

Scientific Council of Biochemistry of RAS
Biochemical Society under RAS

Society of Biotechnologists of Russia named after Y. A. Ovchinnikov

Institute of Biology of Komi SciCentre of UrD of RAS

Timiryazev Institute of Plant Physiology of RAS

Research Center for Preventive and Clinical Nutrition of Tyumen SciCentre
of RAMS

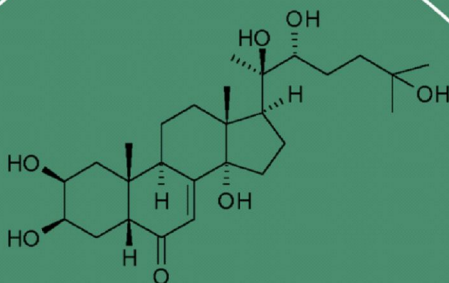
PROGRAM

Second International Workshop on

Phytoecdysteroids

July 4-7, 2010

Syktvykar, Republic of Komi, Russia



Syktvykar 2010

Arrival of participants



Monday, July 5, 2010

- 9:00 – 9:30 Registration (Institute of Biology, KomiSci Centre, UrD RAS)
9:30 – 10:30 Opening Ceremony
- Scientific session** *Chairpersons: Dr. Anatoly Taskaev, Prof. Rene Lafont, Prof. Vladimir Volodin*
- 10:30 – 10:50 **Prof. Vera Martynenko**
(Institute of Biology, Komi Science Centre, Ural Division, Russian Academy of Sciences, Syktyvkar, Russia)
Botanical and geographical characteristics of the territory of the Republic of Komi
- 10:50 – 11:10 **Prof. Vladimir Volodin**
(Institute of Biology, Komi Science Centre, Ural Division, Russian Academy of Sciences, Syktyvkar, Russia)
Studies of phytoecdysteroids in the Institute of Biology
- 11:10 – 11:45 **Prof. Rene Lafont**
(Universite Pierre et Marie Curie, Paris, France)
Recent data on the mechanism of action of phytoecdysteroids on mammals
- 11:45 – 12:20 **Dr. Laurence Dinan**
(Weymouth College, Weymouth, United Kingdom)
Ecdysteroids and plant-animal interactions
- 12:20 – 12:35 **Coffee break**
- Scientific session** *Chairpersons: Dr. Laurence Dinan, Dr. Ivan Chadin*
- 12:35 – 13:05 **Prof. Vladimir Syrov**
(Institute of Chemistry of Plant Substances, Ac. of Sci, Rep. of Uzbekistan, Tashkent, Rep. of Uzbekistan)
Phytoecdysteroids as natural regulators of adaptive processes in the organism of the higher animals
- 13:05 – 13:25 **Dr. Zainab Hushbaktova**
(Institute of Chemistry of Plant Substances, Ac. of Sci, Rep. of Uzbekistan, Tashkent, Rep. of Uzbekistan)
Comparative estimation of the antioxidant properties of ecdysteroids and steroid hormones of the higher animals in the experiments *in vitro* and *in vivo*

- 13:25 – 13:45 **Dr. Svetlana Osipova**
(*Institute of Epidemiology, Microbiology and Infectious Diseases of the Ministry of Public Health of Republic of Uzbekistan*)
Prospects of the application of phytoecdysteroids as the antiparasitic preparations
- 14:00 -15:00 **Lunch**
- Scientific session* **Chairpersons: Prof. Jean-Pierre Gurault, Prof. Zainab Hushbaktova**
- 15:00 – 15:20 **Prof. Karel Slama**
(*Institute of Entomology, Prague, Czech Republic*)
The effects of ecdysteroids in plants, vertebrates and in human medicine
- 15:20 – 15:40 **Prof. Liudmila Andreeva**
(*Military Medical Academy, Saint Petersburg, Russia*)
Heat shock proteins 70 as a criteria of adaptogenic action of plant preparations
- 15:40 – 15:55 **Prof. Valentina Prosheva**
(*Institute of Physiology, Komi Sci Centre, Ural Division, RAS, Syktyvkar, Russia*)
The influence of ecdysteroid fraction of *Serratula coronata* on trans-membrane ionic currents of snail neurons
- 15:55 – 16:15 **Prof. Alevtina Kudyasheva**
(*Institute of Biology, Komi Sci Centre, Ural Division, RAS, Syktyvkar, Russia*)
Study of the anti-ray properties of the ecdysteroid-containing substance Serpisten during chronic irradiation in the small doses
- 16:15 – 16:35 **Prof. Sergey Mataev, Dr., Tatjana Vasilkova**
(*Research Center of preventive and therapeutic feeding, TyumSC, Siberian Division of RAMS, Russia, Tyumen, Russia*)
(the title to be announced)

