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| **September 12th** | **WEDNESDAY** |
| **8:00-9:45** | **Registration desk is open (Cracow - Podchorążych st. no. 2)** |
| **9:45-10:00 AULA** | **Conference opening:** *Zbigniew Miszalski and Maciej T. Grzesiak* |
| **10:00-11:00** | **PLENARY SESSION 1 - Chair: Joanna Deckert (AULA)** |
| **10:00- 10:10** | *Joanna DECKERT* **“Professor Edward A. Gwóźdź - a nestor of research on plant stress biology of Poznań”** |
| **10:10- 10:50** | *Edward A. GWÓŹDŹ “***Plant Responses to the Environment: perception, communication, memory”** |
| **10:50- 11:00** | **Comments and discussion** |
| **11:00-11:15** | **COFFEE BREAK** |
| **11:15 – 14:45** | **PLENARY SESSION 2 - Chair: Janusz Zwiazek (DANEK AUD.)** |
| **11:15- 11:55** | *Paweł SOWINSKI “***Molecular mechanisms of maize response to cold”** |
| **11:55-12:35** | *Joanna DECKERT* **“The impact of cadmium on soybean - signaling, response and recovery”** *J. Deckert*,, J. Chmielowska-Bąk |
| **12:35- 14:00** | **LUNCH** |
| **14:00 – 19:00**  **DANKA AUD.** | **PLENARY SESSION 3**  **Chair: Hanna Bandurska; Balazs Barna; Władysław Filek**  **Young Scientists Competition - Oral presentations** |
| **14:00-14:15** | N. Hordyńska. **“Morphological and molecular response of wheat (*Triticum aestivum*) to drought stress at different temperature”.**Natalia Hordyńska, Maciej T. Grzesiak, Stanisław Grzesiak, Magdalena Szechyńska-Hebda |
| **14:15-14:30** | A.A.Egorova. **“Genetic control of resistance to golden potato cyst nematode *Globodera rostochiensis* in potato plants *Solanum phureja “*** A.A. Egorova, N.A. Shmakov, S.V. Gerasimova, G.V. Vasilyev, N.V. Shatskaya, K.V. Strygina, D.A. Afonnikov, A.V. Kochetov |
| **14:30-14:45** | ­M. Hornyák. **Influence of environmental factors on seed yield of common buckwheat (*Fagopyrum esculentum* Moench).** M. Hornyák, A. Słomka, P. Kopeć, M. Dziurka, K. Sychta, F. Dubert, J. Pastuszak, A. Płażek |
| **14:45-15:00** | M. Kovalenko. **The chitinase and 1,3-β-glucanase activity of wheat (*Triticum aestivum* L.) and emmer (*Triticum dicoccum* Schrank ex Schübl.) under osmotic stress.** M. Kovalenko, Z. Gregorová, I. Matušíková |
| **15:00-15:15** | J. Nawrocka. **Involvement of reactive oxygen species (ROS), reactive nitrogen species (RNS) and volatile organic compounds (VOC) in induction of cucumber resistance by *Trichoderma atroviride* TRS25 against disease caused by *Rhizoctonia solani.*** J. Nawrocka, K. Szymczak, A. Gromek, M. Szczech, U. Małolepsza |
| **15:15-15:30** | N.S. Repkina. **Wheat response to cadmium under normal, low and high temperatures.** N.S. Repkina, A.A. Ignatenko, V.V. Talanova |
| **15:30-15:45** | **COFFEE BREAK** |
| **15:45-16:00** | M.Skwarek. **Involvement of reactive nitrogen species (RNS) and volatile organic compounds (VOC) emission in *Quercus robur* L. leaves against biotrophic pathogen (*Erysiphe alphitoides*) infection** M.Skwarek, K. Szymczak, A. Witczak, J. Patykowski |
| **16:00-16:15** | K. Sychta,**Zinc and lead accumulation in suspended cells of metallicolous and non-metallicolous *Viola* species and metal distribution in cell structures.** Klaudia Sychta, Aneta Słomka, Szymon Suski, Elżbieta Kuta |
| **16:15-16:30** | O.S. Sinenko **Acclimation reactions of barley mesophyll cells to short-term temperature stress: ontogenetic aspect** O.S. Sinenko, M.G. Maleva, D. Latowski, I.S. Kiseleva, K. Strzałka |
| **16:30-16:45** | A. Woźniak.**The influence of lead on generation of signaling molecules and accumulation of flavonoids in pea seedlings in response to pea aphid infestation.** A. Woźniak, K. Drzewiecka, J. Kęsy, Ł. Marczak, Waldemar Bednarsk, Renata Rucińska-Sobkowiak, I. Morkunas. |
| **16:45-17:00** | K. Zieliński. **Programmed cell death (PCD) and androgenesis induction in rye (*Secale ereal* L.).** K. Zieliński, M. Krzewska, A. Nowicka, K. Juzoń, I. Żur, E. Dubas |
| **17:00-17-15** | N. Klajn **The effect of drought on the expression of genes regulating the seed filling phase (PKL, ABI3) in yellow lupine (Lupinus luteus).** W. Wojciechowski, P. Glazińska, J. Kęsy |
| **17:15-17:30** | P. Staszek **Induction of oxidative stress as canavanine indirect mode of action.** U. Krasuska, A. Gniazdowska |
| **17:30 – 19:00**  **AULA** | **POSTER SESSION „A” Poster number from 1 to 43**  **Young Scientists Competition - Poster presentations** |

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| **September 13th** | **THURSDAY** | |
| **8:00-9:45**  **AULA** | **POSTER SESSION “B”**  **Poster number from 44 to 74** | |
| **DANEK AUD.** | **PLENARY SESSION 4**  **Chair: (Maria Müller/Ulrich Luttge)** | |
