**CURRICULUM VITAE**

**ANDREI I. KHLEBNIKOV, Professor**

*Primary institution:*

Tomsk Polytechnic University  
*Department:* Kizhner Research Center  
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Tomsk 634050, Russia

*Joint affiliation:*

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**PERSONAL DATA:**

Place of birth: Barnaul, USSR

Date of birth: May 7, 1963

Nationality: Russian

Marital status: Married

**CAREER AND RESEARCH EXPERIENCE**

**Professor of Chemistry**, Kizhner Research Center, Tomsk Polytechnic University, Tomsk, Russia. 2014–present

**Senior Researcher**, Faculty of Chemistry, Tomsk State University, Tomsk, Russia. 2019-present

**Chemistry educator, Associate Professor, Dean of Chemical Technology Department, Professor of Chemistry**, Department of Chemical Technology, Altai State Technical University, Barnaul, Russia. 1990–2020

***Research topics*:**

1. Development of new synthetic JNK inhibitors and compounds with antihypertensive activity.
2. Synthesis and investigation of transition metal complexes with nitrogen-containing heterocycles as ligands. Complexes of substituted benzotriazole and pyrazole with Cu(II), Co(II), Hg(II) and other transition metal ions were under investigation. Biologically important ligands were synthesized and involved in reactions with metal salts. Synthetic methods for obtaining polymeric chelating ligands and corresponding macromolecular complexes have been developed. The products are being investigated in metal extraction processes, for creation of nano devices, sensors, catalysts, etc. Technique used: physico-chemical analysis by the methods of TGA, NMR, EPR, electronic spectroscopy, chromato-mass spectrometry, voltammetric measurements.
3. Development of 3D-QSAR approach (the frontal polygon method) based on the determining local 3D-similarity of molecules. The method allows to perform QSAR analysis in a series of diverse and conformationally flexible compounds. The approach was successfully used for Baker triazines (dihydrofolate reductase inhibitors), urea derivatives (Cytochrome P450 inductors), azoles with anticarcinogenic activity.
4. Study of composition and biological properties of natural products (humus matter, mumie, Siberian plants). Fractions from mumie and sea buckthorn were isolated and investigated.

***Educational work***

*Teaching*: Lecturer on Organic Chemistry, Organic Synthesis, Analytical Chemistry, General Chemistry, Professional English Language.

*Supervisor*: Under my supervision and consulting, 8 investigators defended their candidate dissertations (equivalent of PhD degree) and 2 scientists defended their doctorate dissertations.

**Degrees**:

Engineer (higher education). June 1985, Chemical Engineering

Candidate of Chemical Sciences. June 1991, Organic Chemistry

Associate Professor. October 1997, General Chemistry

Doctor of Chemical Sciences. May 2000, Organic Chemistry

Full Professor. November 2001, General Chemistry

**PROFESSIONAL ORGANIZATION MEMBERSHIPS:**

Russian Chemical Society, Member since 1991

Russian Section of QSAR & Modeling Society, Member since 1999

Russian Association of Engineering Education, Member since 2001

Siberian Academy of Higher Education, Corresponding Member since 2006

American Chemical Society, Member since 2009

**RESEARCH GRANTS:**

International Soros Foundation Individual Grant, 1993.

Postdoc Grant from the Italian Ministry of Foreign Affairs, 1994-1995

Travel Grant from Gordon Research Conferences, 1998

Grant from the Korean Ministry of Sciences and Technology, 2001-2002.