- 16:35 – 16:55 **Dr. Nelly Moyseenko**
(Syktyvkar State University, Syktyvkar, Russia)
Hematoprotective and stimulating effects of ecdystroid containing preparation Serpesten
- 17:00 – 17:15 **Coffee break**
- 17:15 -18:00 **Meeting of Komi Branch of Russian Botanical Society**
Scientific paper
- Dr. Maria Teresa Fernandez Piedade**
(National Institute of Amazonian Research (INPA),
Manaus, Brazil)
Brazilian Amazonian floodplain forests: distribution, ecological and ecophysiological aspects
- 18-15:20-00 **Evening tour through the city and surroundings**

Tuesday, July 6, 2010

- Scientific session** **Chairpersons: Prof. Alexander Nosov, Prof. Vladimir Syrov**
- 9:00 - 9:30 **Prof. Jean-Pierre Girault**
(Universite Rene Descartes, CNRS)
NMR of ecdysteroids, recent advances
- 9:30 -9:50 **Prof. Alexander Nosov**
(Institute of Plant Physiology of Russian Academy of Sciences,
Moscow, Russia)
Particularities of secondary metabolism in cell cultures of higher plants
- 9:50 – 10:10 **Prof. Nurmurod Sheralievich Ramazanov**
(Institute of Chemistry of Plant Substances, Ac. of Sci, Rep. of Uzbekistan, Tashkent, Rep. of Uzbekistan)
Phytoecdysteroids of the plants of Central Asia: structure, the chemical transformation

- 10:10 – 10:30 **Dr. Rubens Piedade**
(INPA, Manaus, Brazil)
Ecdysteroids in Amazonia plants
- 10:30 – 10:45 **Erling Fjelldal**
(Bioforsk Svanhovd, Svanvik, Norway)
Phytoecdysteroides in cultivated Norwegian *Silene tatarica*
- 10:45 – 11:00 **Dr. Anna Vorobyeva**
(Amur branch of Far East Division of Russian Academy of Sciences, Blagoveshchenk, Russia)
Phytoecdysteroids of the genera *Serratula* and *Rhaponticum* of the East Asia
- 11:00 – 11:15 **Coffee break**
- 11:15 – 12:15 **Scientific Excursions**
- Scientific session** **Chairpersons: Prof. Nurmurod Sheralievich Ramazanov, Prof. Lyudmila Andreeva,**
- 12:15 – 12:30 **Dr. Sergey Pestov**
(Institute of Biology, Komi Science Centre, Ural Division, Russian Academy of Sciences, Syktyvkar, Russia)
Consortive connections of ecdysteroid-containing plants of *Serratula coronata* (Asteraceae)
- 12:30 – 12:45 **Halina Zhylitskaya**
(Institute of Bioorganic Chemistry of NAS of Republic of Belarus, Minsk, Belarus)
Synthesis and transformations of isoxazolinyl derivatives of ecdysteroids
- 12:45 – 13:00 **Dr. Rimma Savchenko**
(Institute of Petrochemistry and Catalysis, Russian of Academy of Sciences, Ufa)
Synthesis and the antioxidant activity of the bis-adduct of 20-hydroxyecdysone with the analog of vitamin E

- 13:00 – 13:15 **Dr. Ilgiz Galyautdinov**
(*Institute of Petrochemistry and Catalysis, Russian Academy of Sciences, Ufa*)
Molecular rearrangement of oxethane-ecdysteroids
- 13:15 – 13:30 **Dr. Michael Torlopov**
(*Institute of Chemistry, Komi Science Centre, Ural division, RAS, Syktyvkar, Russia*)
Study of the possibilities of using the high-molecular compounds for the transportation of phytoecdysteroids in the biological media
- 13:30 – 13:45 **Coffee break**
- Reserve presentation** **Prof. Valery Makarov**
(*Inter-regional Centre “Adaptogen”, Saint Petersburg, Russia*)
Anti-diabetic and hypolipidemic preparation Serpisten
- 13:45 – 14:30 **Final discussion** **Chairperson Prof. Rene Lafont**
- 15:00 **Conference banquet**

POSTER SESSION

1. **Yana Urazaeva** (*Institute of Petrochemistry and Catalysis, Russian Academy of Sciences, Ufa*)
New effective method of the hydrogenation of ecdysteroids in the synthesis of the analogs of brassinosteroids
2. **Nilufar Mamadalieva** (*Institute of the Chemistry of Plant Substances of Academy of Sciences of Republic of Uzbekistan, Tashkent, Republic of Uzbekistan*)
Two minor phytoecdysteroids of *Silene viridiflora*
3. **Ludmila Alekseeva** (*Institute of Biology, Komi Science Centre, Ural Division, Russian Academy of Sciences, Syktyvkar, Russia*)
Effect of exogenous sitosterol on the biosynthesis of ecdysteroids in cell culture of *Ajuga reptans* L.

