



17-23 вересня у Львівському національному університеті імені Івана Франка відбудеться III Міжнародний симпозіум “Внутрішньоклітинна сигналізація та розробка біологічно активних молекул”.

Відкриття: 18.09.2012 о 14.00 в Актівій залі Університету.

Пленарні та секційні засідання відбудуться 19, 20, 21 вересня на біологічному факультеті.

Запрошуємо усіх бажаючих!

Programme

Monday, September 17th

10.00–18.00 Arrival and Registration at hotel “Lviv”

14.00–18.00 City walk

Tuesday, September 18th

Ivan Franko National University of Lviv (IFNUL) main building; Universitetska Srt., 1

10.00–14.00 Registration at Ivan Franko National University of Lviv

14.00–14.30 Opening Ceremony at Historic conference hall

Welcome address:

Valery P. Kukhar, Academician NAS of Ukraine, Head of the State Fund for Fundamental Researches of Ukraine

Ivan O. Vakarchuk, Prof., President of Ivan Franko National University of Lviv

Bogdan Y. Kotur, Prof.

Volodymyr S. Kravets, Prof.

Plenary lectures

Moderators: Valery Kukhar, Bogdan Kotur

14.30–15.15 **Hitoshi Sakakibara, Tokunaga H., Kiba T., Kojima M.**,

Yokohama, Japan How the *log*-dependent cytokinin activation is important for

plant growth and development?

15.15–16.00 *Coffee break*

16.00–16.45 **Guo L., Li M., Xuemin Wang, Saint Louis, USA**

Lipid signaling: Connecting stress cues to metabolic and physiological

response 16.45–17.30 **Vladimir Khripach, Zhabinskii V.N., Litvinovskaya R.P., Minsk, Belarus**

Practical applications of brassinosteroids: a way that offers a challenge

18.00 Welcome party

Wednesday, September 19th

IFNUL biology faculty building; Hrushevskogo Str., 4

Plenary lecture

Moderators: Hitoshi Sakakibara, Prakash Kumar

9.30–10.15 **Georgy Romanov, Moscow, Russia** Studies of cytokinin receptors: from *in vitro* to *in planta* and *vice versa*

Lecture hall "B"

Symposium Session 1B: Cytokinin signaling and application in biotechnology

Moderators: Hitoshi Sakakibara, Georgy Romanov, Prakash Kumar

10.15–10.50 **Verma V., Oruganti V., Anand G., Sivaraman J., Prakash P.**

Kumar, Singapore Interaction studies of cytokinin signaling proteins AHP1 and ARR4

10.50–11.20 **Lukaš Spichal, Olomouc, Czech Republic** Chemical regulation of cytokinin status - potential applications in biotechnology and agriculture

11.20–11.50 **Anica Amini, Andreu F., Glevarec G., Rideau M. and Creche J., New Brunswick, USA** Role of cytokinins on the regulation of monoterpene indole alkaloids biosynthesis in *Catharanthus roseus* cell suspension cultures

11.50–12.20 *Coffee break*

Moderators: Lukaš Spichal, Anica Amini,

12.20–12.40 **Guzel Kudoyarova, Vysotskaya L.B., Akhiyarova G.R.,**

Veselov S.Y., Ufa, Russia Cytokinin content in cells of different zones of wheat roots

12.40–13.00 **Sergey Lomin, Wulfetange K., Yonekura-Sakakibara K.,**

Sakakibara H., Heyl A., Schmulling T., Romanov G.A., Moscow, Russia

Subcellular localization of arabidopsis and maize cytokinin receptors

13.00–13.15 **Dmitry Krivosheev, Getman I.A., Romanov G.A., Moscow,**

Russia N⁶-(benzyloxymethyl)adenosine is an antagonist of cytokinin receptor CRE1/AHK4 of *Arabidopsis*

13.15–14.10 *Lunch Break*

Symposium Session 2B: Role of hormones, protein kinases/phosphatases and cytoskeleton in signal transduction

