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Dr. Yana I. Sakhno

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PERSONAL:

Born: 1976/6/19; Kharkiv, Ukraine

Citizenship Ukraine

Marital status: Single

Home address: Bolgarskaya st. 34,
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EDUCATION AND ACADEMIC STATUSES:

Specialist (M.Sc.) with honor **Chemistry**, June 1999, Kharkiv State University
(diploma XA 11642537)
Thesis under Dr. Nadezhda N. Kolos: "Synthesis 2,4-diaryl-2,3-dihydro-1,5-benzodiazepines and their N-aryl derivatives".

PhD **Organic Chemistry**, June 2009, Karazin Kharkiv National University
Thesis under Dr. Valentyn A. Chebanov supervision: "Heterocyclization reactions of pyruvic acid and its derivatives with aminoazoles".

PERSONAL PROFILES IN SCIENTOMETRIC DATABASES:

[https://www.scopus.com/authid/detail.uri?origin=resultslist&authorId=8948423700&zone=;](https://www.scopus.com/authid/detail.uri?origin=resultslist&authorId=8948423700&zone=)
<https://scholar.google.com/citations?user=G3hpeXkAAAAJ&hl=ua>
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<https://www.webofscience.com/wos/author/record/HJZ-4228-2023>

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PROFESSIONAL CAREER:

August 1993– July 1999	Student , Kharkiv State University (Since 1999 – Karazin Kharkiv National University)
September 1994– February 1996	Laboratory assistant , Kharkiv school № 162
February 1996 - August 2000	Chemistry teacher , Kharkiv school № 162
August 2000 - March 2009	Engineer , Department of Photoactive Heterocyclic Compounds, STC "Institute for Single Crystals", Kharkiv
March 2008 – April 2008	Guest Researcher , Organic Chemistry Department, University of Konstanz, Germany (Prof. U. Groth)
March 2009 – June 2012	Junior Researcher , Laboratory for Physicochemical Processes at Department of Heterocyclic Compound Chemistry, SSI "Institute for Single Crystals" NASU, Kharkiv
June 2012 – August 2013	Postdoctoral study University of South Florida, Tampa (USA). (supervisor - Dr. R. Manetsch)
September 2013 – December 2016	Researcher , Laboratory for Physicochemical Processes at Department of Heterocyclic compounds, SSI "Institute for Single Crystals" NASU, Kharkiv
Desember 2016 – present time	Senior Research Scientist , Deputy Head of the Department of Organic and Bioorganic Chemistry, Institute of Functional Materials Chemistry SSI "Institute for Single Crystals" NAS of Ukraine, Kharkiv

RESEARCH INTERESTS:

The main research interests of Dr. Yana Sakhno concern study of reactions between α,β -unsaturated carbonyl compounds and their synthetic precursors, CH-acids and carbonyls, with aliphatic, aromatic and heterocyclic binucleophiles resulting in formation 3-, 5-, 6- or 7-membered nitrogen-containing heterocycles possessing pharmacological activity. She is particularly interested in the design of novel organic reactions, including multicomponent and one-pot processes, and the tuning of their regio- and chemoselectivity. She also participates in studies on stereoselective organic reactions. In her laboratory work she intensively applies non-classical activation methods - microwave- and ultrasound-assisted organic synthesis. Dr. Yana Sakhno is also interested in theoretical aspects of heterocyclic chemistry and the mechanisms of organic reactions. When she worked in Manetsch's lab at USF (Tampa, USA), she synthesized and characterized compounds with antimalarial activity.

EXPERIMENTAL EXPERIENCE:

- Various traditional methods for the synthesis of nitrogen-containing heterocyclic compounds and their intermediates.
- Microwave- and ultrasound-assisted methods in organic synthesis.
- Spectral methods in organic chemistry: IR-, UV-, MS- and NMR-spectroscopy. X-ray crystallography analysis. HPLC separation of organic compounds.

