

Rodolfo Ippoliti

List of Publications by Year in descending order

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90
papers

2,188
citations

236925

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92
docs citations

92
times ranked

3312
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuronal Cells Rearrangement During Aging and Neurodegenerative Disease: Metabolism, Oxidative Stress and Organelles Dynamic. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 132.	2.9	148
2	Glioblastoma Stem Cells Microenvironment: The Paracrine Roles of the Niche in Drug and Radioresistance. <i>Stem Cells International</i> , 2016, 2016, 1-17.	2.5	131
3	Physiological roles of ovotransferrin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 218-225.	2.4	99
4	Antibody-Drug Conjugates: The New Frontier of Chemotherapy. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5510.	4.1	83
5	Reductive activation of ricin and ricin A-chain immunotoxins by protein disulfide isomerase and thioredoxin reductase. <i>Biochemical Pharmacology</i> , 2004, 67, 1721-1731.	4.4	81
6	Saporin and ricin A chain follow different intracellular routes to enter the cytosol of intoxicated cells. <i>FEBS Journal</i> , 2005, 272, 4983-4995.	4.7	80
7	Modulation of mitochondrial respiration by nitric oxide: investigation by single cell fluorescence microscopy. <i>FASEB Journal</i> , 1999, 13, 191-197.	0.5	71
8	The crystal structure of saporin SO6 from <i>Saponaria officinalis</i> and its interaction with the ribosome. <i>FEBS Letters</i> , 2000, 470, 239-243.	2.8	70
9	The amino acid sequence and oxygen-binding properties of the single hemoglobin of the cold-adapted Antarctic teleost <i>Gymnodraco acuticeps</i> . <i>Archives of Biochemistry and Biophysics</i> , 1992, 292, 295-302.	3.0	59
10	Switching between the Alternative Structures and Functions of a 2-Cys Peroxiredoxin, by Site-Directed Mutagenesis. <i>Journal of Molecular Biology</i> , 2013, 425, 4556-4568.	4.2	50
11	Nucleolin antagonist triggers autophagic cell death in human glioblastoma primary cells and decreased <i>in vivo</i> tumor growth in orthotopic brain tumor model. <i>Oncotarget</i> , 2015, 6, 42091-42104.	1.8	44
12	Strategies to Improve the Clinical Utility of Saporin-Based Targeted Toxins. <i>Toxins</i> , 2018, 10, 82.	3.4	44
13	Involvement of peroxisome proliferator-activated receptor γ (PPAR γ) in BDNF signaling during aging and in Alzheimer disease: Possible role of 4-hydroxynonenal (4-HNE). <i>Cell Cycle</i> , 2014, 13, 1335-1344.	2.6	41
14	Probiotic DSF counteracts chemotherapy induced neuropathic pain. <i>Oncotarget</i> , 2018, 9, 27998-28008.	1.8	40
15	Uric Acid Amplifies $A\beta$ Amyloid Effects Involved in the Cognitive Dysfunction/Dementia: Evidences From an Experimental Model In Vitro. <i>Journal of Cellular Physiology</i> , 2017, 232, 1069-1078.	4.1	38
16	<i>Pichia pastoris</i> as a host for secretion of toxic saporin chimeras. <i>FASEB Journal</i> , 2010, 24, 253-265.	0.5	37
17	Roles of PPAR transcription factors in the energetic metabolic switch occurring during adult neurogenesis. <i>Cell Cycle</i> , 2017, 16, 59-72.	2.6	37
18	A chimeric saporin-transferrin conjugate compared to ricin toxin: role of the carrier in intracellular transport and toxicity. <i>FASEB Journal</i> , 1995, 9, 1220-1225.	0.5	36