Moderators: Igor Volotovskiy, Andriy Vovk,

14.10–14.40 **Andriy Vovk, Kyiv, Ukraine** Cell signaling and phosphatases as

possible

targets for synthetic compounds

14.40–15.10 **Talanova V.V., Topchieva L.V., Natalia Repkina, Titov A.F.,**

Petrozavodsk, Russia

Hormone effect on the protease genes expression

15.10–15.30 **Sigal Savaldi-Goldstein, Haifa, Israel** Understanding coherent root growth through cell type-specific activity of brassinosteroids

15.30–16.20 *Coffee break, Poster session*

Moderators: Pavel Karpov, Eliezer Lifschitz

16.20–16.35 **Fedina E.O., Salnikov V.V., Karimova F.G.** *Kazan, Russia*

The role of 24-epibrassinolide in pea leaf senescence

16.35 – 16.55 **Pavel Karpov, Sheremet Ya.A., Raevsky A.V., Yemets A.I., Blume Ya.B.**, *Kyiv, Ukraine* Casein kinases CKL6 and CK1D as important factors of plant microtubule regulation

16.55–17.20 **Natalia Petrova, Karimova F.G.**, *Kazan, Russia* Changes in tyrosine phosphorylation of some regulatory proteins by oxidative stress

17.20–17.50 **Victor Martynyuk, Tseyslyer Yu.V., Tsymbalyuk O.V., Shelyuk O.V., Nurishenko N.E.**, *Kyiv, Ukraine* Modification of functional state of muscle tissue upon influence of extremely low frequency electromagnetic field

18.00–19.00 Poster session

20.00–22.00 Attending performance at Lviv Opera theatre

Lecture hall “C”

Symposium Session 3C: Analysis of synthetic compound activity and application in living

systems (parallel session 2B)

Moderators: Oleg Kolodiazhnyi, Roman Lesyk

14.10–14.40 **Oleg Kolodiazhnyi**, *Kyiv, Ukraine* Methods of biocatalysis in molecular design and synthesis of new bioactive compounds

14.40–15.10 **Roman Lesyk, Zimenkovsky B., Kaminsky D., Kryshchyshyn A., Havryluk D., Subtel'na I., Atamanyuk D., Roman O., Zelisko N.**, *Lviv, Ukraine* Thiazolidinone and related heterocyclic systems in anticancer agents discovery

15.10–15.30 **Stepan Pilyo, Kornienko A.N., Kozachenko A.P., Prokopenko V.M., Shablykin O.V., Brovarets V.S.** *Kyiv, Ukraine* Synthesis and properties of new 4,5-difunctionally substituted 1,3-oxazoles

15.30–16.10 *Coffee break*

Moderators: Roman Lesyk, Oleh Devinyak

16.10–16.40 **Oleh Devinyak, Zimenkovsky B., Lesyk R.**, *Uzhgorod, Ukraine* Identification of the possible pharmacophore responsible for 4-thiazolidinones anticancer activity

16.40–17.10 **Olena Mitlenko, Zhygadlo E.Y., Sharapa D.I., Gayday A.V., Levandovskiy I.A., Shubina T.E.**, *Kyiv, Ukraine*

Preparation and transformations of *D*₃-trishomocubane tertiary derivatives.

17.10–17.40 **Alexandr Vasilenko, Turov K.V., Zybrev V.S., Brovarets V.S.**, *Kyiv, Ukraine* Study of anticancer activity of sulfonyl derivatives of 1,3-thiasole

17.40–18.10 **Natalia Finiuk, Zinchuk N., Romanyuk N., Terek O., Mitina N., Zaichenko O., Stoika R.**, *Lviv, Ukraine*

Toxicological studies of novel DMAEM-containing nanoparticles

18.10–19.00 Poster session

20.00–22.00 Attending performance at Lviv Opera theatre

Thursday, September 20th

IFNUL biology faculty building; Hrushevskogo Str., 4

Plenary lectures

Moderators: Christian Hardtke, Victor Martynyuk

9.30–10.15 **Christian S. Hardtke**, *Lausanne, Switzerland* A vertical case of Systems Biology