Travel Grant from Gordon Research Conferences, 2002

Russian Foundation for Basic Research grants, 2012-2017

Russian Science Foundation grants, 2015-2017, 2017-2019 (prolonged to 2020-2021)

**REFEREEING SCIENTIFIC PAPERS**

Journal of Hazardous Materials, 2006, 2007

Journal of Food Biochemistry, 2007

QSAR & Combinatorial Science, 2007

Central European Journal of Chemistry, 2007, 2009, 2010, 2011, 2012

European Journal of Medicinal Chemistry, 2007, 2008, 2009, 2010, 2011, 2020

Journal of Chromatography A, 2008

MOLECULES, 2008, 2012, 2018, 2019, 2020

Current Medicinal Chemistry, 2009, 2011, 2019

Chemical Reviews, 2009

International Journal of Radiation Biology, 2010

Letters in Drug Design & Discovery, 2010

Journal of Food Science, 2010

Bioorganic & Medicinal Chemistry, 2010, 2011

Molecular Diversity, 2010, 2013, 2015

Current Bioinformatics, 2010

Journal of Advanced Research, 2011, 2012, 2013, 2014

Polyhedron, 2011, 2012, 2013, 2015, 2018, 2019, 2020

Biological Macromolecules, 2012

ACS Sustainable Chemistry & Engineering, 2012

Arabian Journal of Chemistry, 2013

Bulletin of the Chemical Society of Ethiopia, 2013

Journal of Molecular Structure, 2013, 2014, 2018

ChemistryOPEN, 2014, 2018

Journal of Pharmaceutical and Biomedical Analysis, 2018

Biomedicine & Pharmacotherapy, 2018

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**LIST OF SELECTED PUBLICATIONS**

*Full list of publications can be found at* [*http://www.researcherid.com/rid/L-9545-2014*](http://www.researcherid.com/rid/L-9545-2014)

