Robert I Lehrer

List of Publications by Year
in descending order

141	20,472	7568	11939
papers	citations	77 h-index	134 g-index

143	143	143	11949
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Is there a single porcine protegrin gene?. FEBS Journal, 2014, 281, 5418-5419.	4.7	0
2	Evolution of Antimicrobial Peptides: A View from the Cystine Chapel. , 2013, , 1-27.		6
3	Î¸-Defensins: Cyclic Peptides with Endless Potential. Journal of Biological Chemistry, 2012, 287, 27014-27019.	3.4	127
4	Sometimes It Takes Two to Tango. Journal of Biological Chemistry, 2012, 287, 8944-8953.	3.4	45
5	Hapivirins and Diprovirins: Novel Î¸-Defensin Analogs with Potent Activity against Influenza A Virus. Journal of Immunology, 2012, 188, 2759-2768.	0.8	39
6	Human Î±-Defensin 6 Promotes Mucosal Innate Immunity Through Self-Assembled Peptide Nanonets. Science, 2012, 337, 477-481.	12.6	337
7	Î±â€Defensins in human innate immunity. Immunological Reviews, 2012, 245, 84-112.	6.0	359
8	Defensins enable macrophages to inhibit the intracellular proliferation of Listeria monocytogenes. Cellular Microbiology, 2011, 13, 635-651.	2.1	68
9	Peptide gets in shape for self-defence. Nature, 2011, 469, 309-310.	27.8	16
10	Simplified Î¸-Defensins: Search for New Antivirals. International Journal of Peptide Research and Therapeutics, 2011, 17, 325-336.	1.9	7
11	De novo sequencing of two new cyclic Î¸â€defensins from baboon (Papio hamadryas) leukocytes by matrixâ€assisted laser desorption/ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2010, 24, 599-604.	1.5	19
12	Trp-26 Imparts Functional Versatility to Human Î±-Defensin HNP1. Journal of Biological Chemistry, 2010, 285, 16275-16285.	3.4	54
13	Antimicrobial mechanism of pore-forming protegrin peptides: 100 pores to kill E. coli. Peptides, 2010, 31, 1-8.	2.4	77
14	Through the Looking Glass, Mechanistic Insights from Enantiomeric Human Defensins. Journal of Biological Chemistry, 2009, 284, 29180-29192.	3.4	103
15	Human Î±-Defensins Inhibit Hemolysis Mediated by Cholesterol-Dependent Cytolysins. Infection and Immunity, 2009, 77, 4028-4040.	2.2	54
16	ChBac3.4: A Novel Proline-Rich Antimicrobial Peptide from Goat Leukocytes. International Journal of Peptide Research and Therapeutics, 2009, 15, 31-42.	1.9	26
17	Dual Mechanism of Bacterial Lethality for a Cationic Sequence-Random Copolymer that Mimics Host-Defense Antimicrobial Peptides. Journal of Molecular Biology, 2008, 379, 38-50.	4.2	158
18	Correlation between simulated physicochemical properties and hemolycity of protegrin-like antimicrobial peptides: Predicting experimental toxicity. Peptides, 2008, 29, 1085-1093.	2.4	42