10.15–11.00 **Igor Volotovskiy**, *Minsk, Belarus* Calcium signaling in plant cell. Relation to other mediator systems

11.00–11.30 **Eliezer Lifschitz**, *Haifa, Israel* Florigen systemic signaling

11.30–12.00 *Coffee break*

Symposium Session 4B: Lipid signaling and stress responses

Moderators: Xuemin Wang, Volodymyr Kravets

12.00–12.30 **Jan Martinec, Kocourkova D., Pejchar P., Brouzdova J., Kravets V., Pokotylo I., Krckova Z., Valentova O., Prague, Czech Republic** The role of non-specific phospholipase C in plant response to environmental stresses

12.30–13.00 **Eric Ruelland, Delage E., Puyaubert J., Sasek M., Zachowski A., Paris, France** Roles of phosphoinositides in the signalling of cold or salicylic acid in *Arabidopsis thaliana*

13.00–14.30 *Lunch Break*

14.30–15.00 **Volodymyr Kravets, Kyiv, Ukraine** Lipid signaling in plants

Symposium Session 5B: Salicylic acid and other stress hormones signaling

Moderators: Eric Ruelland, Olga Valentova

15.00–15.20 **Kalachova Tetiana, Kyiv, Ukraine** Role of salicylic acid in RbohD mediated stomata movement

15.20–16.10 **Janda M., Šašek V., Matoušková J., Burketova L., Olga Valentova, Prague, Czech Republic** Salicylic acid signalling in Arabidopsis is mediated by phospholipase D

16.10–16.40 **Alevtina Egorova, Yakovleva V.G., Tarchevsky I.A., Kazan, Russia** Effect of methyl jasmonate on dicot rice and monocot pea root proteomes

16.40–18.00 *Poster session*

18.00–19.00 *Poster discussion session* Moderators: Vladimir Khripach, Mykola Obushak, Georgy Romanov

19.30–22.00 *Gala dinner*

Friday, September 21st

IFNUL biology faculty building; Hrushevskogo Str., 4

Lecture hall “B”

Symposium Session 6B: Plant cell metabolism and growth regulation

Moderators: Olga Terek, Alevtina Egorova, Elena Garmash

9.30–9.50 **Elena Garmash, Dymova O.V., Malyshev R.V., Grabelnykh O.I., Borovik O.A., Khristin M.S., Plyusnina S.V., Kokovkina E.V., Voinikov V.K., Golovko T.K., Syktyvkar, Russia** Light regulation of mitochondrial and chloroplast energy-dissipating systems activity during de-etiolation of wheat seedlings

9.50–10.20 **Vladyslava Kovalska, Losytskyy M.Yu. and Yarmoluk S.M., Kyiv, Ukraine** Fluorescent cyanine dyes for protein aggregation analysis

10.20–10.50 *Coffee break*

Lecture hall “A”

Symposium Session 7A: Characteristics of cell signaling and hormonal regulation in animal systems

Moderators: Lyudmila Drobot, Oleksandr Shkrabak

10.50–11.20 **Samoylenko A., Kozlova N., Byts N., Ponomarenko O., Pasichnyk H., Bazalii A., Geraschenko D., Vorotnikov A., Kietzmann T., Lyudmila Drobot, Kyiv, Ukraine** The adaptor protein Ruk/CIN85 acts as key signaling integrator of plasmogen activation system in breast adenocarcinoma cells

11.20–11.45 **Oleksandr Shkrabak, Veklich T., Bevza O., Cherenok S.,**

Rodik R., Kalchenko V., Kosterin S., Kyiv, Ukraine N₊,K⁺-ATP-ase of myometrium cell plasma membrane and calixarenes

11.45–12.15 Symposium closing ceremony

12.15–13.45 *Lunch Break*

14.00–18.00 Excursion

Saturday, September 22nd

10.00–16.00 Excursion

Sunday, September 23^d

Departure