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19	Theranostic Nanomedicine for Malignant Gliomas. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 325.	4.1	33
20	PPAR δ and Cognitive Performance. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5068.	4.1	31
21	Metal-induced self-assembly of peroxiredoxin as a tool for sorting ultrasmall gold nanoparticles into one-dimensional clusters. <i>Nanoscale</i> , 2014, 6, 8052.	5.6	30
22	Secreted Gal-3BP is a novel promising target for non-internalizing Antibody-Drug Conjugates. <i>Journal of Controlled Release</i> , 2019, 294, 176-184.	9.9	30
23	Olive leaf extract impairs mitochondria by pro-oxidant activity in MDA-MB-231 and OVCAR-3 cancer cells. <i>Biomedicine and Pharmacotherapy</i> , 2021, 134, 111139.	5.6	30
24	Endocytosis of a chimera between human pro-urokinase and the plant toxin saporin: an unusual internalization mechanism. <i>FASEB Journal</i> , 2000, 14, 1335-1344.	0.5	28
25	A ribosomal protein is specifically recognized by saporin, a plant toxin which inhibits protein synthesis. <i>FEBS Letters</i> , 1992, 298, 145-148.	2.8	27
26	Neuroprotective effects of Prxl overexpression in an in vitro human Alzheimer's disease model. <i>Journal of Cellular Biochemistry</i> , 2013, 114, 708-715.	2.6	27
27	The Involvement of PPARs in the Peculiar Energetic Metabolism of Tumor Cells. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1907.	4.1	27
28	PPAR δ Antagonist AA452 Triggers Metabolic Reprogramming and Increases Sensitivity to Radiation Therapy in Human Glioblastoma Primary Cells. <i>Journal of Cellular Physiology</i> , 2017, 232, 1458-1466.	4.1	26
29	Molecular characterization of nitrite reductase gene (<i>aniA</i>) and gene product in <i>Neisseria meningitidis</i> isolates: Is <i>aniA</i> essential for meningococcal survival?. <i>IUBMB Life</i> , 2008, 60, 629-636.	3.4	25
30	Fragment-Based Discovery of a Regulatory Site in Thioredoxin Glutathione Reductase Acting as a "Doorstop" for NADPH Entry. <i>ACS Chemical Biology</i> , 2018, 13, 2190-2202.	3.4	25
31	Supramolecular self-assembly of graphene oxide and metal nanoparticles into stacked multilayers by means of a multitasking protein ring. <i>Nanoscale</i> , 2016, 8, 6739-6753.	5.6	24
32	Local anesthetics counteract cell proliferation and migration of human triple-negative breast cancer and melanoma cells. <i>Journal of Cellular Physiology</i> , 2020, 235, 3474-3484.	4.1	24
33	Proteolytic activity of bovine lactoferrin. <i>BioMetals</i> , 2004, 17, 249-255.	4.1	23
34	Systematic comparison of single-chain Fv antibody-fusion toxin constructs containing <i>Pseudomonas</i> Exotoxin A or saporin produced in different microbial expression systems. <i>Microbial Cell Factories</i> , 2015, 14, 19.	4.0	23
35	Distinct cellular responses induced by saporin and a transferrin-saporin conjugate in two different human glioblastoma cell lines. <i>Journal of Cellular Physiology</i> , 2012, 227, 939-951.	4.1	22
36	Flavopiridol: An Old Drug With New Perspectives? Implication for Development of New Drugs. <i>Journal of Cellular Physiology</i> , 2017, 232, 312-322.	4.1	22

