

PROGRAM

**IX All-Russian Scientific Conference of Students and Postgraduates with
international participation
« YOUNG PHARMACY - POTENTIAL OF THE FUTURE ».**

22 of April 2019.

10.30 – 16.30 STUDENT SECTIONS
(presentations duration - 7 min)

Section 1. Technologies of direct synthesis for the production of active pharmaceutical substances.

Departments: organic chemistry, chemical technology of drugs, physical and colloid chemistry.

Session on April 22, 2019 from 10.30 to 13.00 , room 30

- Study of the synthesis, structure, properties and biological activity of N-, O- and S-containing heterocyclic compounds.
- Derivatives of alginic acid in the chemical modification of biologically active substances.
- Improving purification methods for pharmaceutical substances.
- Synthesis and biological activity of salicylamide new halogen derivatives of.
- Microreactor technology in obtaining active pharmaceutical substances.

Master-class by “PHARMASYNTEZ” JSC-Conference General Sponsor
Master-class by “BIOCAD” company -Conference Sponsor

Section 2. Mathematical modeling in Life Science.

Departments: physical and colloid chemistry, SEC of physics and biophysics, higher mathematics and computer science.

Session on April 22, 2019 from 10.30 to 13.00 , room 27

Section 3. Modern approaches to assessing drug quality and standardization of natural and synthetic origin.

Departments: analytical chemistry, pharmaceutical chemistry, immunobiotechnology.

Session on April 22, 2019 from 14.00 to 16.30, room 31

- Pharmaceutical standard compounds: basic creation vectors, problems and their solutions.

- Approaches to identifying counterfeit and falsified pharmaceutical products.
- Chemical and toxicological studies.
- Improving the quality control methods of enzyme and immunobiological preparations.
- Questions about the standardization of drugs and active pharmaceutical substances.

**Presentation by “VEROPHARM” (Abbott group) –Conference Sponsor
Zheltvay A.I., Quality Control Director**

Section 4. Actual directions of new drug creation.

Departments: industrial technology of drugs, processes and devices of chemical technology.

Session on April 22, 2019 from 10.30 to 13.00 , room 33

- Drugs with directional and modified release.
- Personalized medicine: extemporal medicinal products for pediatric practice.
- Current trends in quality assurance in the production of medicines.
- Calculation, design and optimization of equipment for the pharmaceutical industry. Stepwise process control.

Master-class by “BIOCAD” company -Conference Sponsor

Section 5. Additive technologies in pharmacy

Laboratory of Additive Technologies

Session on April 22, 2019 from 13.00 to 16.30, room 27

- Development and modeling of equipment for research and production using additive technologies.
- Technology of hot extrusion in pharmaceutical production.
- Materials of additive technology for the pharmaceutical industry.

Presentation by “PHARMASYNTEZ” JSC-Conference General Sponsor

Section 6. Personalized medicine: extemporal drugs.

Department: technology of drug forms.

Session on April 22, 2019 from 10.30 to 13.00 , room 26

- Development issues of extemporal drugs for pediatric practice;
 - Biopharmaceutical approaches to drug development.
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Section 7. Perfumes and cosmetics with active pharmaceutical ingredients and dietary supplements: issues of development, standardization and registration.

Session on April 22, 2019 from 14.00 to 16.30, room 33

Departments: industrial drug technology, pharmaceutical chemistry, management and economics of pharmacy.

- Modern approaches to the development of medical and cosmetic products and biologically active food supplements;
 - Quality control of medical and cosmetic products and dietary supplements. Regulatory issues.
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Section 8. Biotechnological substances and preparations: development and production.

Departments: biotechnology, biochemistry, immunobiotechnology

Session on April 22, 2019 from 10.30 to 13.00, room 23

- Technologies of isolation and purification of biotechnological active pharmaceutical substances from various sources of raw materials.
 - Development issues of biotechnological, enzyme and immunobiological preparations.
 - Production and quality control of vaccines for the prevention of influenza and hemophilic infections.
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Section 9. Molecular and cellular biology in the pharmaceutical industry.

Scientific and Educational Center for Molecular and Cellular Technologies (SEC MCT)

Session on April 22, 2019 from 14.00 to 16.30, room 26

- Cell technologies (cell biology, regenerative medicine, cell models of research, biomedical cell products, mammalian cells, as producers of biologically active substances).
- Proteins and peptides as promising targets and therapeutic agents.
- Molecular mechanisms of pathological processes.

