

Robert E Hancock

List of Publications by Year in descending order

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Version: 2024-02-01

244
papers

18,553
citations

17429

63
h-index

15716

125
g-index

250
all docs

250
docs citations

250
times ranked

23088
citing authors

#	ARTICLE	IF	CITATIONS
1	Allelic variants of a potato <i>HEAT SHOCK COGNATE 70</i> gene confer improved tuber yield under a wide range of environmental conditions. <i>Food and Energy Security</i> , 2023, 12, .	2.0	5
2	Biofortification of common bean (<i>Phaseolus vulgaris</i> L.) with iron and zinc: Achievements and challenges. <i>Food and Energy Security</i> , 2023, 12, .	2.0	10
3	Predicting sepsis severity at first clinical presentation: The role of endotypes and mechanistic signatures. <i>EBioMedicine</i> , 2022, 75, 103776.	2.7	74
4	Gut microbes shape microglia and cognitive function during malnutrition. <i>Glia</i> , 2022, 70, 820-841.	2.5	6
5	Antibiofilm and immunomodulatory resorbable nanofibrous filing for dental pulp regenerative procedures. <i>Bioactive Materials</i> , 2022, 16, 173-186.	8.6	13
6	WHIRLY1 functions in the nucleus to regulate barley leaf development and associated metabolite profiles. <i>Biochemical Journal</i> , 2022, 479, 641-659.	1.7	2
7	Targeting the <i>Pseudomonas aeruginosa</i> Virulence Factor Phospholipase C With Engineered Liposomes. <i>Frontiers in Microbiology</i> , 2022, 13, 867449.	1.5	2
8	Assessing the <i>In Vivo</i> Effectiveness of Cationic Lipid Nanoparticles with a Triple Adjuvant for Intranasal Vaccination against the Respiratory Pathogen <i>Bordetella pertussis</i> . <i>Molecular Pharmaceutics</i> , 2022, 19, 1814-1824.	2.3	5
9	Antimicrobial properties of spray-dried cellulose nanocrystals and metal oxide-based nanoparticles-in-microspheres. <i>Chemical Engineering Journal Advances</i> , 2022, 10, 100273.	2.4	14
10	Iron and zinc bioavailability in common bean (<i>Phaseolus vulgaris</i>) is dependent on chemical composition and cooking method. <i>Food Chemistry</i> , 2022, 387, 132900.	4.2	8
11	Competition between <i>Pseudomonas aeruginosa</i> and <i>Staphylococcus aureus</i> is dependent on intercellular signaling and regulated by the NtrBC two-component system. <i>Scientific Reports</i> , 2022, 12, .	1.6	6
12	SPECT/CT Imaging of ¹¹¹ Ag for the Preclinical Evaluation of Silver-Based Antimicrobial Nanomedicines. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 26382-26393.	4.0	5
13	The Small RNAs PA2952.1 and PrrH as Regulators of Virulence, Motility, and Iron Metabolism in <i>Pseudomonas aeruginosa</i> . <i>Applied and Environmental Microbiology</i> , 2021, 87, .	1.4	9
14	Ivacaftor or lumacaftor/ivacaftor treatment does not alter the core CF airway epithelial gene response to rhinovirus. <i>Journal of Cystic Fibrosis</i> , 2021, 20, 97-105.	0.3	6
15	The impact of home storage conditions on the accumulation of acrylamide precursors in potato tubers. <i>Annals of Applied Biology</i> , 2021, 178, 304-314.	1.3	2
16	Recovery of Oral <i>In Vitro</i> Biofilms after Exposure to Peptides and Chlorhexidine. <i>Journal of Endodontics</i> , 2021, 47, 466-471.	1.4	7
17	Temporal physiological response of pine to <i>Fusarium circinatum</i> infection is dependent on host susceptibility level: the role of ABA catabolism. <i>Tree Physiology</i> , 2021, 41, 801-816.	1.4	8
18	Reflective mulch increases fruit yield of highbush blueberry (<i>Vaccinium corymbosum</i> L. cv. Darrow) grown in a northern maritime environment while maintaining key fruit quality traits. <i>Journal of the Science of Food and Agriculture</i> , 2021, 101, 3376-3385.	1.7	5