| **9:20-10:00** | *Ulrich LÜTTGE* **“Environmental Stress: Avoidance, Adaptation and Acclimation by Plants in the Dynamics of Vegetation Islands on Sand Plains”** | |
| **10:00-10:40** | *Hanna BANDURSKA.* **Plant resistance to abiotic stress factors. What does it mean today?**  *H. Bandurska*, M. Kozłowska | |
| **10:40- 11:20** | *Janusz J. ZWIAZEK.* **Role of aquaporins in plant responses to root hypoxia** *J.J. Zwiazek*,, X. Tan, H. Xu, S. Khan, M.A. Equiza, S.H. Lee, M. Vaziriyeganeh | |
| **11:20:11:35** | **COFFEE BREAK** | |
| **11:35- 12:15** | *Peter. HEDDEN.* **The role of hormone signaling in plant responses to soil drying: focus on gibberellin.** E. Colebrook, M. Coelho Filho, Y. Li, D. Lloyd, S. Thomas, A. Phillips, W. R. Whalley, *P. Hedden* | |
| **12:15- 12:55** | *Fulai LIU***. Modulation of stomatal response by elevated atmospheric CO2 concentration in plants under drought stress.**  *Fulai Liu* | |
| **12:55 – 13:35** | *Xiangnan LI***. Induction of cold tolerance by priming and stress memory in crops.** *Xiangnan Li*, Fengbin Song, Fulai Liu, Xingyuan He | |
| **13:35- 14:35** | **LUNCH** | |
| **14:45-15:15** | **TIME FOR SPONSORS** | |
|  | **SESSION 5A (AULA)**  **Chair: Marian Saniewski** | **SESSION 5B (Danek Aud.)**  **Chair: Fulai Liu** |
| **15:15- 15:30** | *C. M. Correia* et al. **Salicylic acid increases drought adaptability of olive trees by changes on redox status and ionome** | *A. Nosalewicz* at al.. **Plant response to drought and accompanied abiotic stresses** |
| **15:30-15:45** | *M.Dziurka* et al. **Hormonal control of thermal induction of flowering in winter wheat: Can one catch them all?** | A. *Nowicka* at al*.* **Chemically-induced DNA de-methylation modify the effectiveness of androgenesis in isolated microspore cultures of winter triticale (×*Triticosecale* Wittm.).** |
| **15:45-16:00** | *E. Niewiadomska.***Effects of tocopherol deficiency on photosynthetic electron transport under low light** | *M.Paterska* at al.**The profile of volatile compounds in leaves of *Aesculus* individuals differing in susceptibility to *Cameraria ohridella* Deschka&Dimić** |
| **16:00-16:15** | *P. Kopeć* et al. **Changes in the barley leaf proteome during drought stress** | *E. Pers-Kamczyc.***Transcriptome analysis of female and male *Taxus* *baccata* L. under different nutritional regimes** |
| **16:15-16:30** | **COFFEE BREAK** | |
| **16:30-16:45** | *P. Kaszycki* at al.. **The response of selected macrophytes to chromate stress: proteomic studies** | *P. Robakowski* at al. **Regulated water deficit in forest nurseries.** |
| **16:45-17:00** | *A. Kostecka-Gugała*. **Electrophoretic protein profiling of *Mesembryanthemum crystallinum* under environmental stress** | *M.D.H.J. Senavirathna.* **The electric potential of *Nicotiana Benthamiana* affected by microwave exposure** |
| **17:00-17:15** | *H.Malinska* at al*.* ***Miscanthus x giganteus* in marginal soils, stress response and biomass production in context of genetic features** | Ł.Wojtyla at al. **Seed priming as a strategy to overcame abiotic stresses during germination** |
| **17:15- 17-30** | *H. Eskandari* at al.**Ultrastructural Changes of *In Vitro* Regenerated Salt-Stressed Potato Calli and Antioxidant Roles of Rosmarinic Acid in Stress Tolerance Mechanisms** | *K.M. Tokarz*at al**. Response of *Plumbago zeylanica* L. to Pb in *in-vitro*: physiological study** |
| **20:00** | **CONFERENCE DINNER**  **Hawełka Restorant- Main Square (Rynek Główny) 34** | |

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| **September 14th** | **FRIDAY** |
| **8:00-9:45**  **AULA** | **POSTER SESSION “C”**  **Poster number from 75 to 104** |
| **DANEK AUD.** | **PLENARY SESSION 6**  **Chair: Maciej T. Grzesiak /Peter Hedden** |
| **9:45-10:25** | *Balazs BARNA.* **The effect of senescence or juvenility of plants on their resistance/tolerance to pathogens.** |
| **10:25- 11:05** | *Marie MULLER*. **Compartment specific distribution of glutathione and ascorbate and their dynamic changes in plants under different environmental conditions.** G. Zellnig, B. Zechmann |
| **11:05- 11:45** | *Wojciech BĄBA.* **Chlorophyll *a* Fluorescence: Past–Present–Future.** H.M. Kalaji,  A. Kompała –Bąba |
| **11:45- 12:00** | **COFFEE BREAK** |
| **12:00- 12:40** | *Kenji YAMADA*. **Brassicaceae plants specifically developed chemical defense system based on ER bodies.** |
| **12:40-13:20** | *Shino GOTO-YAMADA*. **The quality control mechanisms on plant peroxisomes.** K. Oikawa, K. Sieńko, S. Mano, M. Nishimura, K.Yamada |
| **13:20- 14:00** | **PLENARY SESSION 7**  **Chairs: Zbigniew Miszalski & Maciej T. Grzesiak**  **Closing of the conference**  **General discussion and comments’**  **Young Scientist Awards** |
| **14:00 – 15:00** | **LUNCH** |