4. **Martins A, Toth N, Molnar J, Hohmann J, Bathori M, Hunyadi A.** (*University of Szeged, Institute of Pharmacognosy, Szeged, Hungary*)

Ecdysteroid derivatives as new modulators of resistance on multi-drug resistant cancer cells

5. **Tatyana Shirshova** (*Institute of Biology, Komi Science Centre, Ural Division, Russian Academy of Sciences, Syktyvkar, Russia*)

Anti-microbial activity of phytoecdysteroids

6. **Nurmurodov Sheralievich Ramazanov** (*Institute of Chemistry of Plant Substances, Ac. of Sci, Rep. of Uzbekistan, Tashkent, Rep. of Uzbekistan*)

Experimental study of the immuno-stimulating action of phytoecdysteroids

7. **Yana Pylina, Svetlana Volodina, Vladimir Volodin** (*Institute of Biology, Komi Science Centre, Ural Division, Russian Academy of Sciences, Syktyvkar, Russia*)

Ecdysteroids in wild and cultivated plants of *Serratula quinquefolia*

8. **Kirill Ufimtsev** (*Institute of Biology, Komi Science Centre, Ural Division, Russian Academy of Sciences, Syktyvkar, Russia*)

Effects of ingested phytoecdysteroids on the larvae of different polyphagous insects

9. **Dmitry Shadrin, Yana Pylina, Vladimir Volodin** (*Institute of Biology, Komi Science Centre, Ural Division, Russian Academy of Sciences, Syktyvkar, Russia*)

Distribution of ecdysteroids in Asteraceae plants (molecular phylogenetic approach)

10. **Petrova Nataly** (*Syktyvkar State University, Syktyvkar, Russia*)

Stress-protective action of ecdysteroid-containing preparation Serpisten

11. **Valentina Vetosheva, Svetlana Volodina, Vladimir Volodin** (*Syktyvkar State University, Syktyvkar, Russia; Institute of Biology*)

Effect of Serpisten on memory productivity of the patients with organic alterations of brain coronary vessels



PROGRAM COMMITTEE

Prof. Alexander A. Boldyrev, (Moscow, Russia)

Prof. Vladimir V. Volodin, (Syktyvkar, Russia)

Prof. Laurence Dinan, (Weymouth, UK)

Prof. Rene Lafont, (Paris, France)

Prof. Sergey I. Mataev, (Tyumen, Russia)

Dr. Inger Martinussen, (Tromso, Norway)

Prof. Alexander M. Nosov, (Moscow, Russia)

Prof. Vladimir N. Syrov, (Tashkent, Uzbekistan)

ORGANIZING COMMITTEE

Chairman: Dr. Anatoly Taskaev, Director of the Institute of Biology,
Komi SciCentre UrD, RAS

Co-Chairmen: Prof. Rene Lafont

Co-Chairmen: Prof. Vladimir Volodin

Executive secretary: Dr. Ivan Chadin, Vice-Director of the Institute of Biology, Komi
SciCentre, UrD, RAS

Members:

Dr. Svetlana Volodina (Institute of Biology, Komi SciCentre UrD, RAS, Syktyvkar, Russia),

Mr. Oleg Zhilin (Company "Komibiofarm", Syktyvkar, Russia),

Mr. Dmitry Shadrin (Institute of Biology, Komi SciCentre UrD, RAS, Syktyvkar, Russia),

Ms. Yana Pylina (Institute of Biology, Komi SciCentre UrD, RAS, Syktyvkar, Russia),

Mr. Vasily Startsev (Institute of Biology, Komi SciCentre UrD, RAS, Syktyvkar, Russia),

Ms. Yulia Glyad (Institute of Biology, Komi SciCentre UrD, RAS, Syktyvkar, Russia),

Conference Secretariat

28, Kommunisticheskaya St, 167982 Syktyvkar, Republic of Komi, Russia

Institute of Biology of Komi Science Centre of Ural Division of RAS

Tel / Fax: +7 (8212) 431-431

E-mail: volodina@ib.komisc.ru

URL: <http://ib.komisc.ru/add/conf/phytoecdys>