TEACHING EXPERIENCE:

- Chemistry teacher, Kharkiv school № 162
- Co-supervision of M.S. diploma thesis
- Practical laboratory course at Karazin Kharkiv National University

MEMBERSHIP IN SCIENTIFIC SOCIETIES

- American Chemical Society (2013)

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Independent thinking, leadership qualities, and capacity to transfer knowledge

Yana Sakhno carried out her studies in the Department of Heterocyclic Compound Chemistry of ISC since 1999, and half of this period was devoted to her PhD (Candidate of Science) thesis which was successfully defended in 2009 year at the Special Academic Council of V.N. Karazin Kharkiv National University. The larger part of experiments in this scientific work were planned, carried out and analyzed by herself without significant assistance from the supervisor (Dr. Valentin Chebanov), which demonstrates high level of independent thinking and working. Several complex labor-intensive and time-consuming experiments were also suggested by dr Sakhno herself which indicates her initiative, purposefulness and wish for knowledge of verity. Undoubtedly, exactly these merits allowed her to carry out high-level scientific studies, which were finalized in a nice PhD thesis. Official opponents of the dissertation designated Sakhno's PhD thesis as one of the best for the last several years.

During the work of Yana Sakhno in ISC she was a co-supervisor of several MSc diploma theses which were successfully defended at V.N. Karazin Kharkiv National University. Moreover, before starting scientific work she also worked as a teacher of chemistry in one of Kharkiv secondary schools. It gave her nice experience not only in teaching but also in understanding human psychology which is very useful for management and leadership.

AWARDS, GRANTS AND SCHOLARSHIPS:

- 2000 – Appreciation for high level of teaching.
- 2007 – Award from SSI "Institute for Single Crystals" NASU, Kharkiv
- 2007 – 2008 – DAAD scholarship for scientists, Organic Chemistry Department, University of Konstanz, Germany
- 2010 – Award from National Academy of Sciences of Ukraine
- 2011 – President of Ukraine Young Scientists Award
- 2012-2013 – Scholarship for postdoctoral fellow at University of South Florida, Tampa (USA)
- 2019 – Award of Kharkiv State Administration for significant progress in science

PUBLICATIONS:

24 original articles, 6 patents of Ukraine, and 58 International and Ukrainian conference abstracts

Articles:

1. Chebanov V.A., Desenko S.M., **Sakhno Y.I.**, Panchenko E.S., Saraev V.E., Musatov V.I., Konev V.F. Study of heterocyclization products of arylidenepyruvic acids with 5-aminotetrazole and 2-aminobenzoimidazole // *Phizyologichno Actyvni Spoluky*, **2002**, 33, 10-13
2. Chebanov V.A., **Sakhno Ya.I.**, Desenko S.M., Shishkina S.V., Musatov V.I., Shishkin O.V., Knyazeva I.V. Three-Component Procedure for the Synthesis of 5-Aryl-5,8-dihydroazolo[1,5-*a*]pyrimidine-7-carboxylic Acids // *Synthesis*, **2005**, 2597 – 2602
3. Chebanov V.A., **Sakhno Ya.I.**, Desenko S.M., Chernenko V.N., Musatov V.I., Shishkina S.V., Shishkin O.V., Kappe C.O. Cyclocondensation Reactions of 5-Aminopyrazoles, Pyruvic Acids and Aldehydes. Multicomponent Approaches to Pyrazolopyridines and Related Products // *Tetrahedron*, **2007**, 63, 1229-1242
4. **Sakhno Ya.I.**, Desenko S.M., Shishkina S.V., Shishkin O.V., Sysoyev D.O., Groth U., Kappe C.O., Chebanov V.A. Multicomponent Cyclocondensation Reactions of Aminoazoles, Arylpyruvic Acids and Aldehydes with Controlled Chemoselectivity // *Tetrahedron*, **2008**, 64, 11041-11049
5. **Sakhno Ya.I.**, Shishkina S.V., Shishkin O.V., Musatov V.I., Vashchenko E.V., Desenko S.M., Chebanov V.A. Diversity oriented heterocyclizations of pyruvic acids, aldehydes and 5-amino-*N*-aryl-1*H*-pyrazole-4-carboxamides: catalytic and temperature control of chemoselectivity // *Molecular Diversity*, **2010**, 14, 523-531
6. **Sakhno Ya. I.**, Desenko S. M., Shishkina S. V., Shishkin O. V., Musatov V. I. and Chebanov V. A. Unusual Direction of Cyclocondensation of 1-(4-Chlorophenyl)-3,5-diamino-1,2,4-triazole, Pyruvic Acids and Aldehydes Synthesis // *Synthesis*, **2011**, 7, 1120–1124
7. Chebanov V. A., **Sakhno Ya. I.**, Desenko S. M. High regioselective ultrasonic-assisted synthesis of 2,7-diaryl-4,7-dihydropyrazolo[1,5-*a*]pyrimidine-5-carboxylic acids // *Ultrasonics Sonochemistry*, **2012**, 19, 707–709

