



**Ministry of Agriculture of Russian Federation
Federal State-Financed Educational Institution of Higher Professional Education
“Saratov State Agrarian University
named after N.I. Vavilov”**



International Scientific Conference 2014

Biotechnology: Relevant Problems and Outlooks

December 1-3, 2014

The main target of the conference is a demonstration of the possibilities and prospects for further biological technologies` development and the creation of competitive products for bioindustry. The conference will bring together regional, national and international experts in the field of biotechnology. Conference sessions will include general sessions, round-table conference, show room, international research paper competition and youth forum.

The Conference will be held under the aegis of Association for European Life Sciences Universities (ICA).

Forum focus

Development of integrated scientific platform for effective cooperation between agricultural producers and consumers of biotechnological industry, organization of regional and international biotechnological programs and bio clusters.

Expected outcomes

- Demonstration of the research and development results,
- Strengthening of international and trans-regional cooperation in the field of biotechnology
- Establishment of partnership between participants of the conference, developers of the perspective biotechnologies and consumers as well,
- Implementation of the most competitive innovative developments into production.

Target audience

Developers of high technologies, manufacturers, business owners, leaders of livestock enterprises, representatives of state and educational structures, mass media. The government officials of Russian Federation will be invited as honorary guests. Scientists of leading higher education institutions from Russian Federation, Belarus, Germany and India will take part at the conference.

Session 1: Agricultural and food biotechnologies

The following areas will be presented at the section:

- development and efficiency of feed additives of biotechnological origin for non-productive and productive animals;
- biotechnological aspects of reproduction of cattle, marker selection in animal husbandry;
- modern biotechnological aspects of food production;
- obtaining and study of the properties of biologically active substances derived from cultures of micro-and macromycetes, bacteria and plant materials;
- influence of biologically active substances of microbial origin on metabolism of plant organisms;
- modern methods of analysis of raw materials of plant origin, the development of biopesticides.

Session 2: Veterinary and medicine biotechnologies

The following areas will be presented at the section:

- receiving and evaluating the effectiveness and quality of vaccines, diagnostic kits, probiotics, synbiotics, immunobiological drugs, diagnostic sera, antibacterial drugs;
- improvement of techniques in the field of PCR diagnostics;
- mechanism of action of microbial toxins with dysbacterioses in animals;
- characteristics of a specialized collection of micromycetes - biodeterioration agents;

- biocontrol of foodborne infections;
- biological synthesis of nanoparticles of chemical nature by macromycete cultures;
- designing human habitats;
- clinical biophotonics and optical biopsy.

Section 3: Environmental aspects of biotechnology and environmental protection

The following areas will be presented at the section:

- biodegradation of xenobiotics;
- use of biosorbents for extracting pesticides from drinks, demetallisation of fluids;
- characterization of microorganisms in soils, contaminated by pesticides;
- biotechnological methods of increasing the sustainability of agricultural and ornamental plants to stressful environmental factors;
- biological and biomembrane methods of wastewater treatment technology in industry;
- biological methods of evaluation the toxicity of nanomaterials;
- production of biodiesel;
- method of disinfection of surfaces by ultrasound and excilamp UV radiation.

Outline programme

Monday, December 01, 2014

09.00 - 10.00 Registration

10.00 - 10.10 Opening of the Conference (events hall)

10.10 - 12.00 Plenary meeting (events hall)

12.00 - 12.30 Coffee break (free of charge)

12.30 - 14.30 Sections, round table meeting

Section 1. Biotechnology in agriculture and food production (auditorium 5)

Section 2. Biotechnology in veterinary and human medicine (dissertation hall)

Section 3. Environmental aspects of biotechnology and environmental protection (events hall)

Roundtable meeting «Modern biotechnologies in agribusiness»(reference room)

14.30 - 15.30 Lunch

15.30 - 18.00 Sections work

18.00 - 20.00 Dinner

December 1-3, 2014

Ist Exhibition-forum «Saratov BIO – 2014», lobby of dissertation hall

Tuesday, December 02, 2014 года

09.00 - 10.00

Section 1. Biotechnology in agriculture and food production (auditorium 5)

Section 2. Biotechnology in veterinary and human medicine (dissertation hall)

10.00 - 10.30 Coffee break (free of charge)

10.30 - 11.45 *Section 1. Biotechnology in agriculture and food production (auditorium 5)*

10.30 - 12.15 *Section 2. Biotechnology in veterinary and human medicine (dissertation hall)*

9.00 - 12.00 Ist International competition of research paper among students, bachelors and masters specialty «Biotechnology», post-graduate students and young scholars (reference room)

12.00 - 12.30 Coffee break

12.30 - 16.00 Ist International competition of research paper among students, bachelors and masters specialty «Biotechnology», post-graduate students and young scholars (continuation), reference room

14.00 - 15.00 Lunch

15.00 - 16.00 Final meeting, progress review of the conference (dissertation hall)

Wednesday, December 03, 2014

9.00 - 12.00 Ist International competition of students`, bachelors` and masters` research papers, specialty «Biotechnology», post-graduate students and young scholars (reference room).

12.00 - 12.30 Coffee break (free of charge)

13.00 - 17.00 III Youth forum for students of schools, colleges, lyceums and training colleges «Russia-2020: young people is a base of country development»,

quiz «Biotechnology is a science of future» within a framework of the Youth forum (reference room).

13.00 - 14.00 Final meeting. Progress review of the conference, awarding (dissertation hall).

Registration online

Registration is now open at the website: <http://www.sgau.ru/international-conference-biotechnology-relevant-pr/registration>

For more information, please, contact Dr Olga Larionova,

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