

Eugenio Notomista

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

2,093
citations

212478

28
h-index

299063

42
g-index

70
all docs

70
docs citations

70
times ranked

2780
citing authors

#	ARTICLE	IF	CITATIONS
1	A machine learning-enhanced biosensor for mercury detection based on an hydrophobin chimera. <i>Biosensors and Bioelectronics</i> , 2022, 196, 113696.	5.3	26
2	Mining for encrypted peptide antibiotics in the human proteome. <i>Nature Biomedical Engineering</i> , 2022, 6, 67-75.	11.6	64
3	Human Cryptic Host Defence Peptide GVF27 Exhibits Anti-Infective Properties against Biofilm Forming Members of the <i>Burkholderia cepacia</i> Complex. <i>Pharmaceuticals</i> , 2022, 15, 260.	1.7	3
4	Antimicrobial d-amino acid oxidase-derived peptides specify gut microbiota. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 3607-3620.	2.4	6
5	Host defence peptides identified in human apolipoprotein B as promising antifungal agents. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 1953-1964.	1.7	13
6	Impact of a Single Point Mutation on the Antimicrobial and Fibrillogenic Properties of Cryptides from Human Apolipoprotein B. <i>Pharmaceuticals</i> , 2021, 14, 631.	1.7	11
7	Environment-Sensitive Fluorescent Labelling of Peptides by Luciferin Analogues. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13312.	1.8	1
8	Similarities and differences for membranotropic action of three unnatural antimicrobial peptides. <i>Journal of Peptide Science</i> , 2020, 26, e3270.	0.8	10
9	Molecular Dissection of dH3w, A Fluorescent Peptidyl Sensor for Zinc and Mercury. <i>Sensors</i> , 2020, 20, 598.	2.1	2
10	Antimicrobial peptide Temporin-L complexed with anionic cyclodextrins results in a potent and safe agent against sessile bacteria. <i>International Journal of Pharmaceutics</i> , 2020, 584, 119437.	2.6	19
11	Enzymes as a Reservoir of Host Defence Peptides. <i>Current Topics in Medicinal Chemistry</i> , 2020, 20, 1310-1323.	1.0	5
12	Host Defence Cryptides from Human Apolipoproteins: Applications in Medicinal Chemistry. <i>Current Topics in Medicinal Chemistry</i> , 2020, 20, 1324-1337.	1.0	13
13	Encapsulating properties of sulfobutylether- β -cyclodextrin toward a thrombin-derived antimicrobial peptide. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 3249-3256.	2.0	10
14	Denatured lysozyme-coated carbon nanotubes: a versatile biohybrid material. <i>Scientific Reports</i> , 2019, 9, 16643.	1.6	3
15	Membrane disintegration by the antimicrobial peptide (P)GKY20: lipid segregation and domain formation. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 3989-3998.	1.3	26
16	Effects of human antimicrobial cryptides identified in apolipoprotein B depend on specific features of bacterial strains. <i>Scientific Reports</i> , 2019, 9, 6728.	1.6	28
17	Cost-effective production of recombinant peptides in <i>Escherichia coli</i> . <i>New Biotechnology</i> , 2019, 51, 39-48.	2.4	49
18	The marine Gram-negative bacterium <i>Novosphingobium</i> sp. PP1Y as a potential source of novel metabolites with antioxidant activity. <i>Biotechnology Letters</i> , 2019, 41, 273-281.	1.1	11