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8. Murlykina M. V., **Sakhno Y. I.**, Desenko S. M., Konovalova I. S., Shishkin O. V., Sysoyev D. A., Kornet M. N., Chebanov V.A. Features of switchable multicomponent heterocyclizations of salicylic aldehydes and 5-aminopyrazoles with pyruvic acids and antimicrobial activity of the reaction products. *Tetrahedron* **2013**, 69, 9261–9269
9. Murlykina M. V., **Sakhno Y. I.**, Desenko S. M., Chebanov V. A. Controlling chemoselectivity of three-component reaction of pyruvic acid and its derivatives with 3-amino-1,2,4-triazol and salicylic aldehyde // in Book "Chemistry of Heterocyclic Compounds. Advanced aspects", ICSPF Press, M.: **2014**, Vol. 1, . 318-324.
10. Murlykina M. V., **Sakhno Y. I.**, Desenko S. M., Shishkina S. V., Shishkin O. V., Sysoiev D. O., Kornet M. N., Schols D., Goeman, J. Van der Eycken Ja. L., Van der Eycken E. V., Chebanov V.A. Study of chemoselectivity of multicomponent heterocyclizations involving 3-amino-1,2,4-triazole and pyruvic acids as key reagents and biological activity of the reaction products *Eur. J. Org. Chem.* **2015**, 4481–4492.
11. **Sakhno Y. I.**, Murlykina M. V., Morozova A. D., Kozyryev A. V., Chebanov V. A. Heterocyclization Reactions of Pyruvic Acids and Aminoazoles with Con-trolled Chemoselectivity *French-Ukrainian Journal of Chemistry*, **2015**, 3, Is 2, 1-20.
12. **Sakhno Y. I.**, Kozyryev A. V., Desenko S. M., Shishkina S. V., Musatov V. I., Sysoiev D. O., Chebanov V. A. Features of two- and multicomponent heterocyclization reactions involving 3,4-disubstituted 5-aminopyrazoles and alkyl pyruvates *Tetrahedron* **2018**, 74, 564-571.
13. Murlykina M. V., Morozova A. D., Zviagin I. M., **Sakhno Y. I.**, Desenko S. M., Chebanov V. A. Aminoazole-based Diversity-Oriented Synthesis of Heterocycles *Frontiers in Chemistry* **2018**, Vol. 6. – Article 527. – pp. 1-43.
14. Murlykina M. V., Kolomiets O. V., Kornet M. M., **Sakhno Y. I.**, Desenko S. M., Dyakonenko V. V., Shishkina S. V., Brazhko O. A., Musatov V. I., Tsygankov A. V., Erik V Van der Eycken, Chebanov V. A. Doebner-type pyrazolopyridine carboxylic acids in Ugi four-component reaction *Beilstein J. Org. Chem.* **2019**, 15, 1281–1288.
15. **Sakhno Y. I.**, Murlykina M. V., Zbruyev O. I., Kozyryev A. V., Shishkina S. V., Sysoiev D., Musatov V. I., Desenko S. M., Chebanov V. A. Ultrasonic-assisted unusual four-component synthesis of 7-azolylamino-4,5,6,7-tetrahydroazolo[1,5-a]pyrimidines *Beilstein J. Org. Chem.* **2020**, 16, 281–289.
