

Rosa Maria Vitale

List of Publications by Year in descending order

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1,790
citations

257101

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all docs

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docs citations

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2757
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#	ARTICLE	IF	CITATIONS
1	Carbonic Anhydrase Inhibitors: X-ray and Molecular Modeling Study for the Interaction of a Fluorescent Antitumor Sulfonamide with Isozyme II and IX. <i>Journal of the American Chemical Society</i> , 2006, 128, 8329-8335.	6.6	200
2	Carbonic Anhydrase Inhibitors: Hypoxia-Activatable Sulfonamides Incorporating Disulfide Bonds that Target the Tumor-Associated Isoform IX. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 5544-5551.	2.9	100
3	Structure, conformation and biological activity of a novel lipodepsipeptide from <i>Pseudomonas corrugata</i> : cormycin A1. <i>Biochemical Journal</i> , 2004, 384, 25-36.	1.7	86
4	Preclinical Development of a Novel Class of CXCR4 Antagonist Impairing Solid Tumors Growth and Metastases. <i>PLoS ONE</i> , 2013, 8, e74548.	1.1	76
5	Rare Casbane Diterpenoids from the Hainan Soft Coral <i>Sinularia depressa</i> . <i>Journal of Natural Products</i> , 2010, 73, 133-138.	1.5	70
6	Insights into the Structural Basis of the GADD45 ² -mediated Inactivation of the JNK Kinase, MKK7/JNKK2. <i>Journal of Biological Chemistry</i> , 2007, 282, 19029-19041.	1.6	66
7	Structure-activity relationships and molecular modelling of new 5-arylidene-4-thiazolidinone derivatives as aldose reductase inhibitors and potential anti-inflammatory agents. <i>European Journal of Medicinal Chemistry</i> , 2014, 81, 1-14.	2.6	63
8	Identification and characterization of phytocannabinoids as novel dual PPAR ¹ / ³ agonists by a computational and in vitro experimental approach. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 586-597.	1.1	55
9	The Endocannabinoid System and PPARs: Focus on Their Signalling Crosstalk, Action and Transcriptional Regulation. <i>Cells</i> , 2021, 10, 586.	1.8	55
10	Minimalist Hybrid Ligand/Receptor-Based Pharmacophore Model for CXCR4 Applied to a Small-Library of Marine Natural Products Led to the Identification of Phidianidine A as a New CXCR4 Ligand Exhibiting Antagonist Activity. <i>ACS Chemical Biology</i> , 2013, 8, 2762-2770.	1.6	54
11	Gadd45 ² forms a Homodimeric Complex that Binds Tightly to MKK7. <i>Journal of Molecular Biology</i> , 2008, 378, 97-111.	2.0	49
12	Carbonic Anhydrase Inhibitors: Bioreductive Nitro-Containing Sulfonamides with Selectivity for Targeting the Tumor Associated Isoforms IX and XII. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 3230-3237.	2.9	49
13	Nitroxyl Peptides as Catalysts of Enantioselective Oxidations. <i>Chemistry - A European Journal</i> , 2002, 8, 84-93.	1.7	48
14	Probing the Dimeric Structure of Porcine Aminoacylase 1 by Mass Spectrometric and Modeling Procedures. <i>Biochemistry</i> , 2003, 42, 4430-4443.	1.2	47
15	Avarol derivatives as competitive AChE inhibitors, non hepatotoxic and neuroprotective agents for Alzheimer's disease. <i>European Journal of Medicinal Chemistry</i> , 2016, 122, 326-338.	2.6	43
16	Beneficial Effects of <i>Akkermansia muciniphila</i> Are Not Associated with Major Changes in the Circulating Endocannabinoidome but Linked to Higher Mono-Palmitoyl-Glycerol Levels as New PPAR ¹ / ³ Agonists. <i>Cells</i> , 2021, 10, 185.	1.8	43
17	Molecular modeling study for the binding of zonisamide and topiramate to the human mitochondrial carbonic anhydrase isoform VA. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 4152-4158.	1.4	37
18	N-Oleoyl-glycine reduces nicotine reward and withdrawal in mice. <i>Neuropharmacology</i> , 2019, 148, 320-331.	2.0	37