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19	Structural and functional insights into RHA-P, a bacterial GH106 α -L-rhamnosidase from <i>Novosphingobium</i> sp. PP1Y. <i>Archives of Biochemistry and Biophysics</i> , 2018, 648, 1-11.	1.4	13
20	Novel bioactive peptides from PD-L1/2, a type 1 ribosome inactivating protein from <i>Phytolacca dioica</i> L. Evaluation of their antimicrobial properties and anti-biofilm activities. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 1425-1435.	1.4	24
21	Chemical Cleavage of an Asp-Cys Sequence Allows Efficient Production of Recombinant Peptides with an N-Terminal Cysteine Residue. <i>Bioconjugate Chemistry</i> , 2018, 29, 1373-1383.	1.8	16
22	Cryptic Antimicrobial Peptides: Identification Methods and Current Knowledge of their Immunomodulatory Properties. <i>Current Pharmaceutical Design</i> , 2018, 24, 1054-1066.	0.9	26
23	Fluorescent peptide dH3w: A sensor for environmental monitoring of mercury (II). <i>PLoS ONE</i> , 2018, 13, e0204164.	1.1	11
24	Antifungal and anti-biofilm activity of the first cryptic antimicrobial peptide from an archaeal protein against <i>Candida</i> spp. clinical isolates. <i>Scientific Reports</i> , 2018, 8, 17570.	1.6	51
25	New clues into the self-assembly of Vmh2, a basidiomycota class I hydrophobin. <i>Biological Chemistry</i> , 2018, 399, 895-901.	1.2	9
26	Identification of Novel Cryptic Multifunctional Antimicrobial Peptides from the Human Stomach Enabled by a Computational-Experimental Platform. <i>ACS Synthetic Biology</i> , 2018, 7, 2105-2115.	1.9	63
27	Exploring the role of unnatural amino acids in antimicrobial peptides. <i>Scientific Reports</i> , 2018, 8, 8888.	1.6	76
28	Human apolipoprotein E as a reservoir of cryptic bioactive peptides: The case of ApoE 133 Δ 167. <i>Journal of Peptide Science</i> , 2018, 24, e3095.	0.8	28
29	Novel human bioactive peptides identified in Apolipoprotein B: Evaluation of their therapeutic potential. <i>Biochemical Pharmacology</i> , 2017, 130, 34-50.	2.0	64
30	Antimicrobial potency of cationic antimicrobial peptides can be predicted from their amino acid composition: Application to the detection of α -cryptic antimicrobial peptides. <i>Journal of Theoretical Biology</i> , 2017, 419, 254-265.	0.8	89
31	Production of biofunctionalized MoS ₂ flakes with rationally modified lysozyme: a biocompatible 2D hybrid material. <i>2D Materials</i> , 2017, 4, 035007.	2.0	19
32	Insights into the anticancer properties of the first antimicrobial peptide from Archaea. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 2155-2164.	1.1	29
33	Modified denatured lysozyme effectively solubilizes fullerene c60 nanoparticles in water. <i>Nanotechnology</i> , 2017, 28, 335601.	1.3	10
34	The nucleoid as a scaffold for the assembly of bacterial signaling complexes. <i>PLoS Genetics</i> , 2017, 13, e1007103.	1.5	8
35	Human cytomegalovirus pUL10 interacts with leukocytes and impairs TCR-mediated T cell activation. <i>Immunology and Cell Biology</i> , 2016, 94, 849-860.	1.0	12
36	RHA-P: Isolation, expression and characterization of a bacterial α -L-rhamnosidase from <i>Novosphingobium</i> sp. PP1Y. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 134, 136-147.	1.8	16

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37	A new peptide-based fluorescent probe selective for zinc(Zn^{2+}) and copper(Cu^{2+}). <i>Journal of Materials Chemistry B</i> , 2016, 4, 6979-6988.	2.9	33
38	A new cryptic cationic antimicrobial peptide from human apolipoprotein E with antibacterial activity and immunomodulatory effects on human cells. <i>FEBS Journal</i> , 2016, 283, 2115-2131.	2.2	54
39	Class I Hydrophobin Vmh2 Adopts Atypical Mechanisms to Self-Assemble into Functional Amyloid Fibrils. <i>Biomacromolecules</i> , 2016, 17, 954-964.	2.6	29
40	Rational Design of a Carrier Protein for the Production of Recombinant Toxic Peptides in <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2016, 11, e0146552.	1.1	39
41	The identification of a novel <i>Sulfolobus islandicus</i> CAMP-like peptide points to archaeal microorganisms as cell factories for the production of antimicrobial molecules. <i>Microbial Cell Factories</i> , 2015, 14, 126.	1.9	24
42	A new active antimicrobial peptide from PD β 4, a type 1 ribosome inactivating protein of <i>Phytolacca dioica</i> L.: A new function of RIPs for plant defence?. <i>FEBS Letters</i> , 2015, 589, 2812-2818.	1.3	22
43	The Toluene <i>o</i> -Xylene Monooxygenase Enzymatic Activity for the Biosynthesis of Aromatic Antioxidants. <i>PLoS ONE</i> , 2015, 10, e0124427.	1.1	12
44	The Direct Interaction between Two Morphogenetic Proteins Is Essential for Spore Coat Formation in <i>Bacillus subtilis</i> . <i>PLoS ONE</i> , 2015, 10, e0141040.	1.1	11
45	Complete sequencing of <i>Novosphingobium</i> sp. PP1Y reveals a biotechnologically meaningful metabolic pattern. <i>BMC Genomics</i> , 2014, 15, 384.	1.2	44
46	β -Rhamnosidase activity in the marine isolate <i>Novosphingobium</i> sp. PP1Y and its use in the bioconversion of flavonoids. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 105, 95-103.	1.8	13
47	Novel promising linezolid analogues: Rational design, synthesis and biological evaluation. <i>European Journal of Medicinal Chemistry</i> , 2013, 69, 779-785.	2.6	25
48	Marine hydrocarbonoclastic bacteria. , 2013, , 373-402.		8
49	The Marine Isolate <i>Novosphingobium</i> sp. PP1Y Shows Specific Adaptation to Use the Aromatic Fraction of Fuels as the Sole Carbon and Energy Source. <i>Microbial Ecology</i> , 2011, 61, 582-594.	1.4	57
50	Tuning the Specificity of the Recombinant Multicomponent Toluene <i>o</i> -Xylene Monooxygenase from <i>Pseudomonas</i> sp. Strain OX1 for the Biosynthesis of Tyrosol from 2-Phenylethanol. <i>Applied and Environmental Microbiology</i> , 2011, 77, 5428-5437.	1.4	26
51	A Semi-Rational Approach to Engineering Laccase Enzymes. <i>Molecular Biotechnology</i> , 2010, 46, 149-156.	1.3	25
52	Isolation of an <i>Escherichia coli</i> K4 kfoC mutant over-producing capsular chondroitin. <i>Microbial Cell Factories</i> , 2010, 9, 34.	1.9	36
53	Structural characterization of the transmembrane proximal region of the hepatitis C virus E1 glycoprotein. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 344-353.	1.4	30
54	Molecular Determinants of the Regioselectivity of Toluene/ <i>o</i> -Xylene Monooxygenase from <i>Pseudomonas</i> sp. Strain OX1. <i>Applied and Environmental Microbiology</i> , 2009, 75, 823-836.	1.4	33