16. **Sakhno Y. I.**, Mykhailenko M. V., Kolosov M. A., Shvets E. H., Musatov V. I., Chorna N. V., Desenko S. M., Chebanov V. A. Condition-based switching the multicomponent reactions of 5-amino-3-(methylthio)-1,2,4-triazole, aromatic aldehydes, and pyruvic acid *Ukr. Bioorg. Acta* **2020**, Vol. 15, N2, 22-26.
17. **Sakhno Y. I.**, Radchenko O. V., Muravyova E. A., Sirko S. M., Shishkina S. V., Musatov V. I., Desenko S. M., Chebanov V. A. Synthesis of Isoxazolylpyrrolones by Three-component Reactions of α -Keto-glutaric Acid or Its Diethyl Ester with 3-Amino-5-methylisoxazole and Aromatic Aldehydes *Chem. Heterocycl. Compd.* **2021**, 57(3), 261–265.
18. Monastyrskiy Andrii, Brockmeyer Fabian, LaCrue Alexis N., Zhao Yingzhao, Maher Steven P., Maignan Jordany R., Padin-Irizarry Vivian, **Sakhno Yana I.**, Parvatkar Prakash T., Asakawa Ami H., Huang Lili, Casandra Debora, Mashkouri Sherwin, Kyle Dennis E., Manetsch Roman Aminoalkoxycarbonyloxymethyl Ether Prodrugs with a pH-Triggered Release Mechanism: A Case Study Improving the Solubility, Bioavailability, and Efficacy of Antimalarial 4(1*H*)-Quinolones with Single Dose Cure *Journal of Medicinal Chemistry* **2021**, 64, 10, 6581–6595.
19. Shyshkina Mariia O., **Sakhno Yana I.**, Radchenko Oleksandr V., Shishkina Svitlana V., Desenko Sergey M. and Chebanov Valentyn A. N-(*tert*-butyl)-2-(2-(2-(4-chlorophenyl)-4-hydroxy-1-(5-methylisoxazol-3-yl)-5-oxo-2,5-dihydro-1*H*-pyrrol-3-yl)-N-(4-methoxyphenyl)acetamido)-2-(4-methoxyphenyl)acetamide: single-crystal X-ray diffraction study and Hirshfeld surface analysis *Acta Crystallographica Section E* **2021**, E77, 1208–1212.
20. **Sakhno Yana I.**, Zinchenko Ihor O., Shcherbakov Ilias B., Ivashchenko Hanna L., Stolper Yuriy M., Lyapunov Oleksii M., Belikov Kostyantyn M., Desenko Sergey M., Bezugla Olena P., Chebanov Valentyn A. How degradation testing helps to improve drug development: case study of 2,5-dihydro-1*H*-pyrrol-3-yl substituted acetic acid *Funct. Mater.*, **2022**, 29 (4), P. 611-620.
21. Mikhedkina Olena I., Ananieva Valeriia V., **Sakhno Yana I.**, Melnyk Igor I., Vereshchak Vladyslav O., Osolodchenko Tetiana P., Shishkina Svitlana V., Tsygankov Alexander V., Chebanov Valentyn A. Azomethines based on ethyl 4-formyl-3,5-dimethyl-1*H*-pyrrole-2-carboxylate, its biological activity and reaction with thioglycolic acid *Chem. Heterocycl. Compd.* **2023**, 59(6/7), 449–455.
22. **Sakhno Yana**, Radchenko Oleksandr, Saraev Vyacheslav, Shliapkina Yuliia, Kaidash Mariia, Shyshkina Mariia, Shishkina Svitlana, Musatov Vladimir, Desenko Sergey, Chebanov Valentyn Temperature-Controlled Diastereoselective Doebner/Ugi Tandem Reaction *SynOpen* **2023**, 7, 258–266.

