

**Ural Branch  
of the Russian Academy  
of Sciences**



Ekaterinburg • 2019



United Nations  
Educational, Scientific  
and Cultural Organization



International Year  
of the Periodic Table  
of Chemical Elements

# MedChem Russia 2019

4th Russian Conference  
on Medicinal Chemistry  
with international participants

**JUNE 10-14**

Ekaterinburg, Russia

**Program**

|                    |   |                 |        |
|--------------------|---|-----------------|--------|
| Dubrovskaya E. S.  | The effect of phenylsulfanyl (selenyl) derivatives of natural sesquiterpene lactones on the survival of neuroblastoma SK-N-MS cells under the toxic effect of hydrogen peroxide | <b>MCh-3-04</b> | 1 этаж |
| Dzyurkevich M.S.   | Drug development for the treatment of epilepsy  | <b>MCh-3-05</b> | 1 этаж |
| Fedorova I.V.      | Synthesis and biological activity of analogues of natural prenylphenols   | <b>MCh-3-06</b> | 1 этаж |
| Filimonov A.S.     | The design of new usnic acid derivatives as Tdp1 inhibitors   | <b>MCh-3-07</b> | 1 этаж |
| Gur'eva Y.         | Chiral palladium complexes with terpene ligands: synthesis and biological activity  | <b>MCh-3-08</b> | 1 этаж |
| Khomenko T.        | Novel biologically active monoterpene-containing substituted coumarins  | <b>MCh-3-09</b> | 1 этаж |
| Koval'skaya A.     | Ligands of Sig1R on the basis of quinolizidine alkaloid (-)-cytisine  | <b>MCh-3-10</b> | 1 этаж |
| Kuranov S.         | Conjugates of phenylpropanoic acid and terpenoids as potential FFA1 agonists  | <b>MCh-3-11</b> | 1 этаж |
| Mozhaitsev E.S.    | Synthesis of amides and thioamides combining adamantane and monoterpene fragments   | <b>MCh-3-12</b> | 1 этаж |
| Nizova             | Synthesis and Study of Psychotropic Activity of 1-Substituted 4-Amino-5-oxoprolines   | <b>MCh-3-13</b> | 1 этаж |
| Novoselov Anton M. | Synthesis of macrocyclic ketones as potential precursors for antitumor drugs  | <b>MCh-3-14</b> | 1 этаж |
| Oslovsky V.E.      | Antienteroviral activity of N6-substituted adenosines   | <b>MCh-3-15</b> | 1 этаж |
| Patrushev S.S.     | Heck reaction of sesquiterpene lactones with halogen-substituted quinolines. Synthesis and biological activity of 13-quinolinyleudesmanolides                                   | <b>MCh-3-16</b> | 1 этаж |
| Petrova A.V.       | N-propargylation of indolo-triterpenoids and their application in Mannich reaction  | <b>MCh-3-17</b> | 1 этаж |
| Petrova A.V.       | Synthesis and antidiabetic activity of $\beta$ -sitosterol derivatives  | <b>MCh-3-18</b> | 1 этаж |
| Petrova A.V.       | Synthesis and cytotoxicity of A-azepanodammaradiene   | <b>MCh-3-19</b> | 1 этаж |
| Petrova I.M.       | The assessment of 1,2,3-triazolo[5,1-b]1,3,4-thiadiazines stimulating action on skin fibroblasts synthetic activity during regeneration caused by burn injury                   | <b>MCh-3-20</b> | 1 этаж |
| Petrova P.         | Inhibitors of flu virus A (H1N1) reproduction on the basis of natural and synthetical 2-pyridones   | <b>MCh-3-21</b> | 1 этаж |
| Ponomarev K.Yu.    | Synthesis of di- and triazaadamantane derivatives containing monoterpene fragments  | <b>MCh-3-22</b> | 1 этаж |
| Popova S.A.        | New 4-methyl-2H-chromen-2-one derivatives with terpene substitutes: Synthesis and biological evaluation   | <b>MCh-3-23</b> | 1 этаж |
| Pugachev M.        | Synthesis and antitumor activity of pyridoxine-based saccharumoside-B mimetics  | <b>MCh-3-24</b> | 1 этаж |
| Pukhov S.          | Arteannuin B aminoderivatives inhibit the growth of various cancer cell lines   | <b>MCh-3-25</b> | 1 этаж |
| Puzyrev I.         | Chitosan derivatives: between nutrition and drug  | <b>MCh-3-26</b> | 1 этаж |
| Semenova M.        | New nitrogen-containing ursolic acid heterocycles with thiol group: synthesis and biological activity   | <b>MCh-3-27</b> | 1 этаж |
| Shirokova E.       | Berberine derivatives as Tdp1 inhibitors  | <b>MCh-3-28</b> | 1 этаж |

