

**3 APRIL,  
2019**

# Pharmacy and Pharmacology

The reports presented at the Pharmacy and Pharmacology section will cover pharmaceutical dosage forms, drug delivery systems, phytopharmacy, clinical and social pharmacy.

The section will be introduced by two Czech professors from Charles University Faculty of Pharmacy in Hradec Králové. First report by the **Head of the Department of Pharmaceutical Technology Assoc. Prof. Zdenka Šklubalová** will focus on solid dosage forms with emphasis on flowability of powder particles. Next, **Assist. Prof. Barbora Vraníková** will present her study titled "Preformulation studies of liquisolid systems: optimization of carrier/coating material ratio". The section will be concluded by **Chairman of the Board of JSC Grindeks (Latvian pharmaceutical**

**company) Juris Bundulis**, who will report on the challenges in the development of pharmaceutical industry.

In the Phytopharmacy section of the conference program, **Assoc. Prof. Nijole Savickiene from Lithuanian University of Health Sciences** will give a speech on the interdisciplinary approach in phytopharmaceutical research.

In the afternoon section of Clinical Pharmacy, **Canadian Professor Ingrid Sketris from Dalhousie University** will share her experience in rational drug use by introducing new initiatives in one of Canadian provinces to address the problem of antimicrobial drug resistance.

Promising doctoral (PhD) studies are also included in the conference program.

**Pharmacist Elita Poplavska:** Research Week serves as a platform to stimulate interdisciplinary cooperation

## Close-up of pharmacist Elita Poplavska



**Assistant Professor Elita Poplavska**, who is also Head of the Department of Dosage Form Technology at the Faculty of Pharmacy at RSU, views that future pharmacists should also learn social pharmacy and improve their communication skills. Patients will benefit from an emphasis on interdisciplinary studies in the education of pharmacists. Similarly, Elita's research activities are also aimed at the patient as the beneficiary. As leading researcher at the RSU Institute of Public Health, Elita focuses on the availability of medicines.

### – Why do I conduct research?

Although my involvement in pharmacy seemed to be a natural progression, I had never dreamed of an academic career in my field. I was led to it by people whom I met during my studies. At a conference in Poland, I met colleagues from USA, among them Linda Strand, a professor emerita of the University of Minnesota, who not only encouraged me to try to pursue doctoral studies in USA, but was also the supervisor of my doctoral thesis. In USA, I also found my research focus, which continues to excite me – the social aspects of the use of medicines. This field is highly interdisciplinary.

### – Why will I attend the RSU international scientific conference?

It is already clear that the subsection titled *Clinical and Social Pharmacy* in the Pharmacy section of the RSU Scientific Conference will be very interesting. I am particularly looking forward to the presentation by Ingrid Sketris, guest lecturer from Canada, because her research focus is the rational use of

medicines, improvement of pharmaceutical care in hospitals and primary healthcare.

I plan to present two reports. In the Pharmacy section, together with my colleagues Marija Čeha and Ieva Salmane-Kulikovska, I will present a study about market analysis of generic medicine in Latvia – trends in action policy and the availability of medicines. Also, at the University Pedagogy Thematic Conference "Students in the Role of Researchers", together with my colleagues Nora Jansone-Ratinika and Rudite Koka, I will speak about our experience with the study course Social Pharmacy and Pharmaceutical Care, where we made significant improvements in the last year and introduced new study methods to help students prepare better for OSCE (Objective Structured Clinical Examination) which reveals a student's competence in consulting a patient. During the entire process we evaluated how successfully we have managed to develop these competences among students.

### – Why should you attend the conference?

First of all, research requires discussion and constructive criticism; therefore, every important international scientific conference is very significant. Secondly, very often we don't even realise, how much is happening in science at RSU or in Latvia. At the conference, participants will have the opportunity to find out about all current research directions in one place, meet colleagues from other structural units and propose ideas for cooperation – which could also be interdisciplinary – and may lead to new grant applications, international publications.

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# Pharmacy and Pharmacology PROGRAM

**9.10 – 11.00 Moderators: Baiba Maurina and Konstantins Logviss**

<b>9.10 – 9.35</b>	Zdenka Sklupalova (Czech Republic).	Fractal aspects of pharmaceutical powders' flow.
<b>9.35 – 9.50</b>	Barbora Vranikova (Czech Republic).	Preformulation studies of liquisolid systems: optimization of carrier/coating material ratio.
<b>9.50 – 10.05</b>	Juris Bundulis (Latvia).	Challenges in the development of the pharmaceutical industry.
<b>10.05 – 10.30</b>	Nijole Savickiene (Lithuania).	Peculiarities and advantages of an interdisciplinary approach to science.
<b>10.30 – 10.45</b>	Inga Sīle, Edita Romāne, Sanita Reinsone, Dace Tirzite, Maija Dambrova (Latvia).	The use of ethnomedicinal plants in the Latvian-populated territory.
<b>10.45 – 11.00</b>	Agnese Brangule, Pēteris Tretjakovs (Latvia).	Use of innovative spectroscopy methods and chemometrics for rapid authentication of herbals.

**11.00 – 11.30 Coffee break**
**11.30 – 14.00 Moderators: Dace Bandere and Ingrid Sketris**

<b>11.30 – 11.55</b>	Ingrid Sketris (Canada).	Improving Prescribing and Medicines Use: Approaches from Nova Scotia, Canada related to Antimicrobials.
<b>11.55 – 12.10</b>	Aleksandra Aitullina, Angelika Krūmiņa, Simons Svirskis, Santa Purviņa (Latvia).	Incidence of colistin induced acute kidney injury in patients with different renal functional states.
<b>12.10 – 12.25</b>	Aurima Stankuniene, Gintare Macionyte, Jurga Bernatoniene (Lithuania).	Conflict management skills among Lithuanian pharmacists.
<b>12.25 – 12.40</b>	Kristine Karklina, Inga Urtāne, Aivars Lejnieks (Latvia).	Analysis of factors affecting statin therapy undergoing planned percutaneous coronary intervention.
<b>12.40-12.55</b>	Agnese Prilina, Aleksandra Aitullina, Larisa Umnova (Latvia).	Anticoagulant use patterns in patients with pulmonary embolism in Latvian hospital.
<b>12.55 – 13.10</b>	Irēna Mirzajanova, Juris Pokrotnieks, Santa Purviņa (Latvia).	Therapy related adverse drug reactions in patients with inflammatory bowel diseases (IBD).
<b>13.10 – 13.25</b>	Lasma Kite, Inga Urtane, Pavels Sudmalis (Latvia).	Proportion change of approved and off label used oncological medicinal products during clinical studies.
<b>13.25 – 13.40</b>	Reinis Vilskersts, Melita Videja, Ludmila Jackevica, Daina Zicane, Andis Melderis, Rudolfs Belaunieks, Maija Dambrova, Maris Turks (Latvia).	Search for novel treatment for rare cancers.

**13.40 – 14.00 Discussion.**
**14.00 – 15.00 Break**