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19	Antibiofilm peptides: overcoming biofilm-related treatment failure. <i>RSC Advances</i> , 2021, 11, 2718-2728.	1.7	28
20	Self-Limiting Mussel Inspired Thin Antifouling Coating with Broad-Spectrum Resistance to Biofilm Formation to Prevent Catheter-Associated Infection in Mouse and Porcine Models. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001573.	3.9	22
21	Toward the Design of Potato Tolerant to Abiotic Stress. <i>Methods in Molecular Biology</i> , 2021, 2354, 387-399.	0.4	3
22	Different Disease Endotypes in Phenotypically Similar Vasculitides Affecting Small-to-Medium Sized Blood Vessels. <i>Frontiers in Immunology</i> , 2021, 12, 638571.	2.2	7
23	Rapid microwave-based method for the preparation of antimicrobial lignin-capped silver nanoparticles active against multidrug-resistant bacteria. <i>International Journal of Pharmaceutics</i> , 2021, 596, 120299.	2.6	8
24	Peptide 1018 inhibits swarming and influences Anr-regulated gene expression downstream of the stringent stress response in <i>Pseudomonas aeruginosa</i> . <i>PLoS ONE</i> , 2021, 16, e0250977.	1.1	3
25	Microtiter plate assays to assess antibiofilm activity against bacteria. <i>Nature Protocols</i> , 2021, 16, 2615-2632.	5.5	58
26	An Overview of Biological and Computational Methods for Designing Mechanism-Informed Anti-biofilm Agents. <i>Frontiers in Microbiology</i> , 2021, 12, 640787.	1.5	25
27	Assessing biofilm inhibition and immunomodulatory activity of small amounts of synthetic host defense peptides synthesized using SPOT-array technology. <i>Nature Protocols</i> , 2021, 16, 1850-1870.	5.5	5
28	Combining QTL Mapping and Gene Expression Analysis to Elucidate the Genetic Control of "Crumbly" Fruit in Red Raspberry (<i>Rubus idaeus</i> L.). <i>Agronomy</i> , 2021, 11, 794.	1.3	5
29	Antibiofilm activity of host defence peptides: complexity provides opportunities. <i>Nature Reviews Microbiology</i> , 2021, 19, 786-797.	13.6	129
30	Rapid Assembly of Infection-Resistant Coatings: Screening and Identification of Antimicrobial Peptides Works in Cooperation with an Antifouling Background. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 36784-36799.	4.0	21
31	Testing physiologically relevant conditions in minimal inhibitory concentration assays. <i>Nature Protocols</i> , 2021, 16, 3761-3774.	5.5	28
32	RNase III and RNase E Influence Posttranscriptional Regulatory Networks Involved in Virulence Factor Production, Metabolism, and Regulatory RNA Processing in <i>Bordetella pertussis</i> . <i>MSphere</i> , 2021, 6, e0065021.	1.3	3
33	Journal of Experimental Botany 70th anniversary: plant metabolism in a changing world. <i>Journal of Experimental Botany</i> , 2021, 72, 5939-5941.	2.4	0
34	Enzymatically releasable polyethylene glycol " host defense peptide conjugates with improved activity and biocompatibility. <i>Journal of Controlled Release</i> , 2021, 339, 220-231.	4.8	8
35	Senescent sweetening in potato (<i>Solanum tuberosum</i>) tubers is associated with a reduction in plastidial glucose-6-phosphate/phosphate translocator transcripts. <i>Postharvest Biology and Technology</i> , 2021, 181, 111637.	2.9	5
36	Human organoid biofilm model for assessing antibiofilm activity of novel agents. <i>Npj Biofilms and Microbiomes</i> , 2021, 7, 8.	2.9	33

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37	Contribution of Swarming Motility to Dissemination in a <i>Pseudomonas aeruginosa</i> Murine Skin Abscess Infection Model. <i>Journal of Infectious Diseases</i> , 2021, 224, 726-733.	1.9	16
38	Host Defense Peptide-Mimicking Polymers and Polymeric-Brush-Tethered Host Defense Peptides: Recent Developments, Limitations, and Potential Success. <i>Pharmaceutics</i> , 2021, 13, 1820.	2.0	16
39	Multifunctional Antibiotic-Host Defense Peptide Conjugate Kills Bacteria, Eradicates Biofilms, and Modulates the Innate Immune Response. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 16854-16863.	2.9	18
40	Vitamin C in Plants: Novel Concepts, New Perspectives, and Outstanding Issues. <i>Antioxidants and Redox Signaling</i> , 2020, 32, 463-485.	2.5	84
41	Exploring the pathophysiology of post-sepsis syndrome to identify therapeutic opportunities. <i>EBioMedicine</i> , 2020, 61, 103044.	2.7	42
42	Systems Biology Methods Applied to Blood and Tissue for a Comprehensive Analysis of Immune Response to Hepatitis B Vaccine in Adults. <i>Frontiers in Immunology</i> , 2020, 11, 580373.	2.2	28
43	Cyclic Derivative of Host-Defense Peptide IDR-1018 Improves Proteolytic Stability, Suppresses Inflammation, and Enhances In Vivo Activity. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 9228-9236.	2.9	39
44	The Stringent Stress Response Controls Proteases and Global Regulators under Optimal Growth Conditions in <i>Pseudomonas aeruginosa</i> . <i>MSystems</i> , 2020, 5, .	1.7	23
45	Effect of phosphorus supply on root traits of two <i>Brassica oleracea</i> L. genotypes. <i>BMC Plant Biology</i> , 2020, 20, 368.	1.6	15
46	Systems Biology Approaches to Understanding the Human Immune System. <i>Frontiers in Immunology</i> , 2020, 11, 1683.	2.2	23
47	Host Defense Peptide-Mimicking Amphiphilic β -Peptide Polymer (Bu:DM) Exhibiting Anti-Biofilm, Immunomodulatory, and In Vivo Anti-Infective Activity. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 12921-12928.	2.9	25
48	MDA-MB-231 Breast Cancer Cells Resistant to Pleurocidin-Family Lytic Peptides Are Chemosensitive and Exhibit Reduced Tumor-Forming Capacity. <i>Biomolecules</i> , 2020, 10, 1220.	1.8	7
49	Mechanistic Understanding Enables the Rational Design of Salicylanilide Combination Therapies for Gram-Negative Infections. <i>MBio</i> , 2020, 11, .	1.8	28
50	A novel mouse model of chronic suppurative otitis media and its use in preclinical antibiotic evaluation. <i>Science Advances</i> , 2020, 6, eabc1828.	4.7	14
51	Molecular dynamics simulations informed by membrane lipidomics reveal the structure-interaction relationship of polymyxins with the lipid A-based outer membrane of <i>Acinetobacter baumannii</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2020, 75, 3534-3543.	1.3	25
52	Preparing for Life: Plasma Proteome Changes and Immune System Development During the First Week of Human Life. <i>Frontiers in Immunology</i> , 2020, 11, 578505.	2.2	23
53	Multi-Omic Data Integration Allows Baseline Immune Signatures to Predict Hepatitis B Vaccine Response in a Small Cohort. <i>Frontiers in Immunology</i> , 2020, 11, 578801.	2.2	20
54	Identification of novel targets of azithromycin activity against <i>Pseudomonas aeruginosa</i> grown in physiologically relevant media. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 33519-33529.	3.3	32

