization in Arabidopsis model plant
- 20 min **Maria SAMSONOVA**¹, A. Kanapin¹, T. Rozhmina² ¹*Peter the Great Polytechnic University, St Petersburg;*
²*Federal Research Center for Bast Crops, Torzhok*
Fusarium wilt of flax: a case study of the plant–fungal interaction
- 20 min **Jianmin ZHOU** *Yazhouwan National Laboratory, China*
Anti-bacterial immunity in Arabidopsis
- 20 min **Tatyana SAVCHENKO**¹, D.N. Miroshnichenko^{1,2}, A.V. Pigolev¹, E.A. Degtyarev¹, S.V. Dolgov² ¹*Pushchino Scientific Center for Biological Research, Institute of Fundamental Problems of Biology, Russian Academy of Sciences;* ²*Branch of M.M. Shemyakin and Yu.A. Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences, Pushchino*
Genetic modification of the jasmonate system of wheat
- 20 min **Zhixi TIAN** *Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, China*
Soybean functional genomics and molecular breeding
- 20 min **Anna MAMAEVA**, I. Lyapina, D. Ganaeva, A. Knyazev, R. Azarkina, D. Kharlampieva, A. Galysh, A. Maiboroda, V. Lazarev, E. Rogozhin, I. Fesenko *Shemyakin & Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences, Moscow*
Plant peptidome is a complex and multicomponent system for balancing between the growth and stress responses

November 1, 16:30 – 18:40

Maly Donskoy Hall

Session 2

Chairs: Weicai YANG and Maria SAMSONOVA

- 20 min **Konstantin MIROSHNIKOV**, A.A. Lukianova, A.D. Tokmakova *Shemyakin & Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences, Moscow*
Phage therapy for crops: progress, problems and prospects
- 20 min **Kang CHONG** *Institute of Botany, Chinese Academy of Sciences, China*
Cold signaling network and its potential in molecular design for breeding in rice
- 20 min **Alexander STAKHEEV**, M.E. Taliansky, S.K. Zavriev *Shemyakin & Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences, Moscow*
Modern molecular technologies to combat mycotoxin producers

20 min **Jinsheng LAI** *China Agricultural University, China*

The complete telomere-to-telomere assembly of maize genome and beyond

15 min **Dmitry MIROSHNICHENKO**^{1,2}, V. Timerbaev^{1,2}, M. Divashuk², A. Pushin^{1,2}, V. Alekseeva¹, V. Degtyaryova¹, O. Shulga², M. Samarina², A. Ermolaev¹, P. Kroupin², G. Karlov², S. Dolgov^{1,2} ¹*Branch of Shemyakin and Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences, Pushchino;* ²*All-Russia Research Institute of Agricultural Biotechnology, Moscow*

Efficient targeted multiallelic genome editing of polyploid cereals

15 min **Tatiana KOZLOVA**, A.V. Kartashov, A. Krapivina, P. Zaytsev, O.B. Chivkunova, K. Skarilkina, A.E. Solovchenko *G.R. Derzhavin Tambov State University, Tambov*

The effect of exogenous phytohormones on the biosynthesis and growth parameters of microalgae: the influence of the microbiome and silver nanoparticles on the induction process

10 min **Ivan CHUDINOV**^{1,2}, A.V. Lukina-Gronskaya¹, D.A. Petukhova¹, V.D. Gremyacheva¹, A.A. Krinitsina³, M.I. Antipin³, E.V. Korneenko¹, I.O. Butenko¹, A.S. Speranskaya¹ ¹*Research Institute for Systems Biology and Medicine;* ²*Moscow Institute of Physics and Technology;* ³*Lomonosov Moscow State University, Moscow*

Proteogenomic analysis for controlling the composition of herbal mixtures

10 min **Anna VISHNEVSKAYA**, A.A. Bashilov, S.V. Osipenko, A.F. Kireev, Yu.I. Kostyukevich *Skolkovo Institute of Science and Technology, Moscow*

Analysis of biologically active metabolites of microalgae by isotope labeled methods in conjunction with chromatography-mass spectrometry

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