Gianni Colotti

List of Publications by Year in descending order

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97 papers	3,100 citations	136950 32 h-index	175258 52 g-index
97 all docs	97 docs citations	97 times ranked	4037 citing authors

#	Article	IF	Citations
1	Neuropilinâ€1 is required for endothelial cell adhesion to soluble vascular endothelial growth factor receptor 1. FEBS Journal, 2022, 289, 183-198.	4.7	7
2	Targeting the anti-apoptotic Bcl-2 family proteins: machine learning virtual screening and biological evaluation of new small molecules. Theranostics, 2022, 12, 2427-2444.	10.0	12
3	<scp>ERp57</scp> chaperon protein protects neuronal cells from AÎ²â€induced toxicity. Journal of Neurochemistry, 2022, 162, 322-336.	3.9	6
4	Taxanes in cancer treatment: Activity, chemoresistance and its overcoming. Drug Resistance Updates, 2021, 54, 100742.	14.4	121
5	Isolation and preliminary characterization of a human â€˜phage displayâ€™-derived antibody against neural adhesion molecule-1 antigen interfering with fibroblast growth factor receptor-1 binding. Human Antibodies, 2021, 29, 63-84.	1.5	2
6	Structural basis of ubiquitination mediated by protein splicing in early Eukarya. Biochimica Et Biophysica Acta - General Subjects, 2021, 1865, 129844.	2.4	2
7	Known Drugs Identified by Structure-Based Virtual Screening Are Able to Bind Sigma-1 Receptor and Increase Growth of Huntington Disease Patient-Derived Cells. International Journal of Molecular Sciences, 2021, 22, 1293.	4.1	5
8	Huntingtin Ubiquitination Mechanisms and Novel Possible Therapies to Decrease the Toxic Effects of Mutated Huntingtin. Journal of Personalized Medicine, 2021, 11, 1309.	2.5	4
9	Structure-guided approach to identify a novel class of anti-leishmaniasis diaryl sulfide compounds targeting the trypanothione metabolism. Amino Acids, 2020, 52, 247-259.	2.7	15
10	Sorcin is an early marker of neurodegeneration, Ca2+ dysregulation and endoplasmic reticulum stress associated to neurodegenerative diseases. Cell Death and Disease, 2020, 11, 861.	6.3	29
11	The central role of gut microbiota in drug metabolism and personalized medicine. Future Medicinal Chemistry, 2020, 12, 1197-1200.	2.3	11
12	Targeting Trypanothione Reductase, a Key Enzyme in the Redox Trypanosomatid Metabolism, to Develop New Drugs against Leishmaniasis and Trypanosomiases. Molecules, 2020, 25, 1924.	3.8	74
13	Profiling calcium-dependent interactions between Sorcin and intrinsically disordered regions of human proteome. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129618.	2.4	6
14	Discovery of the First Human Arylsulfatase A Reversible Inhibitor Impairing Mouse Oocyte Fertilization. ACS Chemical Biology, 2020, 15, 1349-1357.	3.4	4
15	Exogenous peptides are able to penetrate human cell and mitochondrial membranes, stabilize mitochondrial tRNA structures, and rescue severe mitochondrial defects. FASEB Journal, 2020, 34, 7675-7686.	0.5	6
16	Roles of Sorcin in Drug Resistance in Cancer: One Protein, Many Mechanisms, for a Novel Potential Anticancer Drug Target. Cancers, 2020, 12, 887.	3.7	25
17	Spiro-containing derivatives show antiparasitic activity against Trypanosoma brucei through inhibition of the trypanothione reductase enzyme. PLoS Neglected Tropical Diseases, 2020, 14, e0008339.	3.0	13
18	Use of organoids in medicinal chemistry: challenges on ethics and biosecurity. Future Medicinal Chemistry, 2019, 11, 1087-1090.	2.3	8

