

Eugenio Notomista

List of Publications by Year in descending order

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70
papers

2,093
citations

186265

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265206

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docs citations

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times ranked

2508
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Evolution of Bacterial and Archaeal Multicomponent Monooxygenases. <i>Journal of Molecular Evolution</i> , 2003, 56, 435-445. | 1.8 | 118 |
| 2 | Phenol Hydroxylase and Toluene/ o -Xylene Monooxygenase from <i>Pseudomonas stutzeri</i> OX1: Interplay between Two Enzymes. <i>Applied and Environmental Microbiology</i> , 2004, 70, 2211-2219. | 3.1 | 113 |
| 3 | Antimicrobial potency of cationic antimicrobial peptides can be predicted from their amino acid composition: Application to the detection of "cryptic" antimicrobial peptides. <i>Journal of Theoretical Biology</i> , 2017, 419, 254-265. | 1.7 | 89 |
| 4 | Exploring the role of unnatural amino acids in antimicrobial peptides. <i>Scientific Reports</i> , 2018, 8, 8888. | 3.3 | 76 |
| 5 | Onconase: An Unusually Stable Protein. <i>Biochemistry</i> , 2000, 39, 8711-8718. | 2.5 | 68 |
| 6 | Expression and purification of the recombinant subunits of toluene/o -xylene monooxygenase and reconstitution of the active complex. <i>FEBS Journal</i> , 2002, 269, 5689-5699. | 0.2 | 67 |
| 7 | Novel human bioactive peptides identified in Apolipoprotein B: Evaluation of their therapeutic potential. <i>Biochemical Pharmacology</i> , 2017, 130, 34-50. | 4.4 | 64 |
| 8 | Mining for encrypted peptide antibiotics in the human proteome. <i>Nature Biomedical Engineering</i> , 2022, 6, 67-75. | 22.5 | 64 |
| 9 | 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. | 3.8 | 63 |
| 10 | 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. | 2.8 | 57 |
| 11 | 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. | 4.7 | 54 |
| 12 | 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. | 3.4 | 51 |
| 13 | 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. | 3.3 | 51 |
| 14 | Effective expression and purification of recombinant onconase, an antitumor protein. <i>FEBS Letters</i> , 1999, 463, 211-215. | 2.8 | 50 |
| 15 | The Importance of Dynamic Effects on the Enzyme Activity. <i>Journal of Biological Chemistry</i> , 2005, 280, 17953-17960. | 3.4 | 49 |
| 16 | Cost-effective production of recombinant peptides in <i>Escherichia coli</i> . <i>New Biotechnology</i> , 2019, 51, 39-48. | 4.4 | 49 |
| 17 | Complete sequencing of <i>Novosphingobium</i> sp. PP1Y reveals a biotechnologically meaningful metabolic pattern. <i>BMC Genomics</i> , 2014, 15, 384. | 2.8 | 44 |
| 18 | Contribution of Chain Termini to the Conformational Stability and Biological Activity of Onconase. <i>Biochemistry</i> , 2001, 40, 9097-9103. | 2.5 | 41 |

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|----|---|------|-----------|
| 19 | 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. | 3.1 | 39 |
| 20 | 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. | 2.5 | 39 |
| 21 | Isolation of an <i>Escherichia coli</i> K4 kfoC mutant over-producing capsular chondroitin. <i>Microbial Cell Factories</i> , 2010, 9, 34. | 4.0 | 36 |
| 22 | The role of electrostatic interactions in the antitumor activity of dimeric RNases. <i>FEBS Journal</i> , 2006, 273, 3687-3697. | 4.7 | 35 |
| 23 | The thermophilic archaeon <i>Sulfolobus solfataricus</i> is able to grow on phenol. <i>Research in Microbiology</i> , 2005, 156, 677-689. | 2.1 | 34 |
| 24 | 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. | 3.1 | 33 |
| 25 | A new peptide-based fluorescent probe selective for zinc (<sc>ii</sc>) and copper (<sc>ii</sc>). <i>Journal of Materials Chemistry B</i> , 2016, 4, 6979-6988. | 5.8 | 33 |
| 26 | 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. | 2.6 | 30 |
| 27 | Class I Hydrophobin Vmh2 Adopts Atypical Mechanisms to Self-Assemble into Functional Amyloid Fibrils. <i>Biomacromolecules</i> , 2016, 17, 954-964. | 5.4 | 29 |
| 28 | Insights into the anticancer properties of the first antimicrobial peptide from Archaea. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 2155-2164. | 2.4 | 29 |
| 29 | Human apolipoprotein E as a reservoir of cryptic bioactive peptides: The case of ApoE 133&€167. <i>Journal of Peptide Science</i> , 2018, 24, e3095. | 1.4 | 28 |
| 30 | Effects of human antimicrobial cryptides identified in apolipoprotein B depend on specific features of bacterial strains. <i>Scientific Reports</i> , 2019, 9, 6728. | 3.3 | 28 |
| 31 | 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. | 3.1 | 26 |
| 32 | Cryptic Antimicrobial Peptides: Identification Methods and Current Knowledge of their Immunomodulatory Properties. <i>Current Pharmaceutical Design</i> , 2018, 24, 1054-1066. | 1.9 | 26 |
| 33 | Membrane disintegration by the antimicrobial peptide (P)GKY20: lipid segregation and domain formation. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 3989-3998. | 2.8 | 26 |
| 34 | A machine learning-enhanced biosensor for mercury detection based on an hydrophobin chimera. <i>Biosensors and Bioelectronics</i> , 2022, 196, 113696. | 10.1 | 26 |
| 35 | A Semi-Rational Approach to Engineering Laccase Enzymes. <i>Molecular Biotechnology</i> , 2010, 46, 149-156. | 2.4 | 25 |
| 36 | Novel promising linezolid analogues: Rational design, synthesis and biological evaluation. <i>European Journal of Medicinal Chemistry</i> , 2013, 69, 779-785. | 5.5 | 25 |

