



ADVANCES IN SYNTHESIS AND COMPLEXING

**The Fourth International Scientific Conference
“Advances in Synthesis and Complexing”**

PROGRAM

Moscow, RUDN University

24-28 April 2017



ADVANCES IN SYNTHESIS AND COMPLEXING

24 April, MONDAY.

Arrival of participants.

15.00 – 19-00 Registration

(Ordgonikidze st. 3, Science Faculty, RUDN University, room 102).

Attention! The entrance in RUDN University facilities is possible only with a passport!



ADVANCES IN SYNTHESIS AND COMPLEXING

25 April, TUESDAY

PLENARY LECTURES

SECTION OF ORGANIC CHEMISTRY

9.00 - 10.00 Registration (Ordgonikidze st. 3, room 102).

10.00 - 13.00 Plenary lectures

13.15 - 14.15 Lunch

15.00 - 18.00 The first German-Russian interdisciplinary Student Workshop: “Nanoscale interdisciplinary research: physics, chemistry, biology, mathematics” (Miklukho-Maklaya st. 6, Main Building)

19.00 – 21.00 Get-together party

(Ordgonikidze st. 3, Club)

10.00-10.10	Leonid G. Voskressensky (Dean of the Science Faculty)	Greetings
10.15-10.55	Valentine P. Ananikov (Zelinsky IOC, Russia)	Dynamic phenomena in catalytic transformations: influence on efficiency and selectivity
11.00-11.40	Vladimir N. Gevorgyan (University of Illinois at Chicago, USA)	Development of Novel C–H Functionalization Methodologies
11.45-12.15	Frédéric Lamaty (Institut des Biomolécules Max Mousseron, France)	Mechanochemistry : a powerful sustainable approach in organic and organometallic synthesis
	<i>(Departure to G-RISC workshop, for participants of the workshop only)</i>	
12.20-13.00	Gromov Sergey Panteleimonovich (Photochemistry Center of the RAS)	Photoactive supramolecular devices and machines based on unsaturated and macrocyclic compounds
13.00-14.00	<i>Lunch</i>	
14.00-14.10	<i>Sponsor Presentation 1</i>	
14.10-14.30	Lipeeva Alla Viktorovna (N. N. Vorozhtsov Novosibirsk Institute of Organic Chemistry)	Synthesis of 3-amino and 3- alkynylcoumarins from peucedanin
14.35-14.45	Kozlov Mikhail Aleksandrovich (N. D. Zelinsky Institute of Organic Chemistry of RAS)	Synthesis of phosphoryl-substituted azaheterocycles using hydrazides of phosphorylthioformic acid
14.45-14.55	Nosova Emiliy Vladimirovna (Ural Federal University)	New quinazoline derivatives as perspective components for optical materials



ADVANCES IN SYNTHESIS AND COMPLEXING

14.55-15.05	Dorokhov Valentin Sergeevich (N. D. Zelinsky Institute of Organic Chemistry of RAS)	Design and stereoselective synthesis of novel highly potent phosphodiesterase 4B inhibitors
15.05-15.15	Serkova Olga Sergeevna (Moscow State University of Education)	Acylation of resorcinarene with N,N-dimethylcarbamoyl and N,N-dimethylthiocarbamoyl chlorides. Factors determining the reaction performance
15.15-15.25	Kletskov Alexey Viktorovich (Institute of Physical Organic Chemistry Nat. Acad. Sci. Belarus)	New Pd(II) and Ni(II) complexes with 5-aryisoxazole ligands: synthesis and catalytic activity in cross-coupling reactions
15.25-15.35	Mulina Olga Mikhailovna (Zelinsky Institute of Organic Chemistry of RAS)	Oxidative coupling of sulfonyl hydrazides under the action of electric current
15.35-15.45	<i>Sponsor Presentation 2</i>	
15.45-16.50	<i>Coffee-Break. Poster Session</i>	
16.50-17.00	Mulina Olga Mikhailovna (Zelinsky Institute of Organic Chemistry of RAS)	Oxidative coupling of sulfonyl hydrazides under the action of electric current
17.00-17.10	Guk Dmitry Alexandrovich (Lomonosov Moscow State University)	Binuclear coordination compounds of Cu (II), (I) on the basis of 2-thioxo-tetrahydro-4H-imidazole-4-one: a modification to stabilize Cu 1+ valence state in physiological fluids
17.10-17.20	Malinnikov Vladislav Mikhailovich (Lomonosov Moscow State University)	Synthesis and biological evaluation of doxorubicin-albutoin and paclitaxel-albutoin twin drugs
17.20-17.30	Sirakanyan Samvel Napoleon (Institute of Fine Organic Chemistry, Armenia)	Studies in the field of new rearrangement in the series of 7-benzyl-2,7-naphthyridine derivatives
17.30-17.40	Dashyan Shushanik Shamir (Institute of Fine Organic Chemistry, Armenia)	Synthesis of derivatives of new heterocyclic systems - pyrano[3,4-c][1,2,4]triazolo[4,3-a]pyridines
19.00	Party	



ADVANCES IN SYNTHESIS AND COMPLEXING
26 April, WEDNESDAY

9.00 - 11.00 Plenary lectures (Ordgonikidze st. 3, club).