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19	NMR structure of a non-conjugatable, ADP-ribosylation associated, ubiquitin-like domain from Tetrahymena thermophila polyubiquitin locus. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 749-759.	2.4	1
20	Small Molecule Inhibitors of KDM5 Histone Demethylases Increase the Radiosensitivity of Breast Cancer Cells Overexpressing JARID1B. Molecules, 2019, 24, 1739.	3.8	25
21	Bioinformatics analysis of Ras homologue enriched in the striatum, a potential target for Huntington's disease therapy. International Journal of Molecular Medicine, 2019, 44, 2223-2233.	4.0	9
22	The presence of glutamate residues on the PAS sequence of the stimuli-sensitive nano-ferritin improves in vivo biodistribution and mitoxantrone encapsulation homogeneity. Journal of Controlled Release, 2018, 275, 177-185.	9.9	41
23	Small molecules targeted to the microtubuleâ€“Hec1 interaction inhibit cancer cell growth through microtubule stabilization. Oncogene, 2018, 37, 231-240.	5.9	18
24	Identification of chalcone-based antileishmanial agents targeting trypanothione reductase. European Journal of Medicinal Chemistry, 2018, 152, 527-541.	5.5	57
25	N6L pseudopeptide interferes with nucleophosmin protein-protein interactions and sensitizes leukemic cells to chemotherapy. Cancer Letters, 2018, 412, 272-282.	7.2	10
26	Peptide-based development of PKA activators. New Journal of Chemistry, 2018, 42, 18585-18597.	2.8	2
27	Identification and binding mode of a novel Leishmania Trypanothione reductase inhibitor from high throughput screening. PLoS Neglected Tropical Diseases, 2018, 12, e0006969.	3.0	51
28	Metal- and metalloid-containing drugs for the treatment of trypanosomatid diseases. Frontiers in Bioscience - Landmark, 2018, 23, 954-966.	3.0	11
29	Toward a Drug Against All Kinetoplastids: From LeishBox to Specific and Potent Trypanothione Reductase Inhibitors. Molecular Pharmaceutics, 2018, 15, 3069-3078.	4.6	22
30	Molecular bases of Sorcin-dependent resistance to chemotherapeutic agents. , 2018, , .		2
31	Sorcin. , 2018, , 5084-5093.		0
32	A22â€…Sorcin rescues ca (II) dysregulation and endoplasmic reticulum stress in huntingtonâ€™s disease. , 2018, , .		0
33	Inhibition of Leishmania infantum trypanothione reductase by diaryl sulfide derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 304-310.	5.2	60
34	Glucose transportation in the brain and its impairment in Huntington disease: one more shade of the energetic metabolism failure?. Amino Acids, 2017, 49, 1147-1157.	2.7	20
35	Small Molecules Targeting the miRNA-Binding Domain of Argonaute 2: From Computer-Aided Molecular Design to RNA Immunoprecipitation. Methods in Molecular Biology, 2017, 1517, 211-221.	0.9	1
36	Surface Plasmon Resonance: A Useful Strategy for the Identification of Small Molecule Argonaute 2 Protein Binders. Methods in Molecular Biology, 2017, 1517, 223-237.	0.9	4

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37	Polyamine-trypanothione pathway: an update. Future Medicinal Chemistry, 2017, 9, 61-77.	2.3	71
38	Not only P-glycoprotein: Amplification of the ABCB1- containing chromosome region 7q21 confers multidrug resistance upon cancer cells by coordinated overexpression of an assortment of resistance-related proteins. Drug Resistance Updates, 2017, 32, 23-46.	14.4	109
39	Binding of doxorubicin to Sorcin impairs cell death and increases drug resistance in cancer cells. Cell Death and Disease, 2017, 8, e2950-e2950.	6.3	41
40	Use of Ferritin-Based Metal-Encapsulated Nanocarriers as Anticancer Agents. Applied Sciences (Switzerland), 2017, 7, 101.	2.5	13
41	Identification of small molecule inhibitors of the Aurora-A/TPX2 complex. Oncotarget, 2017, 8, 32117-32133.	1.8	23
42	Quality-based model for Life Sciences research guidelines. Accreditation and Quality Assurance, 2016, 21, 221-230.	0.8	16
43	Selective delivery of doxorubicin by novel stimuli-sensitive nano-ferritins overcomes tumor refractoriness. Journal of Controlled Release, 2016, 239, 10-18.	9.9	60
44	Short peptides from leucyl-tRNA synthetase rescue disease-causing mitochondrial tRNA point mutations. Human Molecular Genetics, 2016, 25, 903-915.	2.9	19
45	Sorcin. , 2016, , 1-9.		0
46	Structural basis of Sorcin-mediated calcium-dependent signal transduction. Scientific Reports, 2015, 5, 16828.	3.3	46
47	Leishmania infantum trypanothione reductase is a promiscuous enzyme carrying an NADPH:O2 oxidoreductase activity shared by glutathione reductase. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 1891-1897.	2.4	15
48	Applying Quality and Project Management methodologies in biomedical research laboratories: a public research networkâ€™s case study. Accreditation and Quality Assurance, 2015, 20, 203-213.	0.8	27
49	Structure-based discovery of the first non-covalent inhibitors of Leishmania major tryparedoxin peroxidase by high throughput docking. Scientific Reports, 2015, 5, 9705.	3.3	58
50	Applying Design of Experiments Methodology to PEI Toxicity Assay on Neural Progenitor Cells. , 2015, , 45-63.		5
51	The multiple cellular functions of the oncoprotein Golgi phosphoprotein 3. Oncotarget, 2015, 6, 3493-3506.	1.8	47
52	Targeting Polyamine Metabolism for Finding New Drugs Against Leishmaniasis: A Review. Mini-Reviews in Medicinal Chemistry, 2015, 15, 243-252.	2.4	30
53	Sorcin Links Calcium Signaling to Vesicle Trafficking, Regulates Polo-Like Kinase 1 and Is Necessary for Mitosis. PLoS ONE, 2014, 9, e85438.	2.5	43
54	GOLPH3 Is Essential for Contractile Ring Formation and Rab11 Localization to the Cleavage Site during Cytokinesis in Drosophila melanogaster. PLoS Genetics, 2014, 10, e1004305.	3.5	49