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37	EV20-Sap, a novel anti-HER-3 antibody-drug conjugate, displays promising antitumor activity in melanoma. <i>Oncotarget</i> , 2017, 8, 95412-95424.	1.8	22
38	Human erythrocytes cross-linked with glutaraldehyde general properties and significance as a blood substitute. <i>Biochemical and Biophysical Research Communications</i> , 1988, 156, 970-977.	2.1	21
39	Multiple strategies for O ₂ transport: from simplicity to complexity. <i>IUBMB Life</i> , 2007, 59, 600-616.	3.4	21
40	Optimization of construct design and fermentation strategy for the production of bioactive ATF-SAP, a saporin based anti-tumoral uPAR-targeted chimera. <i>Microbial Cell Factories</i> , 2016, 15, 194.	4.0	21
41	Energy metabolism in glioblastoma stem cells: PPAR α a metabolic adaptor to intratumoral microenvironment. <i>Oncotarget</i> , 2017, 8, 108430-108450.	1.8	21
42	One ring (or two) to hold them all – on the structure and function of protein nanotubes. <i>FEBS Journal</i> , 2015, 282, 2827-2845.	4.7	19
43	Targeted therapy of human glioblastoma via delivery of a toxin through a peptide directed to cell surface nucleolin. <i>Journal of Cellular Physiology</i> , 2018, 233, 4091-4105.	4.1	19
44	PPAR α -Selective Antagonist GW6471 Inhibits Cell Growth in Breast Cancer Stem Cells Inducing Energy Imbalance and Metabolic Stress. <i>Biomedicines</i> , 2021, 9, 127.	3.2	19
45	PPAR α and β in a Rat Model of Parkinson's Disease: Possible Involvement in PD Symptoms. <i>Journal of Cellular Biochemistry</i> , 2015, 116, 844-855.	2.6	18
46	Bioassisted Tailored Synthesis of Plasmonic Silver Nanorings and Site-selective Deposition on Graphene Arrays. <i>Advanced Optical Materials</i> , 2020, 8, 1901583.	7.3	18
47	PPARs in Neurodegenerative and Neuroinflammatory Pathways. <i>Current Alzheimer Research</i> , 2018, 15, 336-344.	1.4	17
48	Targeting Vesicular LGALS3BP by an Antibody-Drug Conjugate as Novel Therapeutic Strategy for Neuroblastoma. <i>Cancers</i> , 2020, 12, 2989.	3.7	16
49	P-glycoprotein inserted in planar lipid bilayers formed by liposomes opened on amorphous carbon and Langmuir-Blodgett monolayer. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2002, 1559, 21-31.	2.6	15
50	The effect of AZT and chloroquine on the activities of ricin and a saporin-transferrin chimeric toxin. <i>Biochemical Pharmacology</i> , 2005, 70, 560-569.	4.4	13
51	Engineering a switchable toxin: the potential use of PDZ domains in the expression, targeting and activation of modified saporin variants. <i>Protein Engineering, Design and Selection</i> , 2010, 23, 61-68.	2.1	13
52	Biocompatibility of composites based on chitosan, apatite, and graphene oxide for tissue applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 1585-1594.	4.0	13
53	On the oxygen-linked anion-binding sites in human hemoglobin. Functional properties of human hemoglobin reacted with 4-isothiocyanatobenzenesulphonic acid and its hybrids. <i>FEBS Journal</i> , 1986, 161, 329-333.	0.2	12
54	On the problem of immunological detection of antigens in skeletal remains. <i>American Journal of Physical Anthropology</i> , 1991, 86, 429-432.	2.1	12

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55	Binding and internalization of ricin labelled with fluorescein isothiocyanate. <i>Biochemical and Biophysical Research Communications</i> , 1990, 169, 602-609.	2.1	11
56	The role of the glycan moiety on the structure–function relationships of PD-L1, type 1 ribosome-inactivating protein from <i>P. dioica</i> leaves. <i>Molecular BioSystems</i> , 2010, 6, 570.	2.9	11
57	Innovative Therapies against Human Glioblastoma Multiforme. <i>ISRN Oncology</i> , 2011, 2011, 1-12.	2.1	11
58	Hypoxia modulation of peroxisome proliferator-activated receptors (PPARs) in human glioblastoma stem cells. Implications for therapy. <i>Journal of Cellular Biochemistry</i> , 2012, 113, 3342-3352.	2.6	11
59	Lifestyle and Food Habits Impact on Chronic Diseases: Roles of PPARs. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5422.	4.1	11
60	Intracellular dynamics of ricin followed by fluorescence microscopy on living cells reveals a rapid accumulation of the dimeric toxin in the Golgi apparatus. <i>FEBS Letters</i> , 1994, 344, 99-104.	2.8	10
61	Targeting of saporin to Hodgkin's lymphoma cells by anti-CD30 and anti-CD25 bispecific antibodies. <i>British Journal of Haematology</i> , 1998, 102, 1061-1068.	2.5	10
62	N6L pseudopeptide interferes with nucleophosmin protein-protein interactions and sensitizes leukemic cells to chemotherapy. <i>Cancer Letters</i> , 2018, 412, 272-282.	7.2	10
63	Ectopic suicide inhibition of thioredoxin glutathione reductase. <i>Free Radical Biology and Medicine</i> , 2020, 147, 200-211.	2.9	10
64	Covalent complex of microperoxidase with a 21-residue synthetic peptide as a maquette for low-molecular-mass redox proteins. <i>Biochemical Journal</i> , 1997, 328, 833-840.	3.7	9
65	Aptamer-Driven Toxin Gene Delivery in U87 Model Glioblastoma Cells. <i>Frontiers in Pharmacology</i> , 2021, 12, 588306.	3.5	9
66	Probing the Surface of a Parasite Drug Target Thioredoxin Glutathione Reductase Using Small Molecule Fragments. <i>ACS Infectious Diseases</i> , 2021, 7, 1932-1944.	3.8	9
67	Crystallization and preliminary X-ray study of saporin, a ribosome-inactivating protein from <i>Saponaria officinalis</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1998, 54, 636-638.	2.5	8
68	Taking Advantage of the Morpheein Behavior of Peroxiredoxin in Bionanotechnology. <i>Bioconjugate Chemistry</i> , 2021, 32, 43-62.	3.6	8
69	Cooperative ligand binding of crosslinked hemoglobins at very high temperatures. <i>Journal of Molecular Biology</i> , 1990, 213, 571-574.	4.2	7
70	PDZ Domain in the Engineering and Production of a Saporin Chimeric Toxin as a Tool for targeting Cancer Cells. <i>Journal of Cellular Biochemistry</i> , 2015, 116, 1256-1266.	2.6	7
71	The PPAR γ Agonist GW0742 Induces Early Neuronal Maturation of Cortical Post-Mitotic Neurons: Role of PPAR γ in Neuronal Maturation. <i>Journal of Cellular Physiology</i> , 2016, 231, 597-606.	4.1	7
72	A saporin–insulin conjugate: Synthesis and biochemical characterization. <i>Natural Toxins</i> , 1996, 4, 156-162.	1.0	6