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23. Desenko Serhiy M., Gorobets Mykola Yu., Lipson Victoria V., **Sakhno Yana I.**, Chebanov Valentyn A. Dihydroazolopyrimidines: Past, Present and Perspectives in Synthesis, Green Chemistry and Drug Discovery *Chem. Rec.* Special Issue: Chemistry in Ukraine 2/**2024**
24. Tsygankov Alexander V., Vereshchak Vladyslav O., Savluk Tetiana O., Desenko Serhiy M., Ananieva Valeriia V., Buravov Oleksandr V., **Sakhno Yana I.**, Shishkina Svitlana V. and Chebanov Valentyn A. Ugi bisamides based on pyrrolyl- β -chlorovinylaldehyde and their unusual transformation *Beilstein Journal of Organic Chemistry* **2024**, 20, 1773-1784.

Patents:

1. **Sakhno Ya.I.**, Murlykina M.V., Chebanov V.A., Desenko S.M., Afanasiadi L.M. Derivatives of 2,6-diaryl-7-hydroxy-5-(2-hydroxyphenyl)-4,5,6,7-tetrahydrotriazolo[1,5-*a*]pyrimidine-7-carboxylic acid and methods for their obtaining // Patent of Ukraine №105557 dated 26.05.**2014**
2. Sakhno Ya.I., Chebanov V.A., Desenko S.M., Afanasiadi L.M. Derivatives of 3-[5-amino-1-(4-chlorophenyl)-1*H*-1,2,4-triazol-3-ylamino]-5-arylfuran-2-one and method for their preparation Patent of Ukraine № 97927 dated 26.03.**2012**
3. **Sakhno Ya.I.**, Chebanov V.A., Desenko S.M., Afanasiadi L.M. 6-Bromine-7-aryl-4,7-dihydroazolo[1,5-*a*]pyrimidine-5-carboxylic acids and Methods of their Synthesis *Patent of Ukraine* № 96819 dated 12.12.**2011**
4. **Sakhno Ya.I.**, Chebanov V.A., Desenko S.M., Afanasiadi L.M. Derivatives of 3-aryl-10,11-dihydro-4,10-methanepyrzolo[4,3-*c*][1,5-*a*] benzoxazocine-4-carboxylic acids and Methods of their Synthesis *Patent of Ukraine* № 95886 dated 12.09.**2011**
5. **Sakhno Ya.I.**, Chebanov V.A., Desenko S.M., Afanasiadi L.M. Derivatives of 7-Hydroxy-5,6-diaryl-4,5,6,7-tetrahydroazolo[1,5-*a*]pyrimidine-7-carboxylic acids and Methods of their Synthesis *Patent of Ukraine* № 88504 dated 26.10.**2009**
6. **Sakhno Ya.I.**, Chebanov V.A., Chernenko V.N., Desenko S.M., Afanasiadi L.M. Derivatives of 3,6-diaryl-1*H*-pyrazolo[3,4-*b*]pyridine-4-carboxylic acids and methods for their obtaining *Patent of Ukraine* № 81201 dated 10.12.**2007**

As a main author and co-author, she participated in scientific conferences, for example:

1. V. A. Chebanov, **Ya. I. Sakhno**, E. S. Panchenko, V. E. Saraev, V. I. Musatov, S. M. Desenko "Study of Heterocyclisation Reactions of Arylidenpyruvic Acids with Aminoazoles" Organic Synthesis in the New Century: Third Yours School-Conference on Organic Synthesis, Saint-Petersburg (Russia) 24-27 June **2002**, P. 185.
2. V. A. Chebanov, S. M. Desenko, E. A. Muravyova, Y. V. Sadchikova, V. E. Saraev, **Ya. I. Sakhno**, A. I. Zbruyev "Multicomponent Reactions in Synthesis of Nitrogen Containing Heterocycles" Organic Chemistry – Decline or Rebirth? IV All-Russian Symposium on Organic Chemistry, Moscow-Uglich (Russia) 5-7 July **2003**, P. 50.
3. V. A. Chebanov, S. M. Desenko, E. A. Muravyova, Y. V. Sadchikova, **Ya. I. Sakhno**, V. E. Saraev, A. I. Zbruyev, V. I. Musatov "Multicomponent Synthesis of Nitrogen Containing Heterocycles" Chemistry of Nitrogen Containing Heterocycles CNCH-2003 , Kharkiv (Ukraine), 30 September - 3 October **2003**, P. 34.
4. **Ya. I. Sakhno**, V. A. Chebanov, S. M. Desenko, V. N. Chernenko, E. V. Lukinova "Multicomponent Synthesis of Nitrogen Containing Heterocycles with Pyruvic Acid Participation" XX Ukrainian Conference in Organic Chemistry, Odessa (Ukraine) 20-24 September **2004**, P. 565.
5. V. A. Chebanov, S. A. Komihov, **Ya. I. Sakhno**, K. S. Ostras, S. M. Desenko, E. V. Lukinova A "New Synthetic Approaches to Amino- and Carboxyl-Substituted Dihydroazolopyrimidines"

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International Kost Conference of Heterocyclic Chemistry Moscow (Russia), 17-21 October **2005**, P. 251.

