# Laszlo Otvos

List of Publications by Year
in descending order



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|---|---|---|---|
| 71 papers | 4,065 citations | 117571 34 h-index | 114418 63 g-index |
| 72 all docs | 72 docs citations | 72 times ranked | 4576 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Functional Effects of ARV-1502 Analogs Against Bacterial Hsp70 and Implications for Antimicrobial Activity. Frontiers in Chemistry, 2022, 10, 798006. | 1.8 | 4 |
| 2 | 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. | 1.8 | 5 |
| 3 | 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. | 1.3 | 9 |
| 4 | 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. | 1.2 | 39 |
| 5 | 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. | 1.8 | 5 |
| 6 | Advantage of a Narrow Spectrum Host Defense (Antimicrobial) Peptide Over a Broad Spectrum Analog in Preclinical Drug Development. Frontiers in Chemistry, 2018, 6, 359. | 1.8 | 19 |
| 7 | 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. | 1.8 | 33 |
| 8 | Host Defense Peptides and Cancer; Perspectives on Research Design and Outcomes. Protein and Peptide Letters, 2018, 24, 879-886. | 0.4 | 7 |
| 9 | Transdermally administered prolineâ€"arginine-rich host defense peptides show systemic efficacy in a lethal mouse bacteremia model. Amino Acids, 2017, 49, 1647-1651. | 1.2 | 11 |
| 10 | Adiponectin is an endogenous anti-fibrotic mediator and therapeutic target. Scientific Reports, 2017, 7, 4397. | 1.6 | 64 |
| 11 | Câ€Terminal Modification and Multimerization Increase the Efficacy of a Prolineâ€Rich Antimicrobial Peptide. Chemistry - A European Journal, 2017, 23, 390-396. | 1.7 | 28 |
| 12 | 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. | 1.8 | 96 |
| 13 | Racing on the Wrong Track. Frontiers in Chemistry, 2017, 5, 42. | 1.8 | 4 |
| 14 | Designer Leptin Receptor Antagonist Allo-aca Inhibits VEGF Effects in Ophthalmic Neoangiogenesis Models. Frontiers in Molecular Biosciences, 2016, 3, 67. | 1.6 | 6 |
| 15 | Immunomodulatory effects of anti-microbial peptides. Acta Microbiologica Et Immunologica Hungarica, 2016, 63, 257-277. | 0.4 | 32 |
| 16 | Membrane interactions of proline-rich antimicrobial peptide, Chex1-Arg20, multimers. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 1236-1243. | 1.4 | 30 |
| 17 | Leptin Induces Hypertension and Endothelial Dysfunction via Aldosterone-Dependent Mechanisms in Obese Female Mice. Hypertension, 2016, 67, 1020-1028. | 1.3 | 129 |
| 18 | Polyvinyl alcohol nanofiber formulation of the designer antimicrobial peptide APO sterilizes Acinetobacter baumannii-infected skin wounds in mice. Amino Acids, 2016, 48, 203-211. | 1.2 | 42 |

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|---|---|---|---|
| 19 | Reciprocal Inhibitory Interactions Between the Reward-Related Effects of Leptin and Cocaine. Neuropsychopharmacology, 2016, 41, 1024-1033. | 2.8 | 37 |
| 20 | Molecular targeting of obesity pathways in cancer. Hormone Molecular Biology and Clinical Investigation, 2015, 22, 53-62. | 0.3 | 19 |
| 21 | Optimization of adiponectinâ€derived peptides for inhibition of cancer cell growth and signaling. Biopolymers, 2015, 104, 156-166. | 1.2 | 20 |
| 22 | Therapeutic utility of antibacterial peptides in wound healing. Expert Review of Anti-Infective Therapy, 2015, 13, 871-881. | 2.0 | 32 |
| 23 | C-Terminal Modifications Broaden Activity of the Proline-Rich Antimicrobial Peptide, Chex1-Arg20. Australian Journal of Chemistry, 2015, 68, 1373. | 0.5 | 17 |
| 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. | 6.2 | 53 |
| 25 | Development of second generation peptides modulating cellular adiponectin receptor responses. Frontiers in Chemistry, 2014, 2, 93. | 1.8 | 36 |
| 26 | 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. | 1.2 | 20 |
| 27 | Proline-rich antimicrobial peptides: potential therapeutics against antibiotic-resistant bacteria. Amino Acids, 2014, 46, 2287-2294. | 1.2 | 158 |
| 28 | Current challenges in peptide-based drug discovery. Frontiers in Chemistry, 2014, 2, 62. | 1.8 | 276 |
| 29 | 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. | 1.1 | 27 |
| 30 | Killer Bee Molecules: Antimicrobial Peptides as Effector Molecules to Target Sporogonic Stages of Plasmodium. PLoS Pathogens, 2013, 9, e1003790. | 2.1 | 52 |
| 31 | Exploring Leptin Antagonism in Ophthalmic Cell Models. PLoS ONE, 2013, 8, e76437. | 1.1 | 9 |
| 32 | Identification of Adipokine Receptor Agonists and Turning Them to Antagonists. Methods in Molecular Biology, 2013, 1081, 195-209. | 0.4 | 1 |
| 33 | 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. | 1.1 | 58 |
| 34 | Efficacy of a leptin receptor antagonist peptide in a mouse model of triple-negative breast cancer. European Journal of Cancer, 2011, 47, 1578-1584. | 1.3 | 102 |
| 35 | Toward understanding the role of leptin and leptin receptor antagonism in preclinical models of rheumatoid arthritis. Peptides, 2011, 32, 1567-1574. | 1.2 | 35 |
| 36 | Glioblastoma-derived Leptin Induces Tube Formation and Growth of Endothelial Cells: Comparison with VEGF Effects. BMC Cancer, 2011, 11, 303. | 1.1 | 50 |