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55	Multidrug Adaptive Resistance of <i>Pseudomonas aeruginosa</i> Swarming Cells. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	1.4	30
56	Bacterial Aggregation Triggered by Fibril Forming Tryptophan-Rich Sequences: Effects of Peptide Side Chain and Membrane Phospholipids. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26852-26867.	4.0	22
57	Clinical Protocol for a Longitudinal Cohort Study Employing Systems Biology to Identify Markers of Vaccine Immunogenicity in Newborn Infants in The Gambia and Papua New Guinea. <i>Frontiers in Pediatrics</i> , 2020, 8, 197.	0.9	12
58	In Vitro and In Vivo Antibiotic Capacity of Two Host Defense Peptides. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	1.4	9
59	Whole blood transcriptional responses of very preterm infants during late-onset sepsis. <i>PLoS ONE</i> , 2020, 15, e0233841.	1.1	17
60	Utilizing Organoid and Air-Liquid Interface Models as a Screening Method in the Development of New Host Defense Peptides. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 228.	1.8	31
61	Insights into the mechanism of action of two analogues of aurein 2.2. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183262.	1.4	14
62	Surfing motility is a complex adaptation dependent on the stringent stress response in <i>Pseudomonas aeruginosa</i> LESB58. <i>PLoS Pathogens</i> , 2020, 16, e1008444.	2.1	16
63	Photosynthetic plasticity allows blueberry (<i>Vaccinium corymbosum</i> L.) plants to compensate for yield loss under conditions of high sink demand. <i>Environmental and Experimental Botany</i> , 2020, 174, 104031.	2.0	9
64	MetaBridge: An Integrative Multi-Omics Tool for Metabolite-Enzyme Mapping. <i>Current Protocols in Bioinformatics</i> , 2020, 70, e98.	25.8	8
65	Physiological, Biochemical, and Transcriptional Responses to Single and Combined Abiotic Stress in Stress-Tolerant and Stress-Sensitive Potato Genotypes. <i>Frontiers in Plant Science</i> , 2020, 11, 169.	1.7	79
66	The value of antimicrobial peptides in the age of resistance. <i>Lancet Infectious Diseases</i> , The, 2020, 20, e216-e230.	4.6	573
67	Quantitative trait loci mapping of polyphenol metabolites in blackcurrant (<i>Ribes nigrum</i> L.). <i>Metabolomics</i> , 2020, 16, 25.	1.4	6
68	AB569, a nontoxic chemical tandem that kills major human pathogenic bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 4921-4930.	3.3	6
69	Selective anticancer activity of synthetic peptides derived from the host defence peptide tritripticin. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183228.	1.4	20
70	Overexpression of the Small RNA PA0805.1 in <i>Pseudomonas aeruginosa</i> Modulates the Expression of a Large Set of Genes and Proteins, Resulting in Altered Motility, Cytotoxicity, and Tobramycin Resistance. <i>MSystems</i> , 2020, 5, .	1.7	13
71	A Bovine Enteric Infection Model to Analyze Parenteral Vaccine-Induced Mucosal Immunity and Accelerate Vaccine Discovery. <i>Frontiers in Immunology</i> , 2020, 11, 586659.	2.2	0
72	Whole blood transcriptional responses of very preterm infants during late-onset sepsis. , 2020, 15, e0233841.		0

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73	Whole blood transcriptional responses of very preterm infants during late-onset sepsis. , 2020, 15, e0233841.		0
74	Whole blood transcriptional responses of very preterm infants during late-onset sepsis. , 2020, 15, e0233841.		0
75	Whole blood transcriptional responses of very preterm infants during late-onset sepsis. , 2020, 15, e0233841.		0
76	Title is missing!. , 2020, 16, e1008444.		0
77	Title is missing!. , 2020, 16, e1008444.		0
78	Title is missing!. , 2020, 16, e1008444.		0
79	Title is missing!. , 2020, 16, e1008444.		0
80	Title is missing!. , 2020, 16, e1008444.		0
81	Title is missing!. , 2020, 16, e1008444.		0
82	Identification of an IDR peptide formulation candidate that prevents peptide aggregation and retains immunomodulatory activity. Peptide Science, 2019, 111, e24077.	1.0	11
83	Design and Assessment of Anti-Biofilm Peptides: Steps Toward Clinical Application. Journal of Innate Immunity, 2019, 11, 193-204.	1.8	81
84	Outer Membrane Interaction Kinetics of New Polymyxin B Analogs in Gram-Negative Bacilli. Antimicrobial Agents and Chemotherapy, 2019, 63, .	1.4	43
85	Controlling biofilm formation with nitroxide functional surfaces. Polymer Chemistry, 2019, 10, 4252-4258.	1.9	15
86	Effect of Long-term Exposure to Peptides on Mono- and Multispecies Biofilms in Dentinal Tubules. Journal of Endodontics, 2019, 45, 1522-1528.	1.4	14
87	An aldo-keto reductase with 2-keto-l-gulonate reductase activity functions in l-tartaric acid biosynthesis from vitamin C in Vitis vinifera. Journal of Biological Chemistry, 2019, 294, 15932-15946.	1.6	14
88	Influence of Non-natural Cationic Amino Acids on the Biological Activity Profile of Innate Defense Regulator Peptides. Journal of Medicinal Chemistry, 2019, 62, 10294-10304.	2.9	11
89	Metabolomics Study of the Synergistic Killing of Polymyxin B in Combination with Amikacin against Polymyxin-Susceptible and -Resistant Pseudomonas aeruginosa. Antimicrobial Agents and Chemotherapy, 2019, 64, .	1.4	28
90	Hyaluronic acid-based nanogels improve in vivo compatibility of the anti-biofilm peptide DJK-5. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 20, 102022.	1.7	34