6. V. A. Chebanov, S. M. Desenko, E. A. Muravyova, V. E. Saraev, **Ya. I. Sakhno**, V. N. Chernenko, L. M. Afanasiady C. O. Kappe "New Microwave-Assisted Methods in Multicomponent Synthesis Leading to Pyridine and Pyrimidine Derivatives" Advanced Science in Organic Chemistry, Sudak (Ukraine), 26-30 June **2006**, P. Y-20.
7. **Ya. I. Sakhno**, V. A. Chebanov, S. M. Desenko, S. V. Shishkina, E. V. Lukinova, O. V. Shishkin "Three-Component Reactions of Phenylpyruvic Acid with Aminoazoles and Aldehydes" III International Conference Chemistry and Biological Activity of Nitrogen Containing Heterocycles, Chernogolovka (Russia), 20-23 June **2006**, P. 238.
8. **Ya. I. Sakhno**, V. A. Chebanov, S. M. Desenko, V. N. Chernenko, S. V. Shishkina, O. V. Shishkin, E. V. Lukinova "Study of the Reaction of Arylpyruvic Acid with Some Aminoazoles and Aldehydes" International Conference Chemistry of Nitrogen Containing Heterocycles CNCH-2006, Kharkiv (Ukraine), 2-7 October **2006**, P. 113.
9. V. A. Chebanov, S. M. Desenko, **Ya. I. Sakhno**, E. A. Muravyova, V. E. Saraev, V. N. Chernenko, C. O. Kappe "Application of CH-Acids in Three-component Reactions Leading to Fused Pyridine and Pyrimidine Derivatives" The Third International Conference on Multi-Component Reactions and Related Chemistry, Amsterdam (the Netherlands), 9-13 July **2006**, P. 52-53.
10. **Ya. I. Sakhno**, V. A. Chebanov, S. M. Desenko, E. V. Lukinova, S. V. Shishkina, O. V. Shishkin "An Unusual Condensation of 1-Phenyl-3,5-diamino-1,2,4-triazole with Pyruvic Acids" XXI Ukrainian Conference on Organic Chemistry, Chernigiv (Ukraine), 1-5 October **2007**, P. 295.
11. **Ya. I. Sakhno**, V. A. Chebanov, S. V. Shishkina, V. I. Musatov, S. M. Desenko "Multicomponent Reactions of Aminoazoles, Aldehydes and Arylpyruvic Acids with Controlled Chemoselectivity" International Conference Actual Problems of Drug Design, Lviv (Ukraine), 15-18 October **2008**, P. 134.
12. V. A. Chebanov, E. A. Muravyova, **Ya. I. Sakhno**, V. E. Saraev, C. O. Kappe, S. M. Desenko "Microwaves Vs. Ultrasonication: Towards Control of Chemoselectivity" Microwave and Flow Chemistry Conference, Antigua, 28-31 January **2009**, P.52.
13. V. A. Chebanov, **Ya. I. Sakhno**, V. E. Saraev, E. A. Muravyova, A. Yu. Andrushchenko, S. M. Desenko "Multicomponent Heterocyclizations: Control of Chemo- and Regioselectivity" IV International Conference on Multi-Component Reactions and Related Chemistry, Ekaterinburg (Russia), 24-28 May **2009**, P. 13.
14. **Ya. I. Sakhno**, V. A. Chebanov, E. S. Gladkov, S. M. Sirko, S. M. Desenko "A Study of Heterocyclization Reactions of Pyruvic Acids with 5-Amino-N-aryl-1H-1,2,3-triazole-4-carboxamides" International Conference Chemistry of Nitrogen Containing Heterocycles CNCH-2009, Kharkiv (Ukraine), 5-9 October **2009**, P. 123.
15. **Ya. I. Sakhno**, V. A. Chebanov, S. M. Desenko, M. V. Murlykina, V. V. Tkachenko, Yu. V. Senko, S. V. Shishkina "Some Specificity of Three-component Condensation Involving Pyruvic Acids and Salicylaldehydes" XXII Ukrainian Conference on Organic Chemistry, Uzhgorod (Ukraine), 20-25 September **2010**, P. 237.
16. M. V. Murlykina, **Ya. I. Sakhno**, V. A. Chebanov Tuning Selectivity of Switchable Multicomponent Heterocyclizations involving aminoazoles, salicylaldehydes and pyruvic acids 15th JCF-Frühjahrssymposium, 6-9 March **2013**, Berlin, Germany, p-250 (poster).
17. **Ya. I. Sakhno**, M. V. Murlykina, O. V. Shishkin, S. M. Desenko, V. A. Chebanov Multicomponent heterocyclization reactions of aminoazoles with salicylaldehydes and pyruvic acid derivatives VI International Conference Chemistry of Nitrogen Containing Heterocycles CNCH-2012, 12 - 16 November, **2012** Kharkov, Ukraine
18. Andrii Monastyrskyi, Alexis N. LaCrue, Tina S. Mutka, **Yana. I. Sakhno**, Dennis E. Kyle, Roman Manetsch. Synthesis and evaluation of 4(1*H*)-quinolone prodrugs targeting multi-drug resistance *P. falciparum* malaria 245th American Chemical Society Meeting and Exposition, New Orleans, April 7-11, **2013**

