# Xavier Brazzolotto

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2021293/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 47 papers | 2,309 citations | 279487 23 h-index | 214527 47 g-index |
| 48 all docs | 48 docs citations | 48 times ranked | 2704 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Genetic ablations of iron regulatory proteins 1 and 2 reveal why iron regulatory protein 2 dominates iron homeostasis. EMBO Journal, 2004, 23, 386-395. | 3.5 | 361 |
| 2 | Comparison of the Binding of Reversible Inhibitors to Human Butyrylcholinesterase and Acetylcholinesterase: A Crystallographic, Kinetic and Calorimetric Study. Molecules, 2017, 22, 2098. | 1.7 | 179 |
| 3 | Biochemical characterization of the HydE and HydG iron-only hydrogenase maturation enzymes fromThermatoga maritima. FEBS Letters, 2005, 579, 5055-5060. | 1.3 | 142 |
| 4 | Progress in the development of enzyme-based nerve agent bioscavengers. Chemico-Biological Interactions, 2013, 206, 536-544. | 1.7 | 138 |
| 5 | The [Fe-Fe]-Hydrogenase Maturation Protein HydF from Thermotoga maritima Is a GTPase with an Iron-Sulfur Cluster. Journal of Biological Chemistry, 2006, 281, 769-774. | 1.6 | 119 |
| 6 | Discovery and Structureâ€“Activity Relationships of a Highly Selective Butyrylcholinesterase Inhibitor by Structure-Based Virtual Screening. Journal of Medicinal Chemistry, 2016, 59, 7683-7689. | 2.9 | 115 |
| 7 | The Magic of Crystal Structure-Based Inhibitor Optimization: Development of a Butyrylcholinesterase Inhibitor with Picomolar Affinity and in Vivo Activity. Journal of Medicinal Chemistry, 2018, 61, 119-139. | 2.9 | 112 |
| 8 | Development of an in-vivo active reversible butyrylcholinesterase inhibitor. Scientific Reports, 2016, 6, 39495. | 1.6 | 105 |
| 9 | Human Cytoplasmic Aconitase (Iron Regulatory Protein 1) Is Converted into Its [3Fe-4S] Form by Hydrogen Peroxide in Vitro but Is Not Activated for Iron-responsive Element Binding. Journal of Biological Chemistry, 1999, 274, 21625-21630. | 1.6 | 104 |
| 10 | Human butyrylcholinesterase produced in insect cells: huprineâ€based affinity purification and crystal structure. FEBS Journal, 2012, 279, 2905-2916. | 2.2 | 91 |
| 11 | Novel tacrine-tryptophan hybrids: Multi-target directed ligands as potential treatment for Alzheimer's disease. European Journal of Medicinal Chemistry, 2019, 168, 491-514. | 2.6 | 75 |
| 12 | Multi-target-directed ligands for treating Alzheimer's disease: Butyrylcholinesterase inhibitors displaying antioxidant and neuroprotective activities. European Journal of Medicinal Chemistry, 2018, 156, 598-617. | 2.6 | 72 |
| 13 | Tryptophan-derived butyrylcholinesterase inhibitors as promising leads against Alzheimer's disease. Chemical Communications, 2019, 55, 3765-3768. | 2.2 | 60 |
| 14 | Peroxynitrite and Nitric Oxide Differently Target the Ironâ^'Sulfur Cluster and Amino Acid Residues of Human Iron Regulatory Protein 1â€. Biochemistry, 2003, 42, 7648-7654. | 1.2 | 53 |
| 15 | Structure-based development of nitroxoline derivatives as potential multifunctional anti-Alzheimer agents. Bioorganic and Medicinal Chemistry, 2015, 23, 4442-4452. | 1.4 | 50 |
| 16 | Organophosphate hydrolases as catalytic bioscavengers of organophosphorus nerve agents. Toxicology Letters, 2011, 206, 14-23. | 0.4 | 49 |
| 17 | N-Propargylpiperidines with naphthalene-2-carboxamide or naphthalene-2-sulfonamide moieties: Potential multifunctional anti-Alzheimerâ€™s agents. Bioorganic and Medicinal Chemistry, 2017, 25, 633-645. | 1.4 | 49 |
| 18 | Discovery of a Potent Dual Inhibitor of Acetylcholinesterase and Butyrylcholinesterase with Antioxidant Activity that Alleviates Alzheimer-like Pathology in Old APP/PS1 Mice. Journal of Medicinal Chemistry, 2021, 64, 812-839. | 2.9 | 45 |