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55	The isolated carboxyâ€terminal domain of human mitochondrial leucylâ€<scp>tRNA</scp> synthetase rescues the pathological phenotype of mitochondrial <scp>tRNA</scp> mutations in human cells. EMBO Molecular Medicine, 2014, 6, 169-182.	6.9	43
56	A Small-Molecule Targeting the MicroRNA Binding Domain of Argonaute 2 improves the Retinoic Acid Differentiation Response of the Acute Promyelocytic Leukemia Cell Line NB4. ACS Chemical Biology, 2014, 9, 1674-1679.	3.4	29
57	Sorcin, a Calcium Binding Protein Involved in the Multidrug Resistance Mechanisms in Cancer Cells. Molecules, 2014, 19, 13976-13989.	3.8	61
58	Metalâ€Based Compounds as Prospective Antileishmanial Agents: Inhibition of Trypanothione Reductase by Selected Gold Complexes. ChemMedChem, 2013, 8, 1634-1637.	3.2	32
59	Metals and Metal Derivatives in Medicine. Mini-Reviews in Medicinal Chemistry, 2013, 13, 211-221.	2.4	4
60	Structural insights into the enzymes of the trypanothione pathway: targets for antileishmaniasis drugs. Future Medicinal Chemistry, 2013, 5, 1861-1875.	2.3	52
61	Green tea catechins can bind and modify ERp57/PDIA3 activity. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 2671-2682.	2.4	32
62	Inhibition of Leishmania infantum Trypanothione Reductase by Azoleâ€Based Compounds: a Comparative Analysis with Its Physiological Substrate by Xâ€ray Crystallography. ChemMedChem, 2013, 8, 1175-1183.	3.2	63
63	Metals and Metal Derivatives in Medicine. Mini-Reviews in Medicinal Chemistry, 2013, 13, 211-221.	2.4	12
64	Metals and metal derivatives in medicine. Mini-Reviews in Medicinal Chemistry, 2013, 13, 211-21.	2.4	15
65	The Crystal Structures of the Tryparedoxin-Tryparedoxin Peroxidase Couple Unveil the Structural Determinants of Leishmania Detoxification Pathway. PLoS Neglected Tropical Diseases, 2012, 6, e1781.	3.0	61
66	A gold-containing drug against parasitic polyamine metabolism: the X-ray structure of trypanothione reductase from Leishmania infantum in complex with auranofin reveals a dual mechanism of enzyme inhibition. Amino Acids, 2012, 42, 803-811.	2.7	148
67	Metals and Metal derivatives in Medicine. Mini-Reviews in Medicinal Chemistry, 2012, , .	2.4	0
68	Inhibitory Effect of Silver Nanoparticles on Trypanothione Reductase Activity and Leishmania infantum Proliferation. ACS Medicinal Chemistry Letters, 2011, 2, 230-233.	2.8	96
69	Polyamine metabolism in Leishmania: from arginine to trypanothione. Amino Acids, 2011, 40, 269-285.	2.7	136
70	Activation of the cardiac Na+â€“Ca2+ exchanger by sorcin via the interaction of the respective Ca2+-binding domains. Journal of Molecular and Cellular Cardiology, 2010, 49, 132-141.	1.9	45
71	Trypanothione Reductase from Leishmania infantum: Cloning, Expression, Purification, Crystallization and Preliminary X-Ray Data Analysis. Protein and Peptide Letters, 2009, 16, 196-200.	0.9	36
72	Complex modulation of L-type Ca2+ current inactivation by sorcin in isolated rabbit cardiomyocytes. Pflugers Archiv European Journal of Physiology, 2009, 457, 1049-1060.	2.8	25