1. Syatkin, S.P.; Neborak, E.V.; Khlebnikov, A.I.; Komarova, M.V.; Shevkun, N.A.; Kravtsov, E.G.; Blagonravov, M.L.; Agostinelli, E. The investigation of structure–activity relationship of polyamine-targeted synthetic compounds from different chemical groups. Amino Acids 2020, 52, 199–211; doi:10.1007/s00726-019-02778-3.
2. Kibler, E.; Lavrinenko, A.; Kolesnik, I.; Stankevich, K.; Bolbasov, E.; Kudryavtseva, V.; Leonov, A.; Schepetkin, I.; Khlebnikov, A.; Quinn, M.T.; Tverdokhlebov, S. Electrosprayed poly (lactic-co-glycolic acid) particles as a promising drug delivery system for the novel JNK inhibitor IQ-1. European Polymer Journal 2020, 127, 109598; doi:10.1016/j.eurpolymj.2020.109598.
3. Plotnikov, M.B.; Aliev, O.I.; Shamanaev, A.Y.; Sidekhmenova, A.V.; Anishchenko, A.M.; Fomina, T.I.; Rydchenko, V.S.; Khlebnikov, A.I.; Anfinogenova, Y.J.; Schepetkin, I.A.; Atochin, D.N. Antihypertensive activity of a new c-Jun N-terminal kinase inhibitor in spontaneously hypertensive rats. Hypertension Research 2020; doi:10.1038/s41440-020-0446-9.
4. Schepetkin, I.A.; Ozek, G.; Ozek, T.; Kirpotina, L.N.; Khlebnikov, A.I.; Quinn, M.T. Chemical Composition and Immunomodulatory Activity of Hypericum perforatum Essential Oils. Biomolecules 2020, 10, 916; doi:10.3390/biom10060916.
5. Kirpotina, L.N.; Schepetkin, I.A.; Hammaker, D.; Kuhs, A.; Khlebnikov, A.I.; Quinn, M.T. Therapeutic Effects of Tryptanthrin and Tryptanthrin-6-Oxime in Models of Rheumatoid Arthritis. Frontiers in Pharmacology 2020, 11, 1145; doi:10.3389/fphar.2020.01145.
6. Plotnikov, M.B.; Chernysheva, G.A.; Smolyakova, V.I.; Aliev, O.I.; Trofimova, E.S.; Sherstoboev, E.Y.; Osipenko, A.N.; Khlebnikov, A.I.; Anfinogenova, Y.J.; Schepetkin, I.A.; Atochin, D.N. Neuroprotective Effects of a Novel Inhibitor of c-Jun N-Terminal Kinase in the Rat Model of Transient Focal Cerebral Ischemia // Cells 2020, 9, 1860; doi:10.3390/cells9081860.
7. Crocetti, L.; Giovannoni, M.P.; Cantini, N.; Guerrini, G.; Vergelli, C.; Schepetkin, I.A.; Khlebnikov, A.I.; Quinn, M.T. Novel Sulfonamide Analogs of Sivelestat as Potent Human Neutrophil Elastase Inhibitors. Frontiers in Chemistry 2020, 8, 795; doi:10.3389/fchem.2020.00795.
8. Ghosh, M.; Schepetkin, I.A.; Ozek, G.; Ozek, T.; Khlebnikov, A.I.; Damron, D.S.; Quinn, M.T. Essential Oils from Monarda fistulosa: Chemical Composition and Activation of Transient Receptor Potential A1 (TRPA1) Channels. Molecules 2020, 25, 4873; doi:10.3390/molecules25214873.
9. Stankevich, K.S.; Schepetkin, I.A.; Goreninskii, S.I; Lavrinenko, A.K.;  Bolbasov, E.N.;  Kovrizhina, A.R.;  Kirpotina, L.N.;  Filimonov, V.D.;  Khlebnikov, A. I;  Tverdokhlebov, S.I;  Quinn, M.T. Poly(epsilon-caprolactone) Scaffolds Doped with c-Jun N-terminal Kinase Inhibitors Modulate Phagocyte Activation. *ACS Biomater-Sci. Eng.*, 2019, *5*(*11*), 5990–5999. DOI: [10.1021/ACSBIOMATERIALS.9B01401](https://doi.org/10.1021/ACSBIOMATERIALS.9B01401)