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| 37 | Design and development of a peptide-based adiponectin receptor agonist for cancer treatment. BMC Biotechnology, 2011, 11, 90. | 1.7 | 144 |
| 38 | Peptideâ€based leptin receptor antagonists for cancer treatment and appetite regulation. Biopolymers, 2011, 96, 117-125. | 1.2 | 41 |
| 39 | Intramuscularly administered peptide A3â€APO is effective against carbapenemâ€resistant Acinetobacter baumannii in mouse models of systemic infections. Biopolymers, 2011, 96, 126-129. | 1.2 | 22 |
| 40 | Targeting the leptin receptor: a potential new mode of treatment for breast cancer. Expert Review of Anticancer Therapy, 2011, 11, 1147-1150. | 1.1 | 32 |
| 41 | Synergy among antibacterial peptides and between peptides and small-molecule antibiotics. Expert Review of Anti-Infective Therapy, 2010, 8, 703-716. | 2.0 | 91 |
| 42 | Preclinical advantages of intramuscularly administered peptide A3-APO over existing therapies in Acinetobacter baumannii wound infections. Journal of Antimicrobial Chemotherapy, 2010, 65, 2416-2422. | 1.3 | 42 |
| 43 | 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. | 1.1 | 61 |
| 44 | Synergy Between a Lead Proline-rich Antibacterial Peptide Derivative and Small Molecule Antibiotics. Advances in Experimental Medicine and Biology, 2009, 611, 375-378. | 0.8 | 0 |
| 45 | 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. | 0.9 | 15 |
| 46 | Agonists and Partial Antagonists Acting on the Leptinâ€”Leptin Receptor Interface. Advances in Experimental Medicine and Biology, 2009, 611, 497-498. | 0.8 | 7 |
| 47 | Drug Development-targeted Screening of Leptin Agonist Glycopeptides. International Journal of Peptide Research and Therapeutics, 2008, 14, 247-254. | 0.9 | 6 |
| 48 | Alternative stabilities of a prolineâ€rich antibacterial peptide in vitro and in vivo. Protein Science, 2008, 17, 1249-1255. | 3.1 | 70 |
| 49 | Development of a pharmacologically improved peptide agonist of the leptin receptor. Biochimica Et Biophysica Acta - Molecular Cell Research, 2008, 1783, 1745-1754. | 1.9 | 48 |
| 50 | Synthesis of a Multivalent, Multiepitope Vaccine Construct. Methods in Molecular Biology, 2008, 494, 263-273. | 0.4 | 7 |
| 51 | Peptide-Based Drug Design: Here and Now. Methods in Molecular Biology, 2008, 494, 1-8. | 0.4 | 96 |
| 52 | 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. | 1.2 | 45 |
| 53 | Designer Multifunctional Antimicrobial Peptides Kill Fluoroquinolone-Resistant Clinical Isolates. , 2006, , 287-288. | | 0 |
| 54 | Prior Antibacterial Peptide-Mediated Inhibition of Protein Folding in Bacteria Mutes Resistance Enzymes. Antimicrobial Agents and Chemotherapy, 2006, 50, 3146-3149. | 1.4 | 22 |

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| 55 | Chimeric Antimicrobial Peptides Exhibit Multiple Modes of Action. International Journal of Peptide Research and Therapeutics, 2005, 11, 29-42. | 0.9 | 36 |
| 56 | Antibacterial peptides and proteins with multiple cellular targets. Journal of Peptide Science, 2005, 11, 697-706. | 0.8 | 138 |
| 57 | Designer Antibacterial Peptides Kill Fluoroquinolone-Resistant Clinical Isolates. Journal of Medicinal Chemistry, 2005, 48, 5349-5359. | 2.9 | 82 |
| 58 | Primary Structure and in Vitro Antibacterial Properties of the Drosophila melanogaster Attacin C Pro-domain. Journal of Biological Chemistry, 2004, 279, 14853-14859. | 1.6 | 54 |
| 59 | An Insect Antibacterial Peptide-Based Drug Delivery System. Molecular Pharmaceutics, 2004, 1, 220-232. | 2.3 | 35 |
| 60 | 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 |
| 61 | In vitro and in vivo activity of an antibacterial peptide analog against uropathogens. Peptides, 2003, 24, 807-820. | 1.2 | 54 |
| 62 | Development of novel antibacterial peptides that kill resistant isolates. Peptides, 2002, 23, 2071-2083. | 1.2 | 94 |
| 63 | Identification of crucial residues for the antibacterial activity of the proline-rich peptide, pyrrhocoricin. FEBS Journal, 2002, 269, 4226-4237. | 0.2 | 112 |
| 64 | The Antibacterial Peptide Pyrrhocoricin Inhibits the ATPase Actions of DnaK and Prevents Chaperone-Assisted Protein Folding. Biochemistry, 2001, 40, 3016-3026. | 1.2 | 433 |
| 65 | Interaction between Heat Shock Proteins and Antimicrobial Peptidesâ€. Biochemistry, 2000, 39, 14150-14159. | 1.2 | 322 |
| 66 | 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. | 1.2 | 70 |
| 67 | Enzyme-Linked Immunosorbent Assay of Peptides. , 1997, 73, 269-276. | | 4 |
| 68 | Unique Alzheimer's Disease Paired Helical Filament Specific Epitopes Involve Double Phosphorylation at Specific Sites. Biochemistry, 1997, 36, 8114-8124. | 1.2 | 154 |
| 69 | 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 |
| 70 | Spectroscopic evidence that monoclonal antibodies recognize the dominant conformation of medium-sized synthetic peptides. Journal of Immunological Methods, 1994, 170, 103-115. | 0.6 | 37 |
| 71 | 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. | 1.5 | 11 |