- Fundamental and applied aspects of molecular genetics.

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Section 10. Preclinical studies of substances of synthetic and natural origin, modeling of pathological conditions in vivo.

Departments: pharmacology and clinical pharmacology, microbiology. The center of experimental pharmacology.

Session on April 22, 2019 from 14.00 to 16.30, room 37

- Screening preclinical studies of new substances of synthetic and natural origin.
 - Simulation of pathological conditions to assess the effectiveness of drugs.
 - Search for new pharmacological substances with neuro-and acto-protective action.
 - Pharmacotherapy of chronic heart failure carbohydrate and fat exchange disorders.
 - Antimicrobial activity of new synthetic compounds and biologically active metabolites of microbial origin.
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Section 11. Investigation of the state, main trends and problems for the development of the Russian pharmaceutical industry.

Department: Management and Economics of Pharmacy.

Session on April 22, 2019 from 10.30 to 13.00 room 37

- Pharmacoeconomics and health technology assessment. Marketing of medicinal and cosmetic products.
 - Multi-vector analysis of the Russian pharmaceutical market and development of regulatory models for individual segments.
 - Development of a methodology for making strategic decisions in the field of pricing in the pharmaceutical market.
 - Risk management of investment activities in the field of pharmaceutical production.
 - Development of a social responsibility management strategy in the pharmacy business.
 - Analysis of the pharmacoeconomic aspects of the treatment and prevention of socially significant nosologies.
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Section 12. Organizational, economic and legal problems of the development of the Russian pharmaceutical industry.

Department: Economics and Management.

Session on April 22, 2019 from 10.30 to 13.00, room 29

Section 13. Humanitarian problems of science and pharmaceutical education.

Department: Social and Humanitarian disciplines

Session on April 22, 2019 from 10.30 to 13.00, room 30

- Development of pharmacy in Russia and in countries of Asia, Africa and Europe.
 - History of pharmaceutical education in Russia.
 - Actual problems of bioethics.
 - Psychological and pedagogical aspects of modern pharmaceutical education.
 - Social ecology.
 - Social-philosophical and ethical problems of modern science.
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Section 14. Pharmaceutical substances of plant origin: development, analysis, standardization.

Departments: pharmacognosy, industrial technology of drugs, analytical chemistry, pharmaceutical chemistry.

Session on April 22, 2019 from 10.30 to 13.00, room 31

Section 15. Experimental and theoretical studies of heterogeneous systems of natural and synthetic origin.

Departments: Physical and Colloid Chemistry, SEC of Physics and Biophysics

Session on April 22, 2019 from 14.00 to 16.30, room 29

- processes of self-organization and increase in the stability of disperse systems.
 - development of new experimental research methods in molecular biophysics.
 - modification of the physico-chemical properties of composite materials for medical and pharmaceutical purposes.
 - development of diagnostic systems for test systems using biomacromolecules.
 - kinetics and thermodynamics of processes in supramolecular and submolecular systems.
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17:00 – 19:00 SECTIONAL MEETINGS, ROUND TABLES, SEMINARS AND MASTER-CLASSES

(subjects and content of master classes and seminars currently under agreement)

“Specialised pre-University pharmaceutical education: experimental and theoretical studies”

Session on April 22, 2019 from 17.00 to 19.00 ,room 23

"COLLOQUE INTERNATIONAL"

Thematic abstract reports in foreign languages of students of the Faculty of Foreign Students of SPCPU

Session on April 22, 2019 from 17.00 to 19.00 ,room 33

"PHARM_CLASS!" (PRE-UNIVERSITY PHARMACEUTICAL TRAINING)

Session on April 22, 2019 from 17.00 to 19.00, room 30

“Legal protection of drugs as intellectual property and current issues by medical law”.

Session on April 22, 2019 from 5 pm to 7 pm, room 29

“Engineering design for the pharmaceutical industry”

ASKON, CADFEM (Ansys), Autocad, Nanocad, ChemCAD

Session April 22, 2019 from 5 pm to 7 pm, room 31

The Russian-Finnish Center for Life Sciences will host a round table "Foresight of the labor market in the field of pharmaceuticals: the future of the labor market and the education system in the field of pharmaceuticals."

Date and time will be specified.

**Presentation by “VEROPHARM” (Abbott group) –Conference Sponsor
Daniel Khazanov, Director of Production at Volginsky
Olga Nikulova, HR Director**

Master –class by SERVIER Company –Conference Sponsor

April,22 2019, 17.00-19.00, room 29