Laszlo Otvos

List of Publications by Year
in descending order

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71 papers	4,065 citations	117625 34 h-index	114465 63 g-index
72 all docs	72 docs citations	72 times ranked	4576 citing authors

#	Article	IF	Citations
1	The Antibacterial Peptide Pyrrhocoricin Inhibits the ATPase Actions of DnaK and Prevents Chaperone-Assisted Protein Folding. Biochemistry, 2001, 40, 3016-3026.	2.5	433
2	Interaction between Heat Shock Proteins and Antimicrobial Peptides. Biochemistry, 2000, 39, 14150-14159.	2.5	322
3	Current challenges in peptide-based drug discovery. Frontiers in Chemistry, 2014, 2, 62.	3.6	276
4	Proline-rich antimicrobial peptides: potential therapeutics against antibiotic-resistant bacteria. Amino Acids, 2014, 46, 2287-2294.	2.7	158
5	Unique Alzheimer's Disease Paired Helical Filament Specific Epitopes Involve Double Phosphorylation at Specific Sites. Biochemistry, 1997, 36, 8114-8124.	2.5	154
6	Design and development of a peptide-based adiponectin receptor agonist for cancer treatment. BMC Biotechnology, 2011, 11, 90.	3.3	144
7	Antibacterial peptides and proteins with multiple cellular targets. Journal of Peptide Science, 2005, 11, 697-706.	1.4	138
8	Leptin Induces Hypertension and Endothelial Dysfunction via Aldosterone-Dependent Mechanisms in Obese Female Mice. Hypertension, 2016, 67, 1020-1028.	2.7	129
9	Identification of crucial residues for the antibacterial activity of the proline-rich peptide, pyrrhocoricin. FEBS Journal, 2002, 269, 4226-4237.	0.2	112
10	Enlarged Scale Chemical Synthesis and Range of Activity of Drosocin, an O-Glycosylated Antibacterial Peptide of Drosophila. FEBS Journal, 1996, 238, 64-69.	0.2	108
11	Efficacy of a leptin receptor antagonist peptide in a mouse model of triple-negative breast cancer. European Journal of Cancer, 2011, 47, 1578-1584.	2.8	102
12	Peptide-Based Drug Design: Here and Now. Methods in Molecular Biology, 2008, 494, 1-8.	0.9	96
13	The Effect of Selective D- or NÎ±-Methyl Arginine Substitution on the Activity of the Proline-Rich Antimicrobial Peptide, Chex1-Arg20. Frontiers in Chemistry, 2017, 5, 1.	3.6	96
14	Development of novel antibacterial peptides that kill resistant isolates. Peptides, 2002, 23, 2071-2083.	2.4	94
15	Synergy among antibacterial peptides and between peptides and small-molecule antibiotics. Expert Review of Anti-Infective Therapy, 2010, 8, 703-716.	4.4	91
16	Designer Antibacterial Peptides Kill Fluoroquinolone-Resistant Clinical Isolates. Journal of Medicinal Chemistry, 2005, 48, 5349-5359.	6.4	82
17	Conformational Studies by NMR of the Antimicrobial Peptide, Drosocin, and Its Non-Glycosylated Derivative:â€‰ Effects of Glycosylation on Solution Conformation. Biochemistry, 1999, 38, 705-714.	2.5	70
18	Alternative stabilities of a prolineâ€rich antibacterial peptide in vitro and in vivo. Protein Science, 2008, 17, 1249-1255.	7.6	70