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91	Pinus Susceptibility to Pitch Canker Triggers Specific Physiological Responses in Symptomatic Plants: An Integrated Approach. <i>Frontiers in Plant Science</i> , 2019, 10, 509.	1.7	18
92	Dynamic molecular changes during the first week of human life follow a robust developmental trajectory. <i>Nature Communications</i> , 2019, 10, 1092.	5.8	151
93	Dismantling the bacterial virulence program. <i>Microbial Biotechnology</i> , 2019, 12, 409-413.	2.0	9
94	NetworkAnalyst 3.0: a visual analytics platform for comprehensive gene expression profiling and meta-analysis. <i>Nucleic Acids Research</i> , 2019, 47, W234-W241.	6.5	1,191
95	Aurein-Derived Antimicrobial Peptides Formulated with Pegylated Phospholipid Micelles to Target Methicillin-Resistant <i>Staphylococcus aureus</i> Skin Infections. <i>ACS Infectious Diseases</i> , 2019, 5, 443-453.	1.8	48
96	Characterization of Host Responses during <i>Pseudomonas aeruginosa</i> Acute Infection in the Lungs and Blood and after Treatment with the Synthetic Immunomodulatory Peptide IDR-1002. <i>Infection and Immunity</i> , 2019, 87, .	1.0	17
97	MetaBridge: enabling network-based integrative analysis via direct protein interactors of metabolites. <i>Bioinformatics</i> , 2018, 34, 3225-3227.	1.8	17
98	New Perspectives in Biofilm Eradication. <i>ACS Infectious Diseases</i> , 2018, 4, 93-106.	1.8	147
99	Photosynthetic limitation as a factor influencing yield in highbush blueberries (<i>Vaccinium</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 3069-3080.	2.4	23
100	A reversible light- and genotype-dependent acquired thermotolerance response protects the potato plant from damage due to excessive temperature. <i>Planta</i> , 2018, 247, 1377-1392.	1.6	19
101	The redox state of the apoplast influences the acclimation of photosynthesis and leaf metabolism to changing irradiance. <i>Plant, Cell and Environment</i> , 2018, 41, 1083-1097.	2.8	47
102	Engineering heat tolerance in potato by temperature-dependent expression of a specific allele of <i>HEAT SHOCK COGNATE 70</i> . <i>Plant Biotechnology Journal</i> , 2018, 16, 197-207.	4.1	62
103	S100A12 Serum Levels and PMN Counts Are Elevated in Childhood Systemic Vasculitides Especially Involving Proteinase 3 Specific Anti-neutrophil Cytoplasmic Antibodies. <i>Frontiers in Pediatrics</i> , 2018, 6, 341.	0.9	16
104	Raspberry Fruit Chemistry in Relation to Fruit Quality and Human Nutrition. , 2018, , 89-119.		6
105	Bone Environment Influences Irreversible Adhesion of a Methicillin-Susceptible <i>Staphylococcus aureus</i> Strain. <i>Frontiers in Microbiology</i> , 2018, 9, 2865.	1.5	18
106	Surfing Motility: a Conserved yet Diverse Adaptation among Motile Bacteria. <i>Journal of Bacteriology</i> , 2018, 200, .	1.0	32
107	Antimicrobial Effect of Peptide DJK-5 Used Alone or Mixed with EDTA on Mono- and Multispecies Biofilms in Dentin Canals. <i>Journal of Endodontics</i> , 2018, 44, 1709-1713.	1.4	20
108	Broad-Spectrum Adaptive Antibiotic Resistance Associated with <i>Pseudomonas aeruginosa</i> Mucin-Dependent Surfing Motility. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	1.4	25

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109	Gene expression analysis in <i>Eucalyptus globulus</i> exposed to drought stress in a controlled and a field environment indicates different strategies for short- and longer-term acclimation. <i>Tree Physiology</i> , 2018, 38, 1623-1639.	1.4	3
110	Liposomal Therapy Attenuates Dermonecrosis Induced by Community-Associated Methicillin-Resistant <i>Staphylococcus aureus</i> by Targeting β -Type Phenol-Soluble Modulins and β -Hemolysin. <i>EBioMedicine</i> , 2018, 33, 211-217.	2.7	18
111	Synergy between conventional antibiotics and anti-biofilm peptides in a murine, sub-cutaneous abscess model caused by recalcitrant ESKAPE pathogens. <i>PLoS Pathogens</i> , 2018, 14, e1007084.	2.1	160
112	Combined Drought and Heat Activates Protective Responses in <i>Eucalyptus globulus</i> That Are Not Activated When Subjected to Drought or Heat Stress Alone. <i>Frontiers in Plant Science</i> , 2018, 9, 819.	1.7	85
113	<i>Helicobacter pylori</i> Biofilm Formation Is Differentially Affected by Common Culture Conditions, and Proteins Play a Central Role in the Biofilm Matrix. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	27
114	A Transcript and Metabolite Atlas of Blackcurrant Fruit Development Highlights Hormonal Regulation and Reveals the Role of Key Transcription Factors. <i>Frontiers in Plant Science</i> , 2018, 9, 1235.	1.7	11
115	Novel roles for two-component regulatory systems in cytotoxicity and virulence-related properties in <i>Pseudomonas aeruginosa</i> . <i>AIMS Microbiology</i> , 2018, 4, 173-191.	1.0	22
116	New Mouse Model for Chronic Infections by Gram-Negative Bacteria Enabling the Study of Anti-Infective Efficacy and Host-Microbe Interactions. <i>MBio</i> , 2017, 8, .	1.8	97
117	Anti-adhesive antimicrobial peptide coating prevents catheter associated infection in a mouse urinary infection model. <i>Biomaterials</i> , 2017, 116, 69-81.	5.7	203
118	An Immunomodulatory Peptide Confers Protection in an Experimental Candidemia Murine Model. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	1.4	22
119	High-Performance Liquid Chromatography and Mass Spectrometry-Based Design of Proteolytically Stable Antimicrobial Peptides. <i>Methods in Molecular Biology</i> , 2017, 1548, 61-71.	0.4	10
120	Antimicrobial Peptides: An Introduction. <i>Methods in Molecular Biology</i> , 2017, 1548, 3-22.	0.4	197
121	Antibiofilm Effect of D-enantiomeric Peptide Alone and Combined with EDTA In Vitro. <i>Journal of Endodontics</i> , 2017, 43, 1862-1867.	1.4	22
122	Mechanisms of the Innate Defense Regulator Peptide-1002 Anti-Inflammatory Activity in a Sterile Inflammation Mouse Model. <i>Journal of Immunology</i> , 2017, 199, 3592-3603.	0.4	39
123	Redox Control of Aphid Resistance through Altered Cell Wall Composition and Nutritional Quality. <i>Plant Physiology</i> , 2017, 175, 259-271.	2.3	26
124	Sensing Mg^{2+} contributes to the resistance of <i>Pseudomonas aeruginosa</i> to complement-mediated opsonophagocytosis. <i>Environmental Microbiology</i> , 2017, 19, 4278-4286.	1.8	20
125	Aggregation and Its Influence on the Immunomodulatory Activity of Synthetic Innate Defense Regulator Peptides. <i>Cell Chemical Biology</i> , 2017, 24, 969-980.e4.	2.5	45
126	Ciprofloxacin-nitroxide hybrids with potential for biofilm control. <i>European Journal of Medicinal Chemistry</i> , 2017, 138, 590-601.	2.6	38