13.00 - 14.00 Lunch

16.30 - 17.30 Poster session

(Ordgonikidze st. 3, Club)

9.00-9.40	Andrei V. Malkov (Loughborough University, UK)	Catalytic Stereoselective Formation of C-C and C-N Bonds in Target-Oriented Synthesis
9.45-10.25	Ahmad Shaabani (Shahid Beheshti University, Iran)	Isocyanide based multicomponent reactions in Iran
10.30-11.10	Jef De Brabander (University of Texas Southwestern Medical Center, USA)	Natural Products: An Opportunity for Discovery
11.10-11.40	<i>Coffee-Break</i>	
11.40-12.00	Maslivets Andrey Nikolaevitch (Perm state university)	New method for in situ generation of enolateiminium 1,4-dipoles for [4 + 4], [4 + 2] and [4 + 1] dipolar heterocycloaddition reactions
12.05-12.25	Dubinina Tatiana Valentinovna (M. V. Lomonosov Moscow State University)	Planar and sandwich-type porphyrazines with annelated heterocyclic rings: synthesis and physicochemical properties
12.30-12.50	Sukhorukov Alexey Yurievich (N. D. Zelinsky Institute of Organic Chemistry)	Tuning the reactivity of the azide anion with metal ions. Nucleophilic addition to N,N-bis(oxy)enamines as a case study
12.55-13.15	Rubtsov Aleksandr Evgen'evich (Perm State University)	Catalytic asymmetric crotylation: method development and application in total synthesis
13.15-14.00	<i>LUNCH</i>	
14.00-14.10	Aksenov Nicolai Alexandrovich (North-Caucasus Federal University)	Enantioselective synthesis of indolylacetohydroxamic acids
14.10-14.20	Aksenov Dmitrii Alexandrovich (North-Caucasus Federal University)	Direct reductive coupling of indoles to nitrostyrenes en route to (indol-3-yl)acetonitriles and (indol-3-yl)acetamides
14.20-14.30	Makarov Mikhail Mikhailovich (Lomonosov Moscow State University)	Synthesis of PSMA targeted pH-dependent prodrugs



ADVANCES IN SYNTHESIS AND COMPLEXING

14.30-14.40	Averin Alexei Dmitrievich (Lomonosov Moscow State University)	Macrocycles with dansyl and quinolinyl fluorophore groups as chemosensors
14.40-14.50	Griaznov Georgii Denisovich (North-Caucasus Federal University)	Efficient one-pot synthesis of 6h-pyrrolo[2,3,4-gh]perimidines in polyphosphoric acid
14.50-15.00	Marchenko Roman Dmitrievich (National Research Tomsk Polytechnic University)	Solvent-free synthesis method of 1,3-bis(benzo-1,2,3-triazolyl)propane
15.00-15.10	Chagarovskiy Alexey Olegovich (National Scientific and Practical Center of Pediatric Hematology, Oncology and Immunology n.a. Dmitry Rogachev)	(3+3)-Annulation of donor-acceptor cyclopropanes to 1,2,3-substituted diaziridines. A first example of (3+3)-annulation of two different three-membered rings
15.10-15.20	Tikhonova Tatyana Andreevna (N.D. Zelinsky Institute of Organic Chemistry of RAS)	Imidazo[2.1-b]benzothiazoles: a novel class of GABA _A receptors modulators
15.20-15.30	Vorobyev Stepan Vladimirovich (Pirogov Russian National Research Medical University (RNRMU))	Synthesis and structure of lactam-containing phenolic derivatives
15.30-15.40	Grishina Irina Valeryevna (Lomonosov Moscow State University)	Conformational behaviour of novel 3,7-diazabicyclo[3.3.1]nonane derivatives
15.40-15.50	Volkova Yulia Alexeevna (N.D. Zelinsky Institute of Organic Chemistry of RAS)	Synthesis and spectral properties of linear and cyclic polyamino functionalized BODIPY
15.50-16.00	Tarakanov Pavel Alexandrovich (Institute of Physiologically Active Compounds RAS)	Role of conformations of substituted 1,4-diazepine heterocycle in synthesis of diazepinoporphyrine complexes
16.00-16.10	Buravchenko Galina Igorevna (Gause Institute of New Antibiotics)	Synthesis and biological evaluation of 3-phenylquinoxaline-2-carbonitrile 1,4-di-N-oxide derivatives as hypoxia-selective cytotoxic agents
16.10-16.20	Gimazetdinova Gulna Shaukatovna (Kazan National Research Technological University)	Coordination and luminescence properties of novel 1,3-diketone calix[4]arenes
16.20-16.30	Karakhanyan Gayane Serjik (Institute of Fine Organic Chemistry, Armenia)	A three-component one-pot synthesis of multifunctionalized 5,8-dihydropyrido[2,3-d]pyrimidin-4(3H)-one and 5,6,7,8,9,10-hexahydropyrido[4,5-b]quinolines.
16.30-		