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19. V. Chebanov, A. Kozyryev, A. Morozova, E. Muravyova, M. Murlykina, **Ya. Sakhno** Strategy for Tuning Multicomponent Reactions Involving Pyruvic Acids for Diversity Oriented Synthesis of Novel Heterocycles Abstracts of the 8th International Conference in Chemistry Toulouse-Kiev, 31 May – 4 June, **2015**, Toulouse (France), p. P8.
20. **Ya.I. Sakhno**, A.V. Kozyryev, Yu.V. Sen'ko, V.A. Chebanov A Study of Heterocyclization Reactions of Pyruvic Acid Esters with 4-substituted 5-aminopyrazoles VII International Conference Chemistry of Nitrogen Containing Heterocycles (CNCH-2015), 09-13 November **2015**, Kharkiv, P-1.
21. M.V. Murlykina, **Ya.I. Sakhno**, Van der Eycken E.V., V.A. Chebanov Isocyanide-based Multicomponent Reactions Involving Aminoazoles and Azoloazines VII International Conference Chemistry of Nitrogen Containing Heterocycles (CNCH-2015), 09-13 November **2015**, Kharkiv, P-19.
22. **Y. I. Sakhno**, A. V. Kozyryev, V. A. Chebanov Heterocyclization Reactions involving Pyruvic Acid Esters and 3,4-Substituted 5-Aminopyrazoles online International Conference in Organic Synthesis Balticum Organicum Syntheticum (BOS 2016), 3-6 July **2016**, Riga, P-140.
23. **Y. I. Sakhno**, S. V. Shishkina, V. I. Musatov, and V. A. Chebanov Synthesis of Diverse Isoxazolylpyrrolones by Multicomponent Reactions Involving α -Ketoglutaric Acid, 3-Amino-5-methylisoxazole and Aromatic Aldehydes Abstracts of the 9th International Conference in Chemistry Kyiv-Toulouse, 4June – 9June, **2017**, Kyiv, p.Y163.
24. V. A. Chebanov, S. M. Desenko, Maryna V. Murlykina, Volodymyr V. Tkachenko, **Y. I. Sakhno**, E. A. Muravyova Multicomponent Heterocyclizations Involving Aminoazoles and Salicylaldehydes with Controlled Chemoselectivity Abstracts of 7th International Conference on Multicomponent Reactions and Related Chemistry August 26th to 31st, **2018**, Düsseldorf, Germany, IL-06.
25. **Ya. I. Sakhno**, Y. V. Sen'ko, V. A. Chebanov Study of Heterocyclizations of Diethyl 2-oxoglutarate and its Derivative with some Aminoazoles Chemistry of Nitrogen Containing Heterocycles (CNCH-2018), 12-16 November, **2018**, Kharkiv, P 130.
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