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127	Two Isoforms of Clp Peptidase in <i>Pseudomonas aeruginosa</i> Control Distinct Aspects of Cellular Physiology. <i>Journal of Bacteriology</i> , 2017, 199, .	1.0	37
128	Alternative strategies for the study and treatment of clinical bacterial biofilms. <i>Emerging Topics in Life Sciences</i> , 2017, 1, 41-53.	1.1	12
129	Synthetic Peptides to Target Stringent Response-Controlled Virulence in a <i>Pseudomonas aeruginosa</i> Murine Cutaneous Infection Model. <i>Frontiers in Microbiology</i> , 2017, 8, 1867.	1.5	67
130	A novel small RNA is important for biofilm formation and pathogenicity in <i>Pseudomonas aeruginosa</i> . <i>PLoS ONE</i> , 2017, 12, e0182582.	1.1	25
131	Synthetic host defense peptide IDR-1002 reduces inflammation in <i>Pseudomonas aeruginosa</i> lung infection. <i>PLoS ONE</i> , 2017, 12, e0187565.	1.1	24
132	Exosomes, your body's answer to immune health. <i>Annals of Translational Medicine</i> , 2017, 5, 81-81.	0.7	14
133	Peptide IDR-1002 Inhibits NF- κ B Nuclear Translocation by Inhibition of κ B Degradation and Activates p38/ERK1/2-MSK1-Dependent CREB Phosphorylation in Macrophages Stimulated with Lipopolysaccharide. <i>Frontiers in Immunology</i> , 2016, 7, 533.	2.2	23
134	A polyalanine peptide derived from polar fish with anti-infectious activities. <i>Scientific Reports</i> , 2016, 6, 21385.	1.6	46
135	Antibiofilm Peptides: Potential as Broad-Spectrum Agents. <i>Journal of Bacteriology</i> , 2016, 198, 2572-2578.	1.0	163
136	Bacterial Abscess Formation Is Controlled by the Stringent Stress Response and Can Be Targeted Therapeutically. <i>EBioMedicine</i> , 2016, 12, 219-226.	2.7	63
137	Integrated proteomics and metabolomics to unlock global and clonal responses of <i>Eucalyptus globulus</i> recovery from water deficit. <i>Metabolomics</i> , 2016, 12, 1.	1.4	41
138	Polymyxin: Alternative Mechanisms of Action and Resistance. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2016, 6, a025288.	2.9	273
139	Structural Studies of a Lipid-Binding Peptide from Tunicate Hemocytes with Anti-Biofilm Activity. <i>Scientific Reports</i> , 2016, 6, 27128.	1.6	24
140	Experimental and Theoretical Investigation of Multispecies Oral Biofilm Resistance to Chlorhexidine Treatment. <i>Scientific Reports</i> , 2016, 6, 27537.	1.6	51
141	Characterization of the watercress (<i>Nasturtium officinale</i> R. Br.; Brassicaceae) transcriptome using RNASeq and identification of candidate genes for important phytonutrient traits linked to human health. <i>BMC Genomics</i> , 2016, 17, 378.	1.2	33
142	Depicting how <i>Eucalyptus globulus</i> survives drought: involvement of redox and DNA methylation events. <i>Functional Plant Biology</i> , 2016, 43, 838.	1.1	19
143	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
144	Alternatives to antibiotics—a pipeline portfolio review. <i>Lancet Infectious Diseases</i> , The, 2016, 16, 239-251.	4.6	720

