

Sucman Natalia



Academic degree:

Doctor in Organic Chemistry

Born:

November 09, 1983

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Education

- 2006, State University of Moldova, Department of Chemistry and Chemical Technologies, Chisinau, RM
- 2007, Master degree, State University of Moldova, Department of Chemistry and Chemical Technologies, Chisinau, RM
- January 2013, Doctor degree in organic chemistry

Career/Employment

- 2006-2007, Engineer-Chemist of the Laboratory of Organic Synthesis of the Institute of Chemistry of the Academy of Sciences of Moldova
- 2006-2009, The Ph.D.-student in Organic Chemistry
- 2007 - 2016 Junior researcher of the Laboratory of Organic Synthesis of the Institute of Chemistry of the Academy of Sciences of Moldova
- 2017 - present Senior researcher of the Laboratory of Organic Synthesis and Biopharmaceuticals of the Institute of Chemistry of the Academy of Sciences of Moldova
- September 2017- present –lecturer at the Comrat State University, RM
- September – December 2018 - Head of the Department "Technology of production and processing of agricultural products" of the Agro-Technological Faculty, Comrat State University, RM

Awards

- 2008, Stipend of Excellence of Government of the Republic of Moldova
- 2009, Scholarship of ICSC – World Laboratory (Switzerland) in field of the inhibitors of HIV

Scientific activity:

- July 21 – August 2, 2008, Bucharest, Romania - Attendance the NATO Advanced Study Institute "Green Metathesis Chemistry: Great Challenges in Synthesis, Catalysis and Nanotechnology"
- 2009, Joint Moldavian/German Project Ref. № 09.820.05.08 GF -"New Polymer-bound Organo-Stereoselectors from renewable Resources: Synthesis and Application in Asymmetric Catalysis, executor
- 2010-2011, The Royal Society International Joint Project Ref. № JP090309), executor
- 2010, Joint Moldavian/Ukraine project Ref. № 10.820.09.01/UA, executor
- January 31- February 27, 2011, Dubna, Russian Federation – Training for young scientists from CSI «Management and Commercialization of Nanotechnology Innovations».
- 2013-2014 STCU project Ref. № 5800, executor
- 2017-2018 STCU project Ref. № 6245, executor
- February-July 2018 – Joint GAMCON/REDI/KDU project "Increasing Youth Ecology culture", executor
- 01.01-31.12 2019-Coordinator of the research project for young scientist „Stereozomerii spiro[ciclopropan-oxindolilor] cu activitatea antivirală”, nr. 19.80012.80.07A, ANCD.

Foreign languages:

Russian excellent; Romanian good; English good, Gagauzian good, Bulgarian good.

Publications:

Chapter in the monograph

Macaev F., Geronikaki A., **Sucman N.** Recent application of isatins in synthesis of functionalized spirocyclic oxindoles. Targets in heterocyclic systems. Chemistry and Properties. Resp. ed. Attanasi, O.A.; Spinelli, D. „Società Chimica Italiana”, 2012, V 15, p. 294-326. ISSN 1724-9449.

Articles:

1. V. Boldescu, **N. Sucman**, S. Hassan, J. Iqbal, M. Neamtu, J. Lecka, J. Sévigny,] D. Prodius, F. Macaev. Ectonucleotidase inhibitory and redox activity of imidazole-based organic salts and ionic liquids. *ChemMedChem*, 2018, 13, 21, 2297-2304. ISSN:1860-7187.
2. **Sucman, N. S.**; Pogrebnoi, V. S.; Obushak, M. D.; Melnic, E.; Kravtsov, V. Ch.; Macaev, F. Z. The synthesis of new spiro lactones from substituted isatins. *Chem. J. Moldova* 2015, 10 (1), 64-70
3. F. Z. Macaev, **N. S. Sucman**, V. V. Boldescu. Selective transformations of isatins to substituted 2-oxindoles. *Rus. Chem. Bull.*, 2014, 63(1), 15-25.
4. Macaev F. Z., **Sucman N. S.**, Pogrebnoi S. I., Logina L.P., Barba A.N. Initial synthesis of diastereomeric pyran spirooxindolinones based on (-)-carvone and (+)-3-carene. *Chem. Natural Compounds*, 2014, 50 (1), 103-108
5. Boldescu V., Crudu V., **Sucman N.**, Pogrebnoi S., Zviaghințeva M., Stîngaci E., Pogrebnoi V., Macaev F. Molecular concepts of macrophage targeting. *Chem. J. Moldova*, 2013, 8 (2), 21-31
6. Macaev, F.; Boldescu, V.; Geronikaki, A.; **Sucman, N.** Recent advances in the use of cyclodextrins in antifungal formulations. *Curr. Top. Med. Chem.*, 2013, 13 (21), 2677-2683.
7. Artur Noole, **Natalia S. Sucman**, Mikhail A. Kabeshov, Dr. Tõnis Kanger, Fliur Z. Macaev, Andrei V. Malkov. Highly Enantio- and Diastereoselective Generation of Two Quaternary Centers in Spirocyclopropanation of Oxindole Derivatives. *Chem.Eur. J.*, 2012, 18(47), 14929–14933
8. Macaev F., Ribkovskaia Z., Bet L., **Sucman N.**, Pogrebnoi S. Synthesis of New 5-Aryl-1, 3, 4-Oxadiazol-Thioureas and Oxadiazol-Thioxopyrimidinones Derivatives of Monoterpenes and Evaluation of their Catalytic Efficiency for Strecker-type and Epoxide Ring Opening Reactions. *The All Results Journals: Chem*, 2012, 3, 12-18.

9. Fliur Macaev, **Natalia Sucman**, Felix Shepeli, Marina Zveaghintseva, Vsevolod Pogrebnoi. Facile and Convenient One-Pot Process for the Synthesis of Spirooxindole Derivatives in High Optical Purity Using (-)-(S)-Brevicolline as an Organocatalyst. *Symmetry*, 2011, 3(2), 165-170
10. Oleg Radul, **Natalia Sucman**, Serghei Pogrebnoi, Alic Barba, Athina Geronikaki, Fliur Macaev. Synthesis and antiviral activity of new thiazole, 1,2,4-triazol and oxindole derivatives. *Chem. J. Moldova*, 2011, 6 (1), 101-109.
11. V. Sargorovschi, **N. Sucman**, T. Iudin, D. Duca, E. Stingaci, D. Prodius, S. Pogrebnoi, F. Macaev. Ionic liquids derivative of 1h-imidazole as novel reagents, catalysts and solvents. *Chem. J. Moldova*, 2010, 5 (1), 36-56.
12. V. Sargorovschi, **N. Sucman**, T. Iudin, E. Stingaci, F. Macaev. New catalytic system for preparation of methyl 2-(3-hydroxy-2-oxo-2,3-dihydro-1h-3- indolyl)acrylates. *Chem. J. Moldova*, 2010, 5 (1), 109-117.
13. F. Z. Macaev, O. M. Radul, I. N. Shterbet, S. I. Pogrebnoi, **N. S. Sucman**, S. T. Malinovskii, A. N. Barba, M. Gdaniec. Synthesis and structure of new oxindoles. *Chem. Heterocycl. Comp.*, 2007, 43(3), 298-305

Patents:

1. **Sucman N.**, Macaev F. Procedeu de obținere a derivaților carbonitrilici ai spiro[ciclopropan-oxindolilor]. Brevet de invenție № 4201 (MD) din 2012.03.21//BOPI №. 2/2013, p. 23.
2. **Sucman N.**, Macaev F. Procedeu de obținere a derivaților carbometoxi ai spiro[ciclopropan-oxindolilor]. Brevet de invenție № 4202 (MD) din 2012.03.21//BOPI №. 2/2013, p. 24.
3. Brevet de invenție. 4146. Procedeu de obținere a brevicolinei-bază din *Carex brevicollis* D. C./ Macaev F., Sepeli F., Sepeli D., Zveaghintseva M., Sepeli O., **Sucman N.**, Boldescu V., Duca GH. (MD). Cererea depusă 04.02.2011, BOPI nr 8/2010
4. Brevet de invenție. 4062. Compoziție catalitică pentru reacția Morita-Baylis-Hillman/Sargorovschi V., **Sucman N.**, Iudin T., Duca D., Stingaci E., Macaev F. (MD). Cererea depusă 25.06.2010, BOPI nr 8/2010.