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73	Molecular Basis of Antimony Treatment in Leishmaniasis. Journal of Medicinal Chemistry, 2009, 52, 2603-2612.	6.4	244
74	The Xâ€ray structure ofNâ€methyltryptophan oxidase reveals the structural determinants of substrate specificity. Proteins: Structure, Function and Bioinformatics, 2008, 71, 2065-2075.	2.6	24
75	Molecular characterization of nitrite reductase gene (aniA) and gene product in Neisseria meningitidis isolates: Is aniA essential for meningococcal survival?. IUBMB Life, 2008, 60, 629-636.	3.4	25
76	Sorcin modulates cardiac Lâ€type Ca²⁺ current by functional interaction with the Î±_{1C} subunit in rabbits. Experimental Physiology, 2008, 93, 1233-1238.	2.0	20
77	Molecular basis for the impaired function of the natural F112L sorcin mutant: Xâ€ray crystal structure, calcium affinity, and interaction with annexin VII and the ryanodine receptor. FASEB Journal, 2008, 22, 295-306.	0.5	40
78	Cooperativity and Ligand-linked Polymerisation in Scapharca Tetrameric Haemoglobin. , 2008, , 107-119.		0
79	The yeast penta-EF protein Pef1p is involved in cation-dependent budding and cell polarization. Molecular Microbiology, 2007, 65, 1122-1138.	2.5	8
80	The desaturase from Bacillus subtilis, a promising tool for the selective olefination of phospholipids. Journal of Biotechnology, 2006, 121, 49-53.	3.8	7
81	The W105G and W99G Sorcin Mutants Demonstrate the Role of the D Helix in the Ca2+-Dependent Interaction with Annexin VII and the Cardiac Ryanodine Receptor. Biochemistry, 2006, 45, 12519-12529.	2.5	33
82	L-type calcium current is modulated by sorcin in rabbit ventricular myocytes. Journal of Molecular and Cellular Cardiology, 2006, 40, 926-927.	1.9	0
83	Inventory of the Proteins inNeisseriameningitidisSerogroup B Strain MC58. Journal of Proteome Research, 2005, 4, 1361-1370.	3.7	25
84	Information Transfer in the Penta-EF-hand Protein Sorcin Does Not Operate via the Canonical Structural/Functional Pairing. Journal of Biological Chemistry, 2003, 278, 24921-24928.	3.4	34
85	The crystal structure of the sorcin calcium binding domain provides a model of Ca2+-dependent processes in the full-length protein. Journal of Molecular Biology, 2002, 317, 447-458.	4.2	64
86	Two different crystal forms of sorcin, a penta-EF-hand Ca2+-binding protein. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 862-864.	2.5	1
87	Structureâ^'Function Relationships in Sorcin, a Member of the Penta EF-Hand Family. Interaction of Sorcin Fragments with the Ryanodine Receptor and an Escherichia coli Model System. Biochemistry, 2000, 39, 658-666.	2.5	39
88	Ligand-Linked Changes at the Subunit Interfaces in Scapharca Hemoglobins Probed through the Sulfhydryl Infrared Absorptionâ€. Biochemistry, 1999, 38, 10079-10083.	2.5	6
89	The Apolar Distal Histidine Mutant (His69â†'Val) of the Homodimeric Scapharca Hemoglobin Is in an R-like Conformation. Biochemistry, 1998, 37, 5608-5615.	2.5	12
90	Mutation of Residue Phe97 to Leu Disrupts the Central Allosteric Pathway in Scapharca Dimeric Hemoglobin. Journal of Biological Chemistry, 1997, 272, 13171-13179.	3.4	36

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91	Cooperative Oxygen Binding to Scapharca inaequivalvis Hemoglobin in the Crystal. Journal of Biological Chemistry, 1996, 271, 3627-3632.	3.4	37
92	Bacterial Expression Of Scapharca Dimeric Hemoglobin: A Simple Model System For Investigating Protein Cooperativity. Protein Engineering, Design and Selection, 1995, 8, 593-599.	2.1	19
93	Identification of the Site of Ferrocyanide Binding Involved in the Intramolecular Electron Transfer Process to Oxidized Heme in Scapharca Dimeric Hemoglobin. Archives of Biochemistry and Biophysics, 1994, 311, 103-106.	3.0	4
94	Halothane Does Not Alter Ca2+Affinity of Troponin C. Anesthesiology, 1992, 76, 100-105.	2.5	15
95	The homodimeric hemoglobin fromScapharcacan be locked into new cooperative structures upon reaction of Cys92, located at the subunit interface, with organomercurials. FEBS Letters, 1992, 314, 481-485.	2.8	1
96	Metal regulation of siderophore synthesis in Pseudomonas aeruginosa and functional effects of siderophore-metal complexes. Applied and Environmental Microbiology, 1992, 58, 2886-2893.	3.1	156
97	Innovative Approach for a Classic Target: Fragment Screening on Trypanothione Reductase Reveals New Opportunities for Drug Design. Frontiers in Molecular Biosciences, 0, 9, .	3.5	4