10. Plotnikov, M.B.;  Chernysheva, G.A.;  Aliev, O.I.;  Smol'iakova, V.I.;  Fomina, T.I.;  Osipenko, A.N.;  Rydchenko, V.S.;  Anfinogenova, Y.J.;  Khlebnikov, A. I.;  Schepetkin, I.A.;  Atochin, D.N. Protective Effects of a New C-Jun N-terminal Kinase Inhibitor in the Model of Global Cerebral Ischemia in Rats. *Molecules*, 2019, 24(9), 1722. DOI: [10.3390/MOLECULES24091722](https://doi.org/10.3390/MOLECULES24091722)
11. Khlebnikov, A.I;  Schepetkin; I.A.; Kishkentaeva; A.; Shaimerdenova; Z.; Atazhanova; G.;  Adekenov; S.;  Kirpotina; L.N.; Quinn, M.T. Inhibition of T Cell Receptor Activation by Semi-Synthetic Sesquiterpene Lactone Derivatives and Molecular Modeling of Their Interaction with Glutathione and Tyrosine Kinase ZAP-70. *Molecules*, 2019, *24(2)*, 350. DOI: [10.3390/MOLECULES24020350](https://doi.org/10.3390/MOLECULES24020350)
12. Schepetkin, I.A.;  Khlebnikov, A.I.;  Potapov, A.S.;  Kovrizhina, A.R.;  Matveevskaya, V.V.;  Belyanin, M. L.;  Atochin, D.N.;  Zanoza, S. O.;  Gaidarzhy, N.M.;  Lyakhov, S.A.;  Kirpotina, L.N.;  Quinn, M.T. Synthesis, biological evaluation, and molecular modeling of 11H-indeno[1,2-b]quinoxalin-11-one derivatives and tryptanthrin-6-oxime as c-Jun N-terminal kinase inhibitors. *Eur. J. Med. Chem*., 2019, *161*, 179-191. DOI: [10.1016/J.EJMECH.2018.10.023](https://doi.org/10.1016/J.EJMECH.2018.10.023)
13. Rydchenko, V.;  Anfinogenova, Y. J.;  Gusakova, S. V.;  Khlebnikov, A. I.;  Schepetkin, I. A.;  Atochin, D. N. Vascular reactivity modulation of isolated rat carotid arteries by novel c-Jun N-terminal kinase inhibitor IQ-IS. *J. Cereb. Blood Flow Metab*., 2019.
14. Giovannoni, M.P.;  Cantini, N.;  Crocetti, L.;  Guerrini, G.;  Iacovone, A.;  Schepetkin, I.A.;  Vergelli, C.;  Khlebnikov, A.I.;  Quinn, M.T. Further modifications of 1H-pyrrolo[2,3-b]pyridine derivatives as inhibitors of human neutrophil elastase. *Drug Dev. Res*.,2019, *80(5)*, 617-628. DOI: [10.1002/DDR.21539](https://doi.org/10.1002/DDR.21539)
15. Ogurkova, O. N.;  Anfinogenova, Y. J.;  Khlebnikov, A. I.;  Schepetkin, I. A.;  Suslova, T. E.;  Atochin, D. N. Novel c-Jun N-terminal kinase inhibitor IQ-1S modulates human platelet aggregation. *J. Cereb. Blood Flow Metab*., 2019.
16. Atochin, D. N.;  Chernysheva, G. A.;  Smolyakova, V. I.;  Aliev, O. I.;  Osipenko, A. N.;  Khlebnikov, A. I.;  Anfinogenova, Y. J.;  Schepetkin, I. A.;  Plotnikov, M. B. Neuroprotective effects of IQ-1S in the model of global cerebral ischemia/reperfusion. *J. Cereb. Blood Flow Metab*.,2019.
17. Schepetkin, I.A.;  Kirpotina, L. N.;  Khlebnikov, A.I.;  Balasubramanian, N.;  Quinn, M.T. Neutrophil Immunomodulatory Activity of Natural Organosulfur Compounds. *Molecules*, 2019, *24(9),* 1809. DOI: [10.3390/MOLECULES24091809](https://doi.org/10.3390/MOLECULES24091809)
18. Bakholdina, L. A.; Markova, A. A.; Khlebnikov, A., I; Sevodin, V. P. Cytotoxicity of New Ferulic-Acid Derivatives on Human Colon Carcinoma (HCT116) Cells. *Pharm. Chem. J*., 2019, *53*,  516–520. DOI: [10.1007/S11094-019-02030-Y](https://doi.org/10.1007/S11094-019-02030-Y)
19. Schepetkin, I. A.;  Karpenko, A.S.;  Khlebnikov, A.I.;  Shibinska, M.O.;  Levandovskiy, I.A.;  Kirpotina, L.N.;  Danilenko, N.V.;  Quinn, M.T. Synthesis, anticancer activity, and molecular modeling of 1,4-naphthoquinones that inhibit MKK7 and Cdc25. *Eur. J. Med. Chem*., 2019, *183*, 111719. DOI: [10.1016/J.EJMECH.2019.111719](https://doi.org/10.1016/J.EJMECH.2019.111719)