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55	The role of residue Thr249 in modulating the catalytic efficiency and substrate specificity of catechol-2,3-dioxygenase from <i>Pseudomonas stutzeri</i> OX1. <i>FEBS Journal</i> , 2006, 273, 2963-2976.	2.2	7
56	The role of electrostatic interactions in the antitumor activity of dimeric RNases. <i>FEBS Journal</i> , 2006, 273, 3687-3697.	2.2	35
57	The Importance of Dynamic Effects on the Enzyme Activity. <i>Journal of Biological Chemistry</i> , 2005, 280, 17953-17960.	1.6	49
58	Mutation of Glutamic Acid 103 of Toluene <i>o</i> -Xylene Monooxygenase as a Means To Control the Catabolic Efficiency of a Recombinant Upper Pathway for Degradation of Methylated Aromatic Compounds. <i>Applied and Environmental Microbiology</i> , 2005, 71, 4744-4750.	1.4	19
59	Regiospecificity of Two Multicomponent Monooxygenases from <i>Pseudomonas stutzeri</i> OX1: Molecular Basis for Catabolic Adaptation of This Microorganism to Methylated Aromatic Compounds. <i>Applied and Environmental Microbiology</i> , 2005, 71, 4736-4743.	1.4	39
60	The thermophilic archaeon <i>Sulfolobus solfataricus</i> is able to grow on phenol. <i>Research in Microbiology</i> , 2005, 156, 677-689.	1.0	34
61	The Role of the Conserved Residues His-246, His-199, and Tyr-255 in the Catalysis of Catechol 2,3-Dioxygenase from <i>Pseudomonas stutzeri</i> OX1. <i>Journal of Biological Chemistry</i> , 2004, 279, 48630-48639.	1.6	51
62	Phenol Hydroxylase and Toluene/ <i>o</i> -Xylene Monooxygenase from <i>Pseudomonas stutzeri</i> OX1: Interplay between Two Enzymes. <i>Applied and Environmental Microbiology</i> , 2004, 70, 2211-2219.	1.4	113
63	Evolution of Bacterial and Archaeal Multicomponent Monooxygenases. <i>Journal of Molecular Evolution</i> , 2003, 56, 435-445.	0.8	118
64	Expression and purification of the recombinant subunits of toluene/ <i>o</i> -xylene monooxygenase and reconstitution of the active complex. <i>FEBS Journal</i> , 2002, 269, 5689-5699.	0.2	67
65	Contribution of Chain Termini to the Conformational Stability and Biological Activity of Onconase. <i>Biochemistry</i> , 2001, 40, 9097-9103.	1.2	41
66	Conformational analysis of putative regulatory subunit D of the toluene/ <i>o</i> -xylene-monooxygenase complex from <i>Pseudomonas stutzeri</i> OX1. <i>Protein Science</i> , 2001, 10, 482-490.	3.1	12
67	Thermal Stability of Onconase and Some Mutant Forms. <i>Biocatalysis and Biotransformation</i> , 2001, 19, 459-468.	1.1	0
68	Enthalpic and entropic consequences of the removal of disulfide bridges in ribonuclease A. <i>Thermochimica Acta</i> , 2000, 364, 165-172.	1.2	5
69	Onconase: An Unusually Stable Protein. <i>Biochemistry</i> , 2000, 39, 8711-8718.	1.2	68
70	Effective expression and purification of recombinant onconase, an antitumor protein. <i>FEBS Letters</i> , 1999, 463, 211-215.	1.3	50