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|-------------------|--|-----------------|--------|
| Shtyrlin N.       | Synthesis, antibacterial and antitumor activity of quaternary ammonium salts of pyridoxine functionalized 2-amino-6-sulfanylpuridine-3,5-dicarbonitriles or pentaerythritol ethers | <b>MCh-3-29</b> | 1 этаж |
| Smolyaninov I.    | Sterically hindered catechol thioethers: synthesis, electrochemistry, antioxidant and cryoprotective activities  | <b>MCh-3-30</b> | 1 этаж |
| Tutushkina A.V.   | Urocanic acid derivatives as novel cytotoxic agents  | <b>MCh-3-31</b> | 1 этаж |
| Zakharenko A.     | TDP 1 Inhibitors as Potential Antitumor Drugs  | <b>MCh-3-32</b> | 1 этаж |
| Zakharenkova S.   | New C (6) -derivatives of the natural phaeosphaeride A   | <b>MCh-3-33</b> | 1 этаж |
| Zakharenko A.     | TDP 1 Inhibitors as Potential Antitumor Drugs  | <b>MCh-3-34</b> | 1 этаж |
| Alexandrova Yu.R. | New derivatives of hydroxamic acids as highly effective antioxidants   | <b>MCh-4-01</b> | 1 этаж |
| Appazova D.T.     | CONSENSUS PREDICTION OF ACUTE TOXICITY OF RAGE RECEPTOR INHIBITORS   | <b>MCh-4-02</b> | 1 этаж |
| Bezsonova E.N.    | Synthesis and biological evaluation of 3- arylidene 2-oxindole derivatives as new agents for treatment of diabetes mellitus  | <b>MCh-4-03</b> | 1 этаж |
| Boytsova E. L.    | STUDY OF THE STRUCTURE AND PROPERTIES OF PERSPECTIVE MEDICAL MATERIALS BASED ON Ti-O-N SYSTEM  | <b>MCh-4-04</b> | 1 этаж |
| Deeva O.A.        | Design, synthesis and the pharmacological properties study of the novel dipeptide TSPO ligand  | <b>MCh-4-05</b> | 1 этаж |
| Drozd K.V.        | Thermodynamics of formation of 4-aminobenzoic acid multi-component crystals  | <b>MCh-4-06</b> | 1 этаж |
| Efremov A.M.      | New express microwave-assisted synthesis of substituted 3-hydroxy-2-oxindoles for antiglaucomic drug discovery   | <b>MCh-4-07</b> | 1 этаж |
| Emelianov V.V.    | Study of antioxidant activity of substituted 1,3,4-6H-thiadiazines   | <b>MCh-4-08</b> | 1 этаж |
| Gopin A.          | Sonosensitizing effect of phthalocyanine derivatives   | <b>MCh-4-09</b> | 1 этаж |
| Khamidullina L.   | Copper(II) complexes of fluorinated diketone ligands: synthesis and biological evaluation as potential antitumor drugs   | <b>MCh-4-10</b> | 1 этаж |
| Khrol D.          | Targeted Search for Small Molecule Inhibitors of p53-MDM2 Protein Interaction  | <b>MCh-4-11</b> | 1 этаж |
| Kovaleva N.V.     | Conjugates of tacrine and its cyclic homologues with p-toluenesulfonamide as novel cholinesterase inhibitors and antiaggregants  | <b>MCh-4-12</b> | 1 этаж |
| Lavrova A.V.      | Targeted drug delivery to dopaminergic neurons by the functionalized derivative of the dopamine transporter inhibitor GBR12909: a proof of concept                                 | <b>MCh-4-13</b> | 1 этаж |
| Manin A.N.        | A novel acetazolamide cocrystal  | <b>MCh-4-14</b> | 1 этаж |
| Nikolaev A.       | Evaluation of the prospects for the combined use of ultrasound and ionizing radiation in the cancer therapy  | <b>MCh-4-15</b> | 1 этаж |
| Panina E.         | Key factors for the effectiveness of cooperation between the pharmaceutical industry and academic institutions in drug discovery and development.                                  | <b>MCh-4-16</b> | 1 этаж |
| Podrugina T.A.    | New analogs of carboplatin as the basis for the structural design of compounds with high antitumor activity  | <b>MCh-4-17</b> | 1 этаж |