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145	The Structure of a Type 3 Secretion System (T3SS) Ruler Protein Suggests a Molecular Mechanism for Needle Length Sensing. <i>Journal of Biological Chemistry</i> , 2016, 291, 1676-1691.	1.6	36
146	Cross-tolerance to biotic and abiotic stresses in plants: a focus on resistance to aphid infestation. <i>Journal of Experimental Botany</i> , 2016, 67, 2025-2037.	2.4	189
147	Synthetic antibiofilm peptides. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 1061-1069.	1.4	173
148	Identification of novel cyclic lipopeptides from a positional scanning combinatorial library with enhanced antibacterial and antibiofilm activities. <i>European Journal of Medicinal Chemistry</i> , 2016, 108, 354-363.	2.6	48
149	Treatment of Oral Biofilms by a D-Enantiomeric Peptide. <i>PLoS ONE</i> , 2016, 11, e0166997.	1.1	37
150	Elucidating the genetic basis of antioxidant status in lettuce (<i>Lactuca sativa</i>). <i>Horticulture Research</i> , 2015, 2, 15055.	2.9	27
151	Clinical utilization of genomics data produced by the international <i>Pseudomonas aeruginosa</i> consortium. <i>Frontiers in Microbiology</i> , 2015, 6, 1036.	1.5	144
152	Potential of ciprofloxacin action against Gram-negative bacterial biofilms by a nitroxide. <i>Pathogens and Disease</i> , 2015, 73, .	0.8	36
153	High throughput screening methods for assessing antibiofilm and immunomodulatory activities of synthetic peptides. <i>Peptides</i> , 2015, 71, 276-285.	1.2	89
154	Antibiofilm Peptides Increase the Susceptibility of Carbapenemase-Producing <i>Klebsiella pneumoniae</i> Clinical Isolates to β -Lactam Antibiotics. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 3906-3912.	1.4	97
155	Toward Infection-Resistant Surfaces: Achieving High Antimicrobial Peptide Potency by Modulating the Functionality of Polymer Brush and Peptide. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 28591-28605.	4.0	73
156	WHIRLY1 Functions in the Control of Responses to Nitrogen Deficiency But Not Aphid Infestation in Barley. <i>Plant Physiology</i> , 2015, 168, 1140-1151.	2.3	20
157	Mechanisms of plant-insect interaction. <i>Journal of Experimental Botany</i> , 2015, 66, 421-424.	2.4	17
158	Systematic analysis of phloem-feeding insect-induced transcriptional reprogramming in <i>Arabidopsis</i> highlights common features and reveals distinct responses to specialist and generalist insects. <i>Journal of Experimental Botany</i> , 2015, 66, 495-512.	2.4	64
159	D-Enantiomeric Peptides that Eradicate Wild-Type and Multidrug-Resistant Biofilms and Protect against Lethal <i>Pseudomonas aeruginosa</i> Infections. <i>Chemistry and Biology</i> , 2015, 22, 196-205.	6.2	268
160	Cationic amphipathic peptides KT2 and RT2 are taken up into bacterial cells and kill planktonic and biofilm bacteria. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 1352-1358.	1.4	86
161	NetworkAnalyst for statistical, visual and network-based meta-analysis of gene expression data. <i>Nature Protocols</i> , 2015, 10, 823-844.	5.5	779
162	Anti-infective peptide IDR-1002 augments monocyte chemotaxis towards CCR5 chemokines. <i>Biochemical and Biophysical Research Communications</i> , 2015, 464, 800-806.	1.0	21

#	ARTICLE	IF	CITATIONS
163	Nitrogen deficiency in barley (<i>Hordeum vulgare</i>) seedlings induces molecular and metabolic adjustments that trigger aphid resistance. <i>Journal of Experimental Botany</i> , 2015, 66, 3639-3655.	2.4	60
164	Enhanced killing of breast cancer cells by a d-amino acid analog of the winter flounder-derived pleurocidin NRC-03. <i>Experimental and Molecular Pathology</i> , 2015, 99, 426-434.	0.9	23
165	More plant growth but less plant defence? First global gene expression data for plants grown in soil amended with biochar. <i>GCB Bioenergy</i> , 2015, 7, 658-672.	2.5	135
166	Treatment of Oral Multispecies Biofilms by an Anti-Biofilm Peptide. <i>PLoS ONE</i> , 2015, 10, e0132512.	1.1	65
167	Using anti-biofilm peptides to treat antibiotic-resistant bacterial infections. <i>Postdoc Journal</i> , 2015, 3, 1-8.	0.4	12
168	Highbush Blueberry Varietal Flavor Characters. , 2014, , 343-346.		0
169	Broad-Spectrum Anti-biofilm Peptide That Targets a Cellular Stress Response. <i>PLoS Pathogens</i> , 2014, 10, e1004152.	2.1	433
170	Day length dependent restructuring of the leaf transcriptome and metabolome in potato genotypes with contrasting tuberization phenotypes. <i>Plant, Cell and Environment</i> , 2014, 37, 1351-1363.	2.8	47
171	NetworkAnalyst - integrative approaches for protein-protein interaction network analysis and visual exploration. <i>Nucleic Acids Research</i> , 2014, 42, W167-W174.	6.5	398
172	Physiological, biochemical and molecular responses of the potato (<i>Solanum tuberosum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 T. <i>Plant, Cell and Environment</i> , 2014, 37, 439-450.	2.8	196
173	Metabolic effects of elevated temperature on organic acid degradation in ripening <i>Vitis vinifera</i> fruit. <i>Journal of Experimental Botany</i> , 2014, 65, 5975-5988.	2.4	209
174	A Broad-Spectrum Antibiofilm Peptide Enhances Antibiotic Action against Bacterial Biofilms. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 5363-5371.	1.4	262
175	Short-term response in leaf metabolism of perennial ryegrass (<i>Lolium perenne</i>) to alterations in nitrogen supply. <i>Metabolomics</i> , 2013, 9, 145-156.	1.4	42
176	Vitamin C and the Abscisic Acid-Insensitive 4 Transcription Factor Are Important Determinants of Aphid Resistance in <i>Arabidopsis</i> . <i>Antioxidants and Redox Signaling</i> , 2013, 18, 2091-2105.	2.5	68
177	Adaptive and Mutational Resistance: Role of Porins and Efflux Pumps in Drug Resistance. <i>Clinical Microbiology Reviews</i> , 2013, 26, 163-163.	5.7	13
178	InnateDB: systems biology of innate immunity and beyond—recent updates and continuing curation. <i>Nucleic Acids Research</i> , 2013, 41, D1228-D1233.	6.5	1,073
179	The ABA-INSENSITIVE-4 (ABI4) transcription factor links redox, hormone and sugar signaling pathways. <i>Plant Signaling and Behavior</i> , 2012, 7, 276-281.	1.2	40
180	Modeling the Ion Selectivity of the Phosphate Specific Channel OprP. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3639-3645.	2.1	28