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73	A ring-shaped protein clusters gold nanoparticles acting as molecular scaffold for plasmonic surfaces. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129617.	2.4	6
74	Biochemical and structural characterizations of thioredoxin reductase selenoproteins of the parasitic filarial nematodes <i>Brugia malayi</i> and <i>Onchocerca volvulus</i> . <i>Redox Biology</i> , 2022, 51, 102278.	9.0	6
75	Role of immune sera in the in-vitro phagocytosis of <i>Bordetella pertussis</i> strains. <i>Microbial Pathogenesis</i> , 2002, 32, 135-141.	2.9	5
76	Current Status and Biomedical Applications of Ribosome-Inactivating Proteins. , 2013, , 145-179.		5
77	Immunogold localisation of P-glycoprotein in supported lipid bilayers by transmission electron microscopy and atomic force microscopy. <i>The Histochemical Journal</i> , 2001, 33, 305-309.	0.6	4
78	A peroxiredoxin-based proteinaceous scaffold for the growth and differentiation of neuronal cells and tumour stem cells in the absence of prodifferentiation agents. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 2462-2470.	2.7	4
79	Ricin and Saporin: Plant Enzymes for the Research and the Clinics. <i>Current Chemical Biology</i> , 2010, 4, 99-107.	0.5	3
80	Biochemical and rheodynamic properties of red blood cells crosslinked with glutaraldehyde. <i>Biotechnology and Applied Biochemistry</i> , 1992, 16, 195-200.	3.1	3
81	EV20â€ssâ€vc/MMAF, an HERâ€3 targeting antibodyâ€drug conjugate displays antitumor activity in liver cancer. <i>Oncology Reports</i> , 2020, 45, 776-785.	2.6	3
82	Effect of aromatic isothiocyanates on the functional properties of human hemoglobin. <i>Biophysical Chemistry</i> , 1990, 37, 293-302.	2.8	2
83	Ligand binding and slow structural changes in chlorocruorin from <i>Spirographis spallanzanii</i> . <i>Biochemistry</i> , 1993, 32, 7635-7643.	2.5	2
84	GlutathioneS-transferase tissue profiling by reporter peptide monitoring. <i>Proteomics</i> , 2005, 5, 648-653.	2.2	1
85	Ricin and Saporin: Plant Enzymes for the Research and the Clinics. <i>Current Chemical Biology</i> , 2010, 4, 99-107.	0.5	1
86	Structure and function of the plant toxin ricin, an N-glycosidase enzyme. <i>Italian Journal of Biochemistry</i> , 2004, 53, 92-7.	0.3	1
87	Proteolytic activity of bovine lactoferrin. <i>BioMetals</i> , 2004, 17, 745-745.	4.1	0
88	Towards a Stem Architecture Description Language for Self-Adaptive Systems. , 2010, , .		0
89	Dissecting the Entry Route of Saporin-based a-CD7 Immunotoxins in Human T-Cell Acute Lymphoblastic Leukaemia Cells. <i>Antibodies</i> , 2013, 2, 50-65.	2.5	0
90	Learning from the Cell Life-Cycle: A Self-adaptive Paradigm. <i>Lecture Notes in Computer Science</i> , 2010, , 485-488.	1.3	0