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|----|---|-----|-----------|
| 37 | 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. | 4.0 | 24 |
| 38 | 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. | 2.6 | 24 |
| 39 | A new active antimicrobial peptide from PD-L4, 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. | 2.8 | 22 |
| 40 | Mutation of Glutamic Acid 103 of Toluene o-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. | 3.1 | 19 |
| 41 | Production of biofunctionalized MoS ₂ flakes with rationally modified lysozyme: a biocompatible 2D hybrid material. <i>2D Materials</i> , 2017, 4, 035007. | 4.4 | 19 |
| 42 | 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. | 5.2 | 19 |
| 43 | 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 |
| 44 | 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. | 3.6 | 16 |
| 45 | α -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 |
| 46 | 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. | 3.0 | 13 |
| 47 | Host defence peptides identified in human apolipoprotein B as promising antifungal agents. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 1953-1964. | 3.6 | 13 |
| 48 | Host Defence Cryptides from Human Apolipoproteins: Applications in Medicinal Chemistry. <i>Current Topics in Medicinal Chemistry</i> , 2020, 20, 1324-1337. | 2.1 | 13 |
| 49 | Conformational analysis of putative regulatory subunit D of the toluene/o-xylene-monooxygenase complex from <i>Pseudomonas stutzeri</i> OX1. <i>Protein Science</i> , 2001, 10, 482-490. | 7.6 | 12 |
| 50 | Human cytomegalovirus pUL10 interacts with leukocytes and impairs TCR-mediated T cell activation. <i>Immunology and Cell Biology</i> , 2016, 94, 849-860. | 2.3 | 12 |
| 51 | The Toluene o-Xylene Monooxygenase Enzymatic Activity for the Biosynthesis of Aromatic Antioxidants. <i>PLoS ONE</i> , 2015, 10, e0124427. | 2.5 | 12 |
| 52 | Fluorescent peptide dH3w: A sensor for environmental monitoring of mercury (II). <i>PLoS ONE</i> , 2018, 13, e0204164. | 2.5 | 11 |
| 53 | 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. | 2.2 | 11 |
| 54 | Impact of a Single Point Mutation on the Antimicrobial and Fibrillogenic Properties of Cryptides from Human Apolipoprotein B. <i>Pharmaceutics</i> , 2021, 14, 631. | 3.8 | 11 |

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|----|---|-----|-----------|
| 55 | 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. | 2.5 | 11 |
| 56 | Modified denatured lysozyme effectively solubilizes fullerene c60 nanoparticles in water. <i>Nanotechnology</i> , 2017, 28, 335601. | 2.6 | 10 |
| 57 | Encapsulating properties of sulfobutylether- β -cyclodextrin toward a thrombin-derived antimicrobial peptide. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 3249-3256. | 3.6 | 10 |
| 58 | Similarities and differences for membranotropic action of three unnatural antimicrobial peptides. <i>Journal of Peptide Science</i> , 2020, 26, e3270. | 1.4 | 10 |
| 59 | New clues into the self-assembly of Vmh2, a basidiomycota class I hydrophobin. <i>Biological Chemistry</i> , 2018, 399, 895-901. | 2.5 | 9 |
| 60 | Marine hydrocarbonoclastic bacteria. , 2013, , 373-402. | | 8 |
| 61 | The nucleoid as a scaffold for the assembly of bacterial signaling complexes. <i>PLoS Genetics</i> , 2017, 13, e1007103. | 3.5 | 8 |
| 62 | 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. | 4.7 | 7 |
| 63 | Antimicrobial d-amino acid oxidase-derived peptides specify gut microbiota. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 3607-3620. | 5.4 | 6 |
| 64 | Enthalpic and entropic consequences of the removal of disulfide bridges in ribonuclease A. <i>Thermochimica Acta</i> , 2000, 364, 165-172. | 2.7 | 5 |
| 65 | Enzymes as a Reservoir of Host Defence Peptides. <i>Current Topics in Medicinal Chemistry</i> , 2020, 20, 1310-1323. | 2.1 | 5 |
| 66 | Denatured lysozyme-coated carbon nanotubes: a versatile biohybrid material. <i>Scientific Reports</i> , 2019, 9, 16643. | 3.3 | 3 |
| 67 | 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. | 3.8 | 3 |
| 68 | Molecular Dissection of dH3w, A Fluorescent Peptidyl Sensor for Zinc and Mercury. <i>Sensors</i> , 2020, 20, 598. | 3.8 | 2 |
| 69 | Environment-Sensitive Fluorescent Labelling of Peptides by Luciferin Analogues. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13312. | 4.1 | 1 |
| 70 | Thermal Stability of Onconase and Some Mutant Forms. <i>Biocatalysis and Biotransformation</i> , 2001, 19, 459-468. | 2.0 | 0 |