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19	Adiponectin is an endogenous anti-fibrotic mediator and therapeutic target. Scientific Reports, 2017, 7, 4397.	3.3	64
20	The designer proline-rich antibacterial peptide A3-APO is effective against systemic Escherichia coli infections in different mouse models. International Journal of Antimicrobial Agents, 2010, 35, 357-361.	2.5	61
21	Broad-spectrum antimicrobial efficacy of peptide A3-APO in mouse models of multidrug-resistant wound and lung infections cannot be explained by in vitro activity against the pathogens involved. International Journal of Antimicrobial Agents, 2011, 37, 480-484.	2.5	58
22	In vitro and in vivo activity of an antibacterial peptide analog against uropathogens. Peptides, 2003, 24, 807-820.	2.4	54
23	Primary Structure and in Vitro Antibacterial Properties of the Drosophila melanogaster Attacin C Pro-domain. Journal of Biological Chemistry, 2004, 279, 14853-14859.	3.4	54
24	Multimerization of a Proline-Rich Antimicrobial Peptide, Chex-Arg20, Alters Its Mechanism of Interaction with the Escherichia coli Membrane. Chemistry and Biology, 2015, 22, 1250-1258.	6.0	53
25	Killer Bee Molecules: Antimicrobial Peptides as Effector Molecules to Target Sporogonic Stages of Plasmodium. PLoS Pathogens, 2013, 9, e1003790.	4.7	52
26	Glioblastoma-derived Leptin Induces Tube Formation and Growth of Endothelial Cells: Comparison with VEGF Effects. BMC Cancer, 2011, 11, 303.	2.6	50
27	Development of a pharmacologically improved peptide agonist of the leptin receptor. Biochimica Et Biophysica Acta - Molecular Cell Research, 2008, 1783, 1745-1754.	4.1	48
28	Scope and limitations of the designer proline-rich antibacterial peptide dimer, A3-APO, alone or in synergy with conventional antibiotics. Peptides, 2008, 29, 1878-1886.	2.4	45
29	Preclinical advantages of intramuscularly administered peptide A3-APO over existing therapies in Acinetobacter baumannii wound infections. Journal of Antimicrobial Chemotherapy, 2010, 65, 2416-2422.	3.0	42
30	Polyvinyl alcohol nanofiber formulation of the designer antimicrobial peptide APO sterilizes Acinetobacter baumannii-infected skin wounds in mice. Amino Acids, 2016, 48, 203-211.	2.7	42
31	Peptideâ€based leptin receptor antagonists for cancer treatment and appetite regulation. Biopolymers, 2011, 96, 117-125.	2.4	41
32	Multidrug Resistance (MDR) and Collateral Sensitivity in Bacteria, with Special Attention to Genetic and Evolutionary Aspects and to the Perspectives of Antimicrobial Peptidesâ€”A Review. Pathogens, 2020, 9, 522.	2.8	39
33	Spectroscopic evidence that monoclonal antibodies recognize the dominant conformation of medium-sized synthetic peptides. Journal of Immunological Methods, 1994, 170, 103-115.	1.4	37
34	Reciprocal Inhibitory Interactions Between the Reward-Related Effects of Leptin and Cocaine. Neuropsychopharmacology, 2016, 41, 1024-1033.	5.4	37
35	Chimeric Antimicrobial Peptides Exhibit Multiple Modes of Action. International Journal of Peptide Research and Therapeutics, 2005, 11, 29-42.	1.9	36
36	Development of second generation peptides modulating cellular adiponectin receptor responses. Frontiers in Chemistry, 2014, 2, 93.	3.6	36

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37	An Insect Antibacterial Peptide-Based Drug Delivery System. Molecular Pharmaceutics, 2004, 1, 220-232.	4.6	35
38	Toward understanding the role of leptin and leptin receptor antagonism in preclinical models of rheumatoid arthritis. Peptides, 2011, 32, 1567-1574.	2.4	35
39	Synergy Between Proline-Rich Antimicrobial Peptides and Small Molecule Antibiotics Against Selected Gram-Negative Pathogens in vitro and in vivo. Frontiers in Chemistry, 2018, 6, 309.	3.6	33
40	Targeting the leptin receptor: a potential new mode of treatment for breast cancer. Expert Review of Anticancer Therapy, 2011, 11, 1147-1150.	2.4	32
41	Therapeutic utility of antibacterial peptides in wound healing. Expert Review of Anti-Infective Therapy, 2015, 13, 871-881.	4.4	32
42	Immunomodulatory effects of anti-microbial peptides. Acta Microbiologica Et Immunologica Hungarica, 2016, 63, 257-277.	0.8	32
43	Membrane interactions of proline-rich antimicrobial peptide, Chex1-Arg20, multimers. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 1236-1243.	2.6	30
44	Câ€Terminal Modification and Multimerization Increase the Efficacy of a Prolineâ€Rich Antimicrobial Peptide. Chemistry - A European Journal, 2017, 23, 390-396.	3.3	28
45	Rapid systemic and local treatments with the antibacterial peptide dimer A3-APO and its monomeric metabolite eliminate bacteria and reduce inflammation in intradermal lesions infected with Propionibacterium acnes and meticillin-resistant Staphylococcus aureus. International Journal of Antimicrobial Agents, 2013, 42, 537-543.	2.5	27
46	Prior Antibacterial Peptide-Mediated Inhibition of Protein Folding in Bacteria Mutes Resistance Enzymes. Antimicrobial Agents and Chemotherapy, 2006, 50, 3146-3149.	3.2	22
47	Intramuscularly administered peptide A3â€APO is effective against carbapenemâ€resistant Acinetobacter baumannii in mouse models of systemic infections. Biopolymers, 2011, 96, 126-129.	2.4	22
48	The designer leptin antagonist peptide Allo-aca compensates for short serum half-life with very tight binding to the receptor. Amino Acids, 2014, 46, 873-882.	2.7	20
49	Optimization of adiponectinâ€derived peptides for inhibition of cancer cell growth and signaling. Biopolymers, 2015, 104, 156-166.	2.4	20
50	Molecular targeting of obesity pathways in cancer. Hormone Molecular Biology and Clinical Investigation, 2015, 22, 53-62.	0.7	19
51	Advantage of a Narrow Spectrum Host Defense (Antimicrobial) Peptide Over a Broad Spectrum Analog in Preclinical Drug Development. Frontiers in Chemistry, 2018, 6, 359.	3.6	19
52	C-Terminal Modifications Broaden Activity of the Proline-Rich Antimicrobial Peptide, Chex1-Arg20. Australian Journal of Chemistry, 2015, 68, 1373.	0.9	17
53	Induced Resistance to the Designer Proline-rich Antimicrobial Peptide A3-APO does not Involve Changes in the Intracellular Target DnaK. International Journal of Peptide Research and Therapeutics, 2009, 15, 121-128.	1.9	15
54	Selective Expression of Epitopes in Multiphosphorylation Repeats of the High and Middle Molecular Weight Neurofilament Proteins in Alzheimer Neurofibrillary Tangles. Annals of Medicine, 1989, 21, 113-116.	3.8	11