ADVANCES IN SYNTHESIS AND COMPLEXING

17.30	<i>Coffee-Break. Poster Session.</i>	
17.30-17.40	Hapko Vladislav Vladimirovich (Lomonosov Moscow State University)	Synthesis of tissue-specific ligands conjugates for the targeted drug delivery to hepatic cells
17.40-17.50	Yankov Alexander Nikolaevich (Moscow Technological University)	An efficient and stereoselective approach to 14-membered hexaaza macrocycles using novel semicarbazone-based amidoalkylation reagents
17.50-18.00	Solovyev Pavel Andreevich (Moscow Technological University)	Chalcone-based synthesis of 1,3-diaryl-3-isothiocyanatopropan-1-ones
18.00-18.10	Latch Elizaveta Andreevna (Moscow Institute of Physics and Technology (State University))	Photochemical behaviour of styryl dyes with sulfonatopropyl substituents in solutions and in the presence of cucurbit[8]uril
18.10-18.20	Kinzhalov Mikhail Andreevich (St. Petersburg State University)	1,3-Dipolar cycloaddition of nitrones to gold(III)-bound Isocyanides
18.20-18.30	Hakobyan Marine Rubik (Institute of Fine Organic Chemistry, Armenia)	Synthesis of new functionalized 1,2,4-triazoles and their influence on methylation level DNA



ADVANCES IN SYNTHESIS AND COMPLEXING

27 April, THURSDAY

9.00 - 12.00 Plenary lectures (Ordgonikidze st. 3, club).

13.00 - 14.00 Lunch

15.00 - 19.00 Cultural Program

(Ordgonikidze st. 3, Club)

9.00-9.40	Lutz F. Tietze (Georg-August-University Göttingen, Germany)	Domino Reactions. The Green and Economical Art of Chemical Synthesis
9.45-10.25	Cosimo Altomare (University of Bari Aldo Moro, Italy)	Fragment-based approach to the optimization of glycosidic inhibitors of blood coagulation proteases: Deconstruction, superadditivity, and selectivity
10.30-11.00	Jing Zhao (Peking University, China)	Bridging Chemistry and Biology through Metal Catalysis
11.00-11.30	<i>Coffee-Break</i>	
11.30-12.00	Hiroyuki Nakamura (Tokyo Institute of Technology, Japan)	C-H versus C-C in Activation of Propargylic Amines under Transition-Metal Catalysis
12.00-12.20	Gazieva Galina Anatol'evna (N. D. Zelinsky Institute of Organic Chemistry of RAS)	Target diastereoselective synthesis of dispiroheterocyclic structures comprising pyrrolidinyloxindole and imidazothiazolotriazine moieties
12.20-12.40	Kuznetsov Nikolay Yur'evich (Nesmeyanov Institute of Organoelement Compounds RAS)	Stereoselective construction of piperidines from homoallylamines via new anionic rearrangements. Development of novel potent inhibitors of Influenza A M2 channel and heat shock protein 90.
12.40-13.00	Larin Alexander Alexandrovich (N. D. Zelinsky Institute of Organic Chemistry of RAS)	Pharmacologically oriented and high energy furoxan derivatives
13.00-13.40	<i>LUNCH</i>	
13.40-14.00	Lobova Natalia Anatolievna (Photochemistry Centre RAS (FSRC "Crystallography and Photonics" RAS))	Stereospecific [2+2] photocycloaddition of crown-containing styryl dyes with ammonioalkyl substituents



ADVANCES IN SYNTHESIS AND COMPLEXING

14.00- 14.20	Nazarov Alexey Anatolievich (M. V. Lomonosov Moscow State University)	Antitumor ruthenium compounds with targeting ligands
14.20- 14.40	Arno Schneeweis (Dusseldorf University)	The Regioisomers of Di(benzothieno)thiazines – Syntheses and Electronic Properties
14.40- 19.00	<i>Cultural Program</i>	



ADVANCES IN SYNTHESIS AND COMPLEXING
28 April, FRIDAY

9.00 - 12.00 Plenary lectures (Ordgonikidze st. 3, club).

