

BIOLOGIC SECTION

“THE IMPORTANCE OF G. GAMOW'S IDEAS FOR BIOLOGY OF THE 21ST CENTURY”

August 19 (Tuesday) Kyiv time (UTC+3 summer)

<https://us06web.zoom.us/j/2719689610?pwd=SzY2dzBZVEZCYi9tNy9Wbks5SHFrZz09>

password 3101

10:00-16:15 **Section session** (20 or 15 min for report and 5 min for discussion)

(Convener – **S.V. Chebotar**)

10.00-10.10 OPENING OF THE BIOLOGICAL SESSION *S.Chebotar*

10.10-10.30 **A. Börner** THE UTILIZATION OF GENOME-WIDE ASSOCIATION STUDIES (GWAS) FOR THE EXPLOITATION OF PLANT GENETIC RESOURCES – EXAMPLES ON WHEAT AND BARLEY

10.35-10.55, **J. Kumlehn** PROGRESS IN GENOME EDITING OF CROP PLANTS

11.00-11.20 *P. Navratilova, S. Pavlu, Z. Zhu, Z. Tulpova, O.Kopecky, N. Stein, H. Simkova* CIS-REGULATORY ELEMENTS CONTROLLING TRANSCRIPTION IN BARLEY

11.25-11.45 **I. Vaseva** CELL TYPE-SPECIFIC ATTENUATION OF ETHYLENE SIGNALING IN FUNCTIONAL STUDIES OF PLANT STRESS RESPONSES.

11.50-12.00 Coffee break

12.00 -12.15 **Yu. Tynkevich, P. Poczai, R. Volkov** GENOMIC ORGANIZATION AND EVOLUTIONARY DYNAMICS OF 5S RDNA REPEATS IN DIFFERENT SUBGENERA OF ACONITUM

12.20-12.35 **I. Mitina, A. Bahsiev, C. Grajdier, L. Tumanova, V. Mitin, K. Muller** CHANGE IN TOMATO GENE EXPRESSION UPON PHYTOPLASMA INFECTION

12.40-12.55 **A. Nucia, W. Grzelak, S. Okoń** TAKING STOCK OF HOW EFFECTIVE THE OAT RESISTANCE GENES TO POWDERY MILDEW ARE IN POLAND

13.00-13.20 **G.Chebotar** MANAGING, CURATING AND SHARING PASSPORT, PHENO- AND GENOTYPING PGR DATA TO PROMOTE AGRO-BIODIVERSITY AND ITS UTILIZATION

13.30-14.30 Lunch

14.30-14.50 *Yu. Rebets, V. Olishkevych, R. Stetsyk, B.Ostash* STREPTOMYCES VIRIDOSPORUS ATCC1462 AS A PLATFORM FOR DEVELOPMENT OF ANTIBIOTICS WITH NOVEL MODE OF ACTION

14.55-15.10 **V. Rudik**, *S. Chebotar* RESULTS OF MOLECULAR IDENTIFICATION OF SPECIES OF THE ANOPHELES MACULIPENNIS S.L. COMPLEX IN ODESA REGION

15.15-15.30 **D. Sirokha**, *A. Rayevsky, M. Khalangot, O. Gorodna, C. Mayere, S. Nef, J Jaruzelska, K. Kusz-Zamelczyk, L. Livshits* NOVEL CANDIDATE GENES FOR OLIGOGENIC 46,XY COMPLETE GONADAL DYSGENESIS

15.35-15.55 □**T. Oleksyk**, *W. Wolfsberger, O. Oleksyk, Y. Hasynets, K. Shchubelka*, GENOME□DIVERSITY□IN□UKRAINE: POPULATION AND HEALTH-RELEVANT VARIATION FROM NATION-WIDE GENOME AND WHOLE EXOME SURVEYS

16.00 -16.15 **CLOSING OF THE BIOLOGICAL SESSION**