20. Nurkenov, O. A.;  Ibraev, M. K.;  Schepetkin, I. A.;  Khlebnikov, A. I.;  Seilkhanov, T. M.;  Arinova, A. E.;  Isabaeva, M. B. Synthesis, Structure, and Anti-Inflammatory Activity of Functionally Substituted Chalcones and Their Derivatives. *Russ. J. Gen. Chem.,* 2019, *89*,  1360–1367. DOI: [10.1134/S1070363219070028](https://doi.org/10.1134/S1070363219070028)
21. Crocetti, L.;  Giovannoni, M.P.;  Schepetkin, I.A.;  Quinn, M.T.;  Khlebnikov, A.I;  Cantini, N.;  Guerrini, G.;  Iacovone, A.;  Teodori, E.;  Vergelli, C.. 1H-pyrrolo[2,3-b]pyridine: A new scaffold for human neutrophil elastase (HNE) inhibitors. *Bioorg. Med. Chem.,* 2018, *26(21)*, 5583-5595. DOI: [10.1016/J.BMC.2018.09.034](https://doi.org/10.1016/J.BMC.2018.09.034)
22. Nurkenov, O. A.;  Satpaeva, Z. B.;  Schepetkin, I. A.;  Khlebnikov, A. I.;  Turdybekov, K. M.;  Seilkhanov, T. M.;  Fazylov, S. D. Synthesis and Biological Activity of Hydrazones of o- and p-Hydroxybenzoic Acids. Spatial Structure of 5-Bromo-2-hydroxybenzylidene-4-hydroxybenzohydrazide. *Russ. J. Gen. Chem* ., 2017, *87*,  2299–2306. DOI: [10.1134/S1070363217100097](https://doi.org/10.1134/S1070363217100097)
23. Crocetti, L.; Bartolucci, G.; Cilibrizzi, A.; Giovannoni, M.P.; Guerrini, G.; Iacovone, A.; Menicatti, M.; Schepetkin, I.A.; Khlebnikov, A.I.; Quinn, M.T.; Vergelli, C. Synthesis and analytical characterization of new thiazol-2-(3H)-ones as human neutrophil elastase (HNE) inhibitors. *Chem. Cent. J.,* 2017, *11*, 127. doi: 10.1186/s13065-017-0358-1.
24. Kirpotina, L.N.; Schepetkin, I.A.; Khlebnikov, A.I.; Ruban, O.I.; Ge, Y.J.; Ye, R.D.; Kominsky, D.J.; Quinn, M.T. 4-Aroyl-3-hydroxy-5-phenyl-1H-pyrrol-2(5H)-ones as N-formyl peptide receptor 1 (FPR1) antagonists. *Biochem. Pharmacol.,* 2017, *142*, 120-132. DOI: [10.1016/J.BCP.2017.07.004](https://doi.org/10.1016/J.BCP.2017.07.004)
25. Ozek, G.; Schepetkin, I.A.; Utegenova, G.A.; Kirpotina, L.N.; Andrei, S.R.; Ozek, T.; Baser, K.H.C.; Abidkulova, K.T.; Kushnarenko, S.V.; Khlebnikov, A.I.; Damron, D.S.; Quinn, M.T. Chemical composition and phagocyte immunomodulatory activity of Ferula iliensis essential oils. *J. Leuko. Biol.* ,2017, *101*, 1361-1371. DOI: [10.1189/JLB.3A1216-518RR](https://doi.org/10.1189/JLB.3A1216-518RR)
26. Vergelli, C.; Schepetkin, I.A.; Crocetti, L.; Iacovone, A.; Giovannoni, M.P.; Guerrini, G.; Khlebnikov, A.I.; Ciattini, S.; Ciciani, G.; Quinn, M.T. Isoxazol-5(2H)-one: a new scaffold for potent human neutrophil elastase (HNE) inhibitors. *J. Enzyme Inhib. Med.,* 2017, *32*, 821-831. DOI: [10.1080/14756366.2017.1326915](https://doi.org/10.1080/14756366.2017.1326915)
27. Khlebnikov, A. I.;  Schepetkin, I. A.;  Schepetkin, I. A.;  Chernova, N. P.;  Anosova, G. A.;  Potapov, A. S.;  Atochin, D. Synthesis, Characterization and Superoxide Dismutase-like Activity of Novel Cu(II), Ni(II), Co(II), and Zn(II) Complexes with 11H-Indeno[1,2-b]quinoxalin-11-one Oxime Ligand*. Mol. Biol. Cell*.,2017.