13.00 - 14.00 Lunch

16.00 - 16.40 Poster Session

18.00 - 18.30 Conference closure

(Ordgonikidze st. 3, club)

9.00-9.40	Andrei Antonchick (Technical University of Dortmund, Germany)	Advances in Heterocycle Synthesis
9.45-10.25	Oliver Reiser (Universität Regensburg, Germany)	Converting hay to gold with modern spinning wheels: Non-edible, renewable resources as starting materials for the synthesis of fine chemicals utilizing light, flow and mag(net)ic catalysts
10.30-11.10	Thomas J.J. Mueller (Dusseldorf University)	Sequentially Pd-catalyzed one-pot syntheses of functional heterocycles
11.10-11.40	<i>Coffee-Break</i>	
11.40-12.10	Tatiana V. Timofeeva (New Mexico Highlands University, USA)	Structural Tuning of Luminescent and Magnetic Properties of Porous Metal Organic Frameworks
12.15-12.35	Aksenov Alexander Victorovich (North Caucasus Federal University)	Applications of "intelligent" reaction media in synthesis of polynuclear heterocyclic compounds
12.40-13.00	Brunschweiger Andreas Michael (Technical University of Dortmund, Germany)	Avenues to DNA-encoded small molecule libraries – of a chemoresistant sequence and nanoreactors
13.00-14.00	<i>LUNCH</i>	
14.00-14.20	Petrosyan Vladimir Anushavanovich (N.D. Zelinsky Institute of Organic Chemistry RAS)	Electroinduced «Metal-Free» C-H Functionalization of (Hetero)Aromatic Systems
14.20-14.40	Deineka Victor Ivanovich (Belgorod National Research University)	Transitions of flavylum ion to quinoidal structures with intramolecular co-pigmentation of anthocyanins as the basis for colorful food colors
14.40-15.00	Trushkov Igor Viktorovich (RUDN University)	Donor-acceptor cyclopropanes ring opening with nitrogen nucleophiles as a key step in the synthesis of azaheterocycles



ADVANCES IN SYNTHESIS AND COMPLEXING

15.00-15.20	Chusov Denis Alexandrovich (A. N. Nesmeyanov Institute of Organoelement Compounds of RAS)	Selective C-N, C-C, C-O bond formation with tolerance to functional groups
15.20-15.40	Merkt Franziska Karoline (Heinrich-Heine University Düsseldorf)	Diversity-oriented synthesis of intensively emissive 3 ethynyl- and 2 triazolylquinoxalines by MCR sequences
15.40-16.00	Valdomir Guillermo (Georg-August-Universität Göttingen)	Enantioselective total synthesis of dicerandrol C
16.00-16.50	<i>Coffee-Break. Poster Session</i>	
16.50-17.00	Beloglazkina Anastasia Alexandrovna (Lomonosov Moscow State University)	Novel anticancer drugs dispiro-oxindole series based on various types of heterocycles: synthesis and biological testing
17.00-17.10	Martyanov Timofey Petrovich (Institute of Problems of Chemical Physics)	Donor-acceptor complexes of bis(18- crown-6)azobenzene with bisammonium derivatives of heterocyclic compounds
17.10-17.20	Ulviyya Asgerova Faxraddin (Baku State University)	A new method for the synthesis of benzofuran-2-one derivatives
17.20-17.30	Dashkova Natalya Sergeevna (Lomonosov Moscow State University)	New 2-thioimidazolinum ligands like copper chelating agents: potential drugs for the treatment of Wilson's disease
17.30-17.40	Filyakova Vera Ivanovna (Postovsky Institute of Organic Synthesis, Urals Branch of Russian Academy of Sciences)	Reactivity of polyfluoroalkyl-containing lithium 1,3-diketonates: activation by nitrosation
17.40-17.50	Fedorov Oleg Vladimirovich (N. D. Zelinsky Institute of Organic Chemistry)	Synthesis of fluorinated heterocyclic compounds starting from α,α -difluoro- β - halogenketones
17.50-18.30	<i>Reward Ceremony, Conference Closure</i>	