#	ARTICLE	IF	CITATIONS
181	Modulating immunity as a therapy for bacterial infections. <i>Nature Reviews Microbiology</i> , 2012, 10, 243-254.	13.6	439
182	Infestation of potato (<i>Solanum tuberosum</i> L.) by the peach-potato aphid (<i>Myzus persicae</i>) Tj ETQq0 0 0 rgBT /Overlock 103	2.8	46
183	Plant responses to insect herbivory: interactions between photosynthesis, reactive oxygen species and hormonal signalling pathways. <i>Plant, Cell and Environment</i> , 2012, 35, 441-453.	2.8	262
184	Treatment with fungicides influences phytochemical quality of blackcurrant juice. <i>Annals of Applied Biology</i> , 2012, 160, 86-96.	1.3	22
185	Potato tuber pectin structure is influenced by pectin methyl esterase activity and impacts on cooked potato texture. <i>Journal of Experimental Botany</i> , 2011, 62, 371-381.	2.4	39
186	Pectin engineering to modify product quality in potato. <i>Plant Biotechnology Journal</i> , 2011, 9, 848-856.	4.1	19
187	Elevated atmospheric carbon dioxide impairs the performance of root-feeding vine weevils by modifying root growth and secondary metabolites. <i>Global Change Biology</i> , 2011, 17, 688-695.	4.2	43
188	Syringyl Lignin Is Unaltered by Severe Sinapyl Alcohol Dehydrogenase Suppression in Tobacco. <i>Plant Cell</i> , 2011, 23, 4492-4506.	3.1	34
189	The Transcription Factor ABI4 Is Required for the Ascorbic Acid-Dependent Regulation of Growth and Regulation of Jasmonate-Dependent Defense Signaling Pathways in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2011, 23, 3319-3334.	3.1	140
190	Enhancing the Nutritional Quality of Fruit Juices. , 2010, , 465-484.		5
191	Cathelicidins Link the Endocrine and Immune Systems. <i>Cell Host and Microbe</i> , 2010, 7, 257-259.	5.1	2
192	Flavonoid profiling and transcriptome analysis reveals new gene-metabolite correlations in tubers of <i>Solanum tuberosum</i> L.. <i>Journal of Experimental Botany</i> , 2010, 61, 1225-1238.	2.4	64
193	Recent Patents on Vitamin C: Opportunities for Crop Improvement and Single-Step Biological Manufacture. <i>Recent Patents on Food, Nutrition & Agriculture</i> , 2010, 1, 39-49.	0.5	6
194	Recent Patents on Vitamin C: Opportunities for Crop Improvement and Single-Step Biological Manufacture. <i>Recent Patents on Food, Nutrition & Agriculture</i> , 2009, 1, 39-49.	0.5	15
195	The sensor kinase PhoQ mediates virulence in <i>Pseudomonas aeruginosa</i> . <i>Microbiology (United Kingdom)</i> Tj ETQq1 1 0.784314 rgBT /Overlock 103	0.7	103
196	Sequestosome-1/p62 Is the Key Intracellular Target of Innate Defense Regulator Peptide. <i>Journal of Biological Chemistry</i> , 2009, 284, 36007-36011.	1.6	67
197	An iron-regulated LysR-type element mediates antimicrobial peptide resistance and virulence in <i>Yersinia pseudotuberculosis</i> . <i>Microbiology (United Kingdom)</i> , 2009, 155, 2168-2181.	0.7	24
198	Ascorbic acid conjugates isolated from the phloem of Cucurbitaceae. <i>Phytochemistry</i> , 2008, 69, 1850-1858.	1.4	27

#	ARTICLE	IF	CITATIONS
199	A role for symplastic gating in the control of the potato tuber life cycle. <i>Plant Signaling and Behavior</i> , 2008, 3, 27-29.	1.2	9
200	Co-ordinated gene expression during phases of dormancy release in raspberry (<i>Rubus idaeus</i> L.) buds. <i>Journal of Experimental Botany</i> , 2007, 58, 1035-1045.	2.4	187
201	Symplastic connection is required for bud outgrowth following dormancy in potato (<i>Solanum</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 1 2.8 66	2.8	66
202	L-Ascorbic acid accumulation in fruit of <i>Ribes nigrum</i> occurs by in situ biosynthesis via the L-galactose pathway. <i>Functional Plant Biology</i> , 2007, 34, 1080.	1.1	81
203	Host defence peptides from invertebrates â€“ emerging antimicrobial strategies. <i>Immunobiology</i> , 2006, 211, 315-322.	0.8	237
204	A high-throughput monolithic HPLC method for rapid Vitamin C phenotyping of berry fruit. <i>Phytochemical Analysis</i> , 2006, 17, 284-290.	1.2	36
205	Porins of the Outer Membrane of <i>Pseudomonas aeruginosa</i> . , 2005, , 61-77.		4
206	Modulation of Fructokinase Activity of Potato (<i>Solanum tuberosum</i>) Results in Substantial Shifts in Tuber Metabolism. <i>Plant and Cell Physiology</i> , 2005, 46, 1103-1115.	1.5	54
207	Biosynthesis and Catabolism of L-Ascorbic Acid in Plants. <i>Critical Reviews in Plant Sciences</i> , 2005, 24, 167-188.	2.7	108
208	Improving the Nutritional Value of Crops through Enhancement of L-Ascorbic Acid (Vitamin C) Content: A Rationale and Biotechnological Opportunities. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 5248-5257.	2.4	82
209	EFFECT OF NUTRIENT DEPRIVATION AND RESUPPLY ON METABOLITES AND ENZYMES RELATED TO CARBON ALLOCATION IN <i>GRACILARIA TENUISTIPITATA</i> (RHODOPHYTA)1. <i>Journal of Phycology</i> , 2004, 40, 305-314.	1.0	29
210	Identification, cloning and expression analysis of strawberry (<i>Fragaria x ananassa</i>) mitochondrial citrate synthase and mitochondrial malate dehydrogenase. <i>Physiologia Plantarum</i> , 2004, 121, 15-26.	2.6	39
211	Starch metabolism in developing strawberry (<i>Fragaria x ananassa</i>) fruits. <i>Physiologia Plantarum</i> , 2004, 121, 369-376.	2.6	42
212	Long-distance transport of L-ascorbic acid in potato. <i>BMC Plant Biology</i> , 2004, 4, 16.	1.6	76
213	Synthesis of L-ascorbic acid in the phloem. <i>BMC Plant Biology</i> , 2003, 3, 7.	1.6	72
214	Concerns regarding resistance to self-proteins. <i>Microbiology (United Kingdom)</i> , 2003, 149, 3343-3344.	0.7	20
215	Function of <i>Pseudomonas</i> Porins in Uptake and Efflux. <i>Annual Review of Microbiology</i> , 2002, 56, 17-38.	2.9	283
216	Colorimetric Biosensor Vesicles for Biotechnological Applications. <i>Materials Research Society Symposia Proceedings</i> , 2002, 724, N7.23.1.	0.1	1

#	ARTICLE	IF	CITATIONS
217	Biotechnological approaches for l-ascorbic acid production. Trends in Biotechnology, 2002, 20, 299-305.	4.9	111
218	Role of membranes in the activities of antimicrobial cationic peptides. FEMS Microbiology Letters, 2002, 206, 143-149.	0.7	504
219	Synergistic Interactions between Mammalian Antimicrobial Defense Peptides. Antimicrobial Agents and Chemotherapy, 2001, 45, 1558-1560.	1.4	232
220	Tuberization in Potato Involves a Switch from Apoplastic to Symplastic Phloem Unloading. Plant Cell, 2001, 13, 385-398.	3.1	233
221	The use of micro-organisms for L- ascorbic acid production: current status and future perspectives. Applied Microbiology and Biotechnology, 2001, 56, 567-576.	1.7	43
222	Synergy of Histone-Derived Peptides of Coho Salmon with Lysozyme and Flounder Pleurocidin. Antimicrobial Agents and Chemotherapy, 2001, 45, 1337-1342.	1.4	114
223	Adherence of Burkholderia cepacia to respiratory tract epithelial cells and inhibition with dextrans. Microbiology (United Kingdom), 2001, 147, 2651-2658.	0.7	17
224	Biosynthesis of L-ascorbic acid (vitamin C) by Saccharomyces cerevisiae. FEMS Microbiology Letters, 2000, 186, 245-250.	0.7	65
225	The Amino Terminus of Pseudomonas aeruginosa Outer Membrane Protein OprF Forms Channels in Lipid Bilayer Membranes: Correlation with a Three-Dimensional Model. Journal of Bacteriology, 2000, 182, 5251-5255.	1.0	63
226	Biosynthesis of ?-ascorbic acid (vitamin C) by Saccharomyces cerevisiae. FEMS Microbiology Letters, 2000, 186, 245-250.	0.7	47
227	Antibacterial Action of Structurally Diverse Cationic Peptides on Gram-Positive Bacteria. Antimicrobial Agents and Chemotherapy, 2000, 44, 2086-2092.	1.4	421
228	Antibiotic resistance in Pseudomonas aeruginosa: mechanisms and impact on treatment. Drug Resistance Updates, 2000, 3, 247-255.	6.5	380
229	Role of Pseudomonas aeruginosa PhoP-PhoQ in resistance to antimicrobial cationic peptides and aminoglycosides. Microbiology (United Kingdom), 2000, 146, 2543-2554.	0.7	177
230	PhoP-PhoQ homologues in Pseudomonas aeruginosa regulate expression of the outer-membrane protein OprH and polymyxin B resistance. Molecular Microbiology, 1999, 34, 305-316.	1.2	214
231	Host Defence (Cationic) Peptides. Drugs, 1999, 57, 469-473.	4.9	108
232	Resistance Mechanisms in <i>Pseudomonas aeruginosa</i> and Other Nonfermentative Gram-Negative Bacteria. Clinical Infectious Diseases, 1998, 27, S93-S99.	2.9	469
233	The Bradyrhizobium japonicum noeD Gene: A Negatively Acting, Genotype-Specific Nodulation Gene for Soybean. Molecular Plant-Microbe Interactions, 1998, 11, 476-488.	1.4	16
234	Physical mapping of 32 genetic markers on the Pseudomonas aeruginosa PAO1 chromosome. Microbiology (United Kingdom), 1996, 142, 79-86.	0.7	22

#	ARTICLE	IF	CITATIONS
235	Functional and regulatory analysis of the OmpF-like porin, OpnP, of the symbiotic bacterium <i>Xenorhabdus nematophilus</i> . <i>Molecular Microbiology</i> , 1995, 18, 779-789.	1.2	26
236	Membrane topology and site-specific mutagenesis of <i>Pseudomonas aeruginosa</i> porin OprD. <i>Molecular Microbiology</i> , 1995, 16, 931-941.	1.2	76
237	Linker-insertion mutagenesis of <i>Pseudomonas aeruginosa</i> outer membrane protein OprF. <i>Molecular Microbiology</i> , 1993, 10, 283-292.	1.2	24
238	Protection in simian immunodeficiency virus-vaccinated monkeys correlates with anti-HLA class I antibody response.. <i>Journal of Experimental Medicine</i> , 1992, 176, 1203-1207.	4.2	109
239	Polyphosphate-selective porin OprO of <i>Pseudomonas aeruginosa</i> : expression, purification and sequence. <i>Molecular Microbiology</i> , 1992, 6, 2319-2326.	1.2	55
240	Outer-membrane protein PhoE from <i>Escherichia coli</i> forms anion-selective pores in lipid-bilayer membranes. <i>FEBS Journal</i> , 1984, 140, 319-324.	0.2	67
241	Phosphate transport in <i>Pseudomonas aeruginosa</i> . Involvement of a periplasmic phosphate-binding protein. <i>FEBS Journal</i> , 1984, 144, 607-612.	0.2	66
242	Host Defense (Antimicrobial) Peptides and Proteins. , 0, , 57-67.		2
243	Cathelicidins and functional analogues as antiseptics molecules. , 0, .		1
244	Assessing the Activity of Antimicrobial Peptides Against Common Marine Bacteria Located in Rotifer (<i>Brachionus plicatilis</i>) Cultures. <i>Probiotics and Antimicrobial Proteins</i> , 0, , .	1.9	0