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19	Î±â€Defensin Inhibits Influenza Virus Replication by Cellâ€Mediated Mechanism(s). Journal of Infectious Diseases, 2007, 196, 835-843.	4.0	135
20	Multispecific myeloid defensins. Current Opinion in Hematology, 2007, 14, 16-21.	2.5	90
21	The innate immune system: a repository for future drugs?. Expert Review of Anti-Infective Therapy, 2007, 5, 1-5.	4.4	13
22	Avian beta-defensin nomenclature: A community proposed update. Immunology Letters, 2007, 110, 86-89.	2.5	138
23	Retrocyclin RCâ€101 overcomes cationic mutations on the heptad repeatâ€ƒ2 region of HIVâ€1 gp41. FEBS Journal, 2007, 274, 6477-6487.	4.7	17
24	Membrane-dependent oligomeric structure and pore formation of a beta-hairpin antimicrobial peptide in lipid bilayers from solid-state NMR. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16242-16247.	7.1	228
25	Orientation of a Î²-Hairpin Antimicrobial Peptide in Lipid Bilayers from Two-Dimensional Dipolar Chemical-Shift Correlation NMR. Biophysical Journal, 2006, 90, 3616-3624.	0.5	30
26	Mechanism of Supported Membrane Disruption by Antimicrobial Peptide Protegrin-1. Journal of Physical Chemistry B, 2006, 110, 21282-21286.	2.6	46
27	Insertion selectivity of antimicrobial peptide protegrin-1 into lipid monolayers: Effect of head group electrostatics and tail group packing. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 1450-1460.	2.6	80
28	HIV-1 Adapts to a Retrocyclin with Cationic Amino Acid Substitutions That Reduce Fusion Efficiency of gp41. Journal of Immunology, 2006, 176, 6900-6905.	0.8	45
29	Human Î±- and Î²-Defensins Block Multiple Steps in Herpes Simplex Virus Infection. Journal of Immunology, 2006, 177, 8658-8666.	0.8	236
30	Î¸-Defensins Prevent HIV-1 Env-mediated Fusion by Binding gp41 and Blocking 6-Helix Bundle Formation. Journal of Biological Chemistry, 2006, 281, 18787-18792.	3.4	125
31	Retrocyclins Kill Bacilli and Germinating Spores of Bacillus anthracis and Inactivate Anthrax Lethal Toxin. Journal of Biological Chemistry, 2006, 281, 32755-32764.	3.4	79
32	Carbohydrate-binding molecules inhibit viral fusion and entry by crosslinking membrane glycoproteins. Nature Immunology, 2005, 6, 995-1001.	14.5	235
33	Plectasin is a peptide antibiotic with therapeutic potential from a saprophytic fungus. Nature, 2005, 437, 975-980.	27.8	557
34	In Defense of Skin. Journal of Investigative Dermatology, 2005, 125, viii-ix.	0.7	8
35	Headgroup structure and fatty acid chain length of the acidic phospholipids modulate the interaction of membrane mimetic vesicles with the antimicrobial peptide protegrin-1. Journal of Peptide Science, 2005, 11, 735-743.	1.4	26
36	Defensins and Other Antimicrobial Peptides and Proteins. , 2005, , 95-110.		18

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37	Antibacterial Activity and Specificity of the Six Human Î±-Defensins. Antimicrobial Agents and Chemotherapy, 2005, 49, 269-275.	3.2	297
38	Membrane-disruptive abilities of Î²-hairpin antimicrobial peptides correlate with conformation and activity: A 31P and 1H NMR study. Biochimica Et Biophysica Acta - Biomembranes, 2005, 1716, 11-18.	2.6	57
39	Human neutrophil Î±â€defensin 4 inhibits HIVâ€1 infection in vitro. FEBS Letters, 2005, 579, 162-166.	2.8	86
40	RC-101, a Retrocyclin-1 Analogue with Enhanced Activity against Primary HIV Type 1 Isolates. AIDS Research and Human Retroviruses, 2004, 20, 1157-1165.	1.1	97
41	Î¸ Defensins Protect Cells from Infection by Herpes Simplex Virus by Inhibiting Viral Adhesion and Entry. Journal of Virology, 2004, 78, 5147-5156.	3.4	241
42	Primate defensins. Nature Reviews Microbiology, 2004, 2, 727-738.	28.6	466
43	Activity of Î±- and Î¸-Defensins against Primary Isolates of HIV-1. Journal of Immunology, 2004, 173, 515-520.	0.8	193
44	Solid-State NMR Investigation of the Selective Perturbation of Lipid Bilayers by the Cyclic Antimicrobial Peptide RTD-1â€. Biochemistry, 2004, 43, 9800-9812.	2.5	58
45	Solid-State NMR Investigation of the Selective Disruption of Lipid Membranes by Protegrin-1â€. Biochemistry, 2004, 43, 13839-13848.	2.5	68
46	Supported lipid bilayers lifted from the substrate by layer-by-layer polyion cushions on self-assembled monolayers. Colloids and Surfaces B: Biointerfaces, 2003, 28, 319-329.	5.0	43
47	Immobilization and Aggregation of the Antimicrobial Peptide Protegrin-1 in Lipid Bilayers Investigated by Solid-State NMR. Biochemistry, 2003, 42, 13725-13734.	2.5	82
48	Evolution of primate Î¸-defensins: a serpentine path to a sweet tooth. Peptides, 2003, 24, 1647-1654.	2.4	182
49	Susceptibility of Treponema pallidum to host-derived antimicrobial peptides. Peptides, 2003, 24, 1741-1746.	2.4	29
50	Solid-State NMR Investigation of the Depth of Insertion of Protegrin-1 in Lipid Bilayers Using Paramagnetic Mn2+. Biophysical Journal, 2003, 85, 2363-2373.	0.5	126
51	Retrocyclin, an Antiretroviral Î