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19	The (Poly)Pharmacology of Cannabidiol in Neurological and Neuropsychiatric Disorders: Molecular Mechanisms and Targets. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4876.	1.8	37
20	Structure and Absolute Stereochemistry of Syphonoside, a Unique Macrocyclic Glycoterpenoid from Marine Organisms. <i>Journal of Organic Chemistry</i> , 2007, 72, 5625-5630.	1.7	31
21	Structural Analysis of BldR from <i>Sulfolobus solfataricus</i> Provides Insights into the Molecular Basis of Transcriptional Activation in Archaea by MarR Family Proteins. <i>Journal of Molecular Biology</i> , 2009, 388, 559-569.	2.0	31
22	Structural Features of Distinctin Affecting Peptide Biological and Biochemical Properties. <i>Biochemistry</i> , 2008, 47, 7888-7899.	1.2	29
23	Converting the Highly Amyloidogenic Human Calcitonin into a Powerful Fibril Inhibitor by Three-dimensional Structure Homology with a Non-amyloidogenic Analogue. <i>Journal of Biological Chemistry</i> , 2011, 286, 2707-2718.	1.6	29
24	Tetrahydroisoquinoline-Derived Urea and 2,5-Diketopiperazine Derivatives as Selective Antagonists of the Transient Receptor Potential Melastatin 8 (TRPM8) Channel Receptor and Antiprostata Cancer Agents. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 5661-5683.	2.9	29
25	Fishing for Targets of Alien Metabolites: A Novel Peroxisome Proliferator-Activated Receptor (PPAR) Agonist from a Marine Pest. <i>Marine Drugs</i> , 2018, 16, 431.	2.2	27
26	Air oxidation method employed for the disulfide bond formation of natural and synthetic peptides. <i>Amino Acids</i> , 2015, 47, 1507-1515.	1.2	24
27	Structural features of the inactive and active states of the melanin-concentrating hormone receptors: Insights from molecular simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 56, 430-448.	1.5	22
28	Molecular modeling and functional characterization of the monomeric primase-polymerase domain from the <i>Sulfolobus solfataricus</i> plasmid pIT3. <i>FEBS Journal</i> , 2008, 275, 4389-4402.	2.2	21
29	Carbonic Anhydrase Inhibitors. Comparison of Aliphatic Sulfamate/Bis-sulfamate Adducts with Isozymes II and IX as a Platform for Designing Tight-Binding, More Isoform-Selective Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 5990-5998.	2.9	21
30	Structure-activity relationships of fraxamoside as an unusual xanthine oxidase inhibitor. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017, 32, 345-354.	2.5	21
31	A SPR strategy for high-throughput ligand screenings based on synthetic peptides mimicking a selected subdomain of the target protein: A proof of concept on HER2 receptor. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 7015-7020.	1.4	20
32	Identification and Characterization of Cannabimovone, a Cannabinoid from <i>Cannabis sativa</i> , as a Novel PPAR γ Agonist via a Combined Computational and Functional Study. <i>Molecules</i> , 2020, 25, 1119.	1.7	20
33	Cannabitolin, a Dimeric Phytocannabinoid from Hemp, <i>Cannabis sativa</i> L., Is a Selective Thermo-TRP Modulator. <i>Journal of Natural Products</i> , 2020, 83, 2727-2736.	1.5	19
34	N-palmitoyl-D-glucosamine, A Natural Monosaccharide-Based Glycolipid, Inhibits TLR4 and Prevents LPS-Induced Inflammation and Neuropathic Pain in Mice. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1491.	1.8	19
35	Ac10 c: a medium-ring, cycloaliphatic α,β -disubstituted glycine. Incorporation into model peptides and preferred conformation. <i>Chemical Biology and Drug Design</i> , 2001, 57, 307-315.	1.2	16
36	X-ray Diffraction Analysis and Conformational Energy Computations of β -Turn and 310-Helical Peptides Based on α -Amino Acids with an Olefinic Side Chain. Implications for Ring-Closing Metathesis. <i>Macromolecules</i> , 2002, 35, 4204-4209.	2.2	16