28. Schepetkin, I.A.; Kushnarenko, S.V.; Ozek, G.; Kirpotina, L.N.; Sinharoy, P.; Utegenova, G.A.; Abidkulova, K.T.; Ozek, T.; Baser, K.H.C.; Kovrizhina, A.R.; Khlebnikov, A.I.; Damron, D.S.; Quinn, M.T. Modulation of Human Neutrophil Responses by the Essential Oils from Ferula akitschkensis and Their Constituents. *J. Agric. Food Chem*., 2016, *64*, 7156-7170. DOI: [10.1021/ACS.JAFC.6B03205](https://doi.org/10.1021/ACS.JAFC.6B03205)
29. Semitut, E.Y.;  Komarov, V.Y.;  Filatov, E.Y.;  Kuznetsova, A.S.;  Khlebnikov, A.I.;  Potapov, A.S. Synthesis and structural characterization of copper(II) coordination polymers with 1,1,2,2-tetra(pyrazol-1-yl)ethane. *Inorg. Chem. Commun.,* 2016, *64*, 23. DOI: [10.1016/J.INOCHE.2016.06.026](https://doi.org/10.1016/J.INOCHE.2016.06.026)
30. Zatonskaya, L.V.;  Schepetkin, I.A.;  Petrenko, T.V.;  Ogorodnikov, V.D.;  Khlebnikov, A. I.;  Potapov, A. S. Synthesis and Cytotoxicity of bis(pyrazol-1-yl)-Alkane Derivatives with Polymethylene Linkers and Related Mono- and Dipyrazolium Salts. *Chem. Heterocycl. Compd.,* 2016, *52*, 388-401. DOI: [10.1007/S10593-016-1900-0](https://doi.org/10.1007/S10593-016-1900-0)
31. Schepetkin, I.A.; Khlebnikov, A.I.; Kirpotina, L.N.; Quinn, M.T. Antagonism of human formyl peptide receptor 1 with natural compounds and their synthetic derivatives. *Int. Immunopharmacol.,* 2016, *37*, 43-58. DOI: [10.1016/J.INTIMP.2015.08.036](https://doi.org/10.1016/J.INTIMP.2015.08.036)
32. Vergelli, C,; Schepetkin, I.A.; Ciciani, G.; Cilibrizzi, A. Crocetti, L.; Giovannoni, M.P.; Guerrini, G.; Iacovone, A.; Kirpotina, L.N.; Khlebnikov, A.I.; Ye, R.D.; Quinn, M.T. 2-Arylacetamido-4-phenylamino-5-substituted pyridazinones as formyl peptide receptors agonists. *Bioorg. Med. Chem.,* 2016, *24*, 2530-2543. DOI: [10.1016/J.BMC.2016.04.019](https://doi.org/10.1016/J.BMC.2016.04.019)
33. Bakholdina, L. A.;  Khlebnikov, A. I.;  Sevodin, V. P.  Mild reaction of primary alcohols with ferulic acid. *Russ. J. Org. Chem.,* 2016, *52*, 441-443. DOI: [10.1134/S1070428016030258](https://doi.org/10.1134/S1070428016030258)
34. Atochin, D.N.;  Schepetkin, I.A.;  Khlebnikov, A. I.;  Seledtsov, V.I.;  Swanson, H.;  Quinn, M.T.;  Huang, P.L. A novel dual NO-donating oxime and c-Jun N-terminal kinase inhibitor protects against cerebral ischemia-reperfusion injury in mice. *Neuroscience Letters*, 2016, *618,* 45-49. DOI: [10.1016/J.NEULET.2016.02.033](https://doi.org/10.1016/J.NEULET.2016.02.033)
35. Giovannoni, M.P.; Schepetkin, I.A.; Crocetti, L.; Ciciani, G.; Cilibrizzi, A.; Guerrini, G.; Khlebnikov, A.I.; Quinn, M.T.; Vergelli, C. Cinnoline derivatives as human neutrophil elastase inhibitors*. J. Enzyme Inhib. Med.,*2016, *31*, 628-639. DOI: [10.3109/14756366.2015.1057718](https://doi.org/10.3109/14756366.2015.1057718)
36. Crocetti, L.;  Schepetkin, I.A.;  Ciciani, G.;  Giovannoni, M.P.;  Guerrini, G.;  Iacovone, A.;  Khlebnikov, A.I.;  Kirpotina, L.N.;  Quinn, M. T.;  Vergelli, C. Synthesis and Pharmacological Evaluation of Indole Derivatives as Deaza Analogues of Potent Human Neutrophil Elastase Inhibitors. *Drug Dev. Res* .,2016, *77(6),* 285-299. DOI: [10.1002/DDR.21323](https://doi.org/10.1002/DDR.21323)