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|---|---|---|---|
| 19 | N-alkylpiperidine carbamates as potential anti-Alzheimerâ€™s agents. European Journal of Medicinal Chemistry, 2020, 197, 112282. | 2.6 | 33 |
| 20 | Structural Changes Associated with Switching Activities of Human Iron Regulatory Protein 1. Journal of Biological Chemistry, 2002, 277, 11995-12000. | 1.6 | 29 |
| 21 | Bacterial Expression of Human Butyrylcholinesterase as a Tool for Nerve Agent Bioscavengers Development. Molecules, 2017, 22, 1828. | 1.7 | 28 |
| 22 | Crystal Structure of the Vaccinia Virus DNA Polymerase Holoenzyme Subunit D4 in Complex with the A20 N-Terminal Domain. PLoS Pathogens, 2014, 10, e1003978. | 2.1 | 27 |
| 23 | Rivastigmine and metabolite analogues with putative Alzheimerâ€™s disease-modifying properties in a Caenorhabditis elegans model. Communications Chemistry, 2019, 2, . | 2.0 | 25 |
| 24 | An EPR/HYSCORE, MÃ¶ssbauer, and resonance Raman study of the hydrogenase maturation enzyme HydF: a model for N-coordination to [4Feâ€“4S] clusters. Journal of Biological Inorganic Chemistry, 2014, 19, 75-84. | 1.1 | 24 |
| 25 | Interactions between doxorubicin and the human iron regulatory system. Biochimica Et Biophysica Acta - Molecular Cell Research, 2003, 1593, 209-218. | 1.9 | 23 |
| 26 | Three conserved histidine residues contribute to mitochondrial iron transport through mitoferrins. Biochemical Journal, 2014, 460, 79-92. | 1.7 | 22 |
| 27 | Structure-activity relationship study of tryptophan-based butyrylcholinesterase inhibitors. European Journal of Medicinal Chemistry, 2020, 208, 112766. | 2.6 | 17 |
| 28 | Development of potent reversible selective inhibitors of butyrylcholinesterase as fluorescent probes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 498-505. | 2.5 | 16 |
| 29 | Discovery of multifunctional anti-Alzheimerâ€™s agents with a unique mechanism of action including inhibition of the enzyme butyrylcholinesterase and Î³-aminobutyric acid transporters. European Journal of Medicinal Chemistry, 2021, 218, 113397. | 2.6 | 14 |
| 30 | Development and crystallography-aided SAR studies of multifunctional BuChE inhibitors and 5-HT6R antagonists with Î²-amyloid anti-aggregation properties. European Journal of Medicinal Chemistry, 2021, 225, 113792. | 2.6 | 13 |
| 31 | Efficacy Assessment of an Uncharged Reactivator of NOP-Inhibited Acetylcholinesterase Based on Tetrahydroacridine Pyridine-Aldoxime Hybrid in Mouse Compared to Pralidoxime. Biomolecules, 2020, 10, 858. | 1.8 | 12 |
| 32 | Enantioseparation, in vitro testing, and structural characterization of triple-binding reactivators of organophosphate-inhibited cholinesterases. Biochemical Journal, 2020, 477, 2771-2790. | 1.7 | 12 |
| 33 | Diisopropylfluorophosphate-induced status epilepticus drives complex glial cell phenotypes in adult male mice. Neurobiology of Disease, 2021, 152, 105276. | 2.1 | 11 |
| 34 | Discovery of 1-(phenylsulfonyl)-1H-indole-based multifunctional ligands targeting cholinesterases and 5-HT6 receptor with anti-aggregation properties against amyloid-beta and tau. European Journal of Medicinal Chemistry, 2021, 225, 113783. | 2.6 | 11 |
| 35 | From tryptophan-based amides to tertiary amines: Optimization of a butyrylcholinesterase inhibitor series. European Journal of Medicinal Chemistry, 2022, 234, 114248. | 2.6 | 11 |
| 36 | Interaction of Ubinuclein-1, a nuclear and adhesion junction protein, with the 14-3-3 epsilon protein in epithelial cells: Implication of the PKA pathway. European Journal of Cell Biology, 2013, 92, 105-111. | 1.6 | 10 |

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|---|---|---|---|
| 37 | Purification of recombinant human butyrylcholinesterase on HupresinÂ®. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1102-1103, 109-115. | 1.2 | 9 |
| 38 | Fine-Tuning the Biological Profile of Multitarget Mitochondriotropic Antioxidants for Neurodegenerative Diseases. Antioxidants, 2021, 10, 329. | 2.2 | 9 |
| 39 | Structural analysis of point mutations at theVaccinia virusA20/D4 interface. Acta Crystallographica Section F, Structural Biology Communications, 2016, 72, 687-691. | 0.4 | 7 |
| 40 | X-ray structures of human bile-salt activated lipase conjugated to nerve agents surrogates. Toxicology, 2019, 411, 15-23. | 2.0 | 7 |
| 41 | Rapid discovery of a selective butyrylcholinesterase inhibitor using structure-based virtual screening. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 127609. | 1.0 | 6 |
| 42 | Discovery of drugâ€like acetylcholinesterase inhibitors by rapid virtual screening of a 6.9Âmillion compound database. Chemical Biology and Drug Design, 2021, 97, 1048-1058. | 1.5 | 4 |
| 43 | An evolutionary perspective on the first disulfide bond in members of the cholinesterase-carboxylesterase (COesterase) family: Possible outcomes for cholinesterase expression in prokaryotes. Chemico-Biological Interactions, 2019, 308, 179-184. | 1.7 | 3 |
| 44 | The Saccharomyces cerevisiae ADP/ATP carrier-iso 1 cytochrome c fusion protein: One-step purification and functional analysis in vitro. Biochimie, 2007, 89, 1070-1079. | 1.3 | 2 |
| 45 | A micromolar O-sulfated thiohydroximate inhibitor bound to plant myrosinase. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 152-155. | 0.7 | 2 |
| 46 | Characterization of four BCHE mutations associated with prolonged effect of suxamethonium. Pharmacogenomics Journal, 2021, 21, 165-173. | 0.9 | 2 |
| 47 | A Thermophilic Bacterial Esterase for Scavenging Nerve Agents: A Kinetic, Biophysical and Structural Study. Molecules, 2021, 26, 657. | 1.7 | 1 |