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37	Interactions of GFAP with ceftriaxone and phenytoin: SRCD and molecular docking and dynamic simulation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 2239-2248.	1.1	15
38	Neuroglobin-prion protein interaction: what's the function?. <i>Journal of Peptide Science</i> , 2011, 17, 387-391.	0.8	14
39	<i>In Silico</i> Identification and Experimental Validation of Novel Anti-Alzheimer's Multitargeted Ligands from a Marine Source Featuring a α -2-Aminoimidazole plus Aromatic Group-Scaffold. <i>ACS Chemical Neuroscience</i> , 2018, 9, 1290-1303.	1.7	14
40	Patatin-like lipolytic acyl hydrolases and galactolipid metabolism in marine diatoms of the genus <i>Pseudo-nitzschia</i> . <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 181-190.	1.2	13
41	2-Pentadecyl-2-oxazoline ameliorates memory impairment and depression-like behaviour in neuropathic mice: possible role of adrenergic α 2- and H3 histamine autoreceptors. <i>Molecular Brain</i> , 2021, 14, 28.	1.3	13
42	Elongation of the Hydrophobic Chain as a Molecular Switch: Discovery of Capsaicin Derivatives and Endogenous Lipids as Potent Transient Receptor Potential Vanilloid Channel 2 Antagonists. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 8255-8281.	2.9	11
43	<i>In Silico</i> Identification and Experimental Validation of (α)-Muqubilin A, a Marine Norterpene Peroxide, as PPAR α / β -RXR α Agonist and RAR α Positive Allosteric Modulator. <i>Marine Drugs</i> , 2019, 17, 110.	2.2	11
44	Design, Synthesis and <i>In Vitro</i> Experimental Validation of Novel TRPV4 Antagonists Inspired by Labdane Diterpenes. <i>Marine Drugs</i> , 2020, 18, 519.	2.2	11
45	Biosynthesis of the Novel Endogenous 15-Lipoxygenase Metabolites N-13-Hydroxy-octadecadienoyl-ethanolamine and 13-Hydroxy-octadecadienoyl-glycerol by Human Neutrophils and Eosinophils. <i>Cells</i> , 2021, 10, 2322.	1.8	11
46	Potent Cytotoxic Analogs of Amphidinolides from the Atlantic Octocoral <i>Stragulum bicolor</i> . <i>Marine Drugs</i> , 2019, 17, 58.	2.2	10
47	Conformational Features of Human Melanin-Concentrating Hormone: An NMR and Computational Analysis. <i>ChemBioChem</i> , 2003, 4, 73-81.	1.3	8
48	Structural characterization of the functional regions in the archaeal protein Sso7d. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007, 67, 189-197.	1.5	8
49	Identification and Characterization of Cannabidiol as an OX1R Antagonist by Computational and <i>In Vitro</i> Functional Validation. <i>Biomolecules</i> , 2021, 11, 1134.	1.8	8
50	α -Methyl, α -allylglycine (Mag) Homooligomers. <i>Macromolecules</i> , 2001, 34, 4263-4269.	2.2	6
51	Chaperone-like effect of ceftriaxone on HEWL aggregation: A spectroscopic and computational study. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 1317-1326.	1.1	6
52	Identification of the hydantoin alkaloids parazoanthines as novel CXCR4 antagonists by computational and <i>in vitro</i> functional characterization. <i>Bioorganic Chemistry</i> , 2020, 105, 104337.	2.0	4
53	The Combined Effect of Branching and Elongation on the Bioactivity Profile of Phytocannabinoids. Part I: Thermo-TRPs. <i>Biomedicines</i> , 2021, 9, 1070.	1.4	3
54	Spectroscopy data of ceftriaxone-lysozyme interaction and computational studies. <i>Data in Brief</i> , 2018, 18, 1808-1818.	0.5	2

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55	FAAH-Catalyzed C=C Bond Cleavage of a New Multitarget Analgesic Drug. ACS Chemical Neuroscience, 2019, 10, 424-437.	1.7	2
56	Discovery of a Remarkable Methyl Shift Effect in the Vanilloid Activity of Triterpene Amides. Journal of Natural Products, 2020, 83, 3476-3481.	1.5	2
57	Chapter 6. Natural Compounds and Synthetic Drugs Targeting the Ionotropic Cannabinoid Members of Transient Receptor Potential (TRP) Channels. RSC Drug Discovery Series, 2020, , 201-300.	0.2	2
58	Synthetic peptides mimicking the interleukin-6/gp 130 interaction: a two-helix bundle system. Design and conformational studies. Journal of Peptide Science, 2003, 9, 90-105.	0.8	1
59	Site-directed mutagenesis and molecular modelling studies show the role of Asp82 and cysteines in rat acylase 1, a member of the M20 family. Biochemical and Biophysical Research Communications, 2005, 330, 540-546.	1.0	1
60	Gadd45 ^{Δ2} dimerization does not affect MKK7 binding. Advances in Experimental Medicine and Biology, 2009, 611, 367-368.	0.8	1
61	Allyl-Based, C ^α -Methylated α -Amino Acids in the Side-Chain to Side-Chain Ring-Closing Metathesis Reaction of β -Turn/ β -Helical Peptides. , 2001, , 371-372.		1
62	Computational Methods in Mass Spectrometry-Based Protein 3D Studies. , 2011, , .		0
63	332 A New CXCR4 Receptor Antagonist α Effects on Cell Growth and Tumor Microenvironment in a Glioma Model. European Journal of Cancer, 2012, 48, S81.	1.3	0
64	P01.16 * MICROGLIA/MACROPHAGES AS CELLULAR TARGET OF NOVEL CXCR4 ANTAGONIST IN A GLIOMA MODEL. Neuro-Oncology, 2014, 16, ii30-ii30.	0.6	0
65	TOAC Peptides as Catalysts of Enantioselective Oxidations. , 2001, , 1065-1066.		0
66	Synthesis and NMR Characterization of Melanin-Concentrating Hormone. , 2001, , 710-711.		0
67	Structural characterization of functionalized β -cyclodextrins. Acta Crystallographica Section A: Foundations and Advances, 2005, 61, c315-c315.	0.3	0
68	Self-association regions in the CARD of Bcl-10. Advances in Experimental Medicine and Biology, 2009, 611, 569-570.	0.8	0
69	Abstract 394: Rapid and persistent neutrophil mobilization by novel CXCR4 peptide antagonists. , 2011, , .		0
70	Abstract 4645: Preclinical development of RFF-1, a novel rational designed CXCL12 mimetic drug. , 2012, , .		0
71	Self-Inclusion Complexes of Monofunctionalized Beta-Cyclodextrins as Host-Guest Interaction Model Systems and Simple and Sensitive Testbeds for Implicit Solvation Methods. , 2015, , 271-296.		0