37. Lacivita, E.; Schepetkin, I.A.; Stama, M.L.; Kirpotina, L.N.; Colabufo, N.A.; Perrone, R.; Khlebnikov, A.I.; Quinn, M.T.; Leopoldo, M. Novel 3-(1H-indol-3-yl)-2-[3-(4-methoxyphenyl)ureido]-propanamides as selective agonists of human formyl-peptide receptor 2. *Bioorg. Med. Chem.,* 2015, *23*, 3913-3924. DOI: [10.1016/J.BMC.2014.12.007](https://doi.org/10.1016/J.BMC.2014.12.007)
38. Schepetkin, I.A.; Kirpotina, L.N.; Hammaker, D.; Kochetkova, I.; Khlebnikov, A.I.; Lyakhov, S.A.; Firestein, G.S.; Quinn, M.T. Anti-Inflammatory Effects and Joint Protection in Collagen-Induced Arthritis after Treatment with IQ-1S, a Selective c-Jun N-Terminal Kinase Inhibitor. *J. Pharmacol. Exp. Ther.,* 2015, *353*, 505-516. DOI: [10.1124/JPET.114.220251](https://doi.org/10.1124/JPET.114.220251)
39. Potapov, A.S. ; Nudnova, E.A.;  Khlebnikov, A.I.;  Ogorodnikov, V.D.;  Petrenko, T.V. Synthesis, crystal structure and electrocatalytic activity of discrete and polymeric copper(II) complexes with bitopic bis(pyrazol-1-yl)methane ligands. *Inorg. Chem. Commun.,* 2015, *53*, 72-75. DOI: [10.1016/J.INOCHE.2015.01.024](https://doi.org/10.1016/J.INOCHE.2015.01.024)
40. Schepetkin, I.A.;  Kirpotina, L.N.;  Khlebnikov, A.I.;  Cheng, N.;  Ye, R. D.;  Quinn, M.T. Antagonism of human formyl peptide receptor 1 (FPR1) by chromones and related isoflavones. *Biochemical Pharmacology* , 2014, *92(4),* 627-641. DOI: [10.1016/J.BCP.2014.09.027](https://doi.org/10.1016/J.BCP.2014.09.027)
41. Ansari, D.;  Urey, C.;  Hilmersson, K.S.;  Bauden, M.P.;  Ek, F.;  Olsson, R.;  Andersson, R. Synthesis, characterization and potent superoxide dismutase-like activity of novel bis(pyrazole)–2,2′-bipyridyl mixed ligand copper(ii) complexes. *Anticancer Research*, 2014, *13*, 4488-4498. DOI: [10.1039/B900869A](https://doi.org/10.1039/B900869A)
42. Schepetkin, I. A.;  Khlebnikov, A. I.;  Giovannoni, M. P.;  Kirpotina, L. N.;  Cilibrizzi, A.;  Quinn, M. T. Development of Small Molecule Non-peptide Formyl Peptide Receptor (FPR) Ligands and Molecular Modeling of Their Recognition. *Curr. Med. Chem.,* 2014, *21(13)*, 1478-1504. DOI: [10.2174/0929867321666131218095521](https://doi.org/10.2174/0929867321666131218095521)
43. Potapov, A.S.;  Chernova, N.P.;  Ogorodnikov, V.D.;  Petrenko, T.V.;  Khlebnikov, A. I. Facile Synthesis of Pyrazole- and Benzotriazole-Containing Selenoethers. *Sci. World J.,* 2014, *2014*, 1-5, Article ID 578762. DOI: [10.1155/2014/578762](https://doi.org/10.1155/2014/578762)
44. Schepetkin, I.A.; Kirpotina, L.N.; Khlebnikov, A.I.; Leopoldo, M.; Lucente, E.; Lacivita, E.; Giorgio, P.D.; Quinn, M.T. 3-(1H-indol-3-yl)-2-[3-(4-nitrophenyl)ureido]propanamide enantiomers with human formyl-peptide receptor agonist activity: Molecular modeling of chiral recognition by FPR2. *Biochem. Pharmacol.,* 2013, *85,* 404-416. DOI: [10.1016/J.BCP.2012.11.015](https://doi.org/10.1016/J.BCP.2012.11.015)
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