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55	Transdermally administered prolineâ€“arginine-rich host defense peptides show systemic efficacy in a lethal mouse bacteremia model. Amino Acids, 2017, 49, 1647-1651.	2.7	11
56	Exploring Leptin Antagonism in Ophthalmic Cell Models. PLoS ONE, 2013, 8, e76437.	2.5	9
57	Leptin Receptor Blockade Attenuates Hypertension, but Does Not Affect Ventilatory Response to Hypoxia in a Model of Polygenic Obesity. Frontiers in Physiology, 2021, 12, 688375.	2.8	9
58	Walking the fine line between intracellular and membrane activities of antibacterial peptides. International Journal of Peptide Research and Therapeutics, 2003, 10, 463-473.	0.1	7
59	Synthesis of a Multivalent, Multiepitope Vaccine Construct. Methods in Molecular Biology, 2008, 494, 263-273.	0.9	7
60	Agonists and Partial Antagonists Acting on the Leptinâ€”Leptin Receptor Interface. Advances in Experimental Medicine and Biology, 2009, 611, 497-498.	1.6	7
61	Host Defense Peptides and Cancer; Perspectives on Research Design and Outcomes. Protein and Peptide Letters, 2018, 24, 879-886.	0.9	7
62	Drug Development-targeted Screening of Leptin Agonist Glycopeptides. International Journal of Peptide Research and Therapeutics, 2008, 14, 247-254.	1.9	6
63	Designer Leptin Receptor Antagonist Allo-aca Inhibits VEGF Effects in Ophthalmic Neoangiogenesis Models. Frontiers in Molecular Biosciences, 2016, 3, 67.	3.5	6
64	Quantitation of a Novel Engineered Anti-infective Host Defense Peptide, ARV-1502: Pharmacokinetic Study of Different Doses in Rats and Dogs. Frontiers in Chemistry, 2019, 7, 753.	3.6	5
65	Influence of Substitutions in the Binding Motif of Proline-Rich Antimicrobial Peptide ARV-1502 on 70S Ribosome Binding and Antimicrobial Activity. International Journal of Molecular Sciences, 2022, 23, 3150.	4.1	5
66	Enzyme-Linked Immunosorbent Assay of Peptides. , 1997, 73, 269-276.		4
67	Racing on the Wrong Track. Frontiers in Chemistry, 2017, 5, 42.	3.6	4
68	Functional Effects of ARV-1502 Analogs Against Bacterial Hsp70 and Implications for Antimicrobial Activity. Frontiers in Chemistry, 2022, 10, 798006.	3.6	4
69	Identification of Adipokine Receptor Agonists and Turning Them to Antagonists. Methods in Molecular Biology, 2013, 1081, 195-209.	0.9	1
70	Designer Multifunctional Antimicrobial Peptides Kill Fluoroquinolone-Resistant Clinical Isolates. , 2006, , 287-288.		0
71	Synergy Between a Lead Proline-rich Antibacterial Peptide Derivative and Small Molecule Antibiotics. Advances in Experimental Medicine and Biology, 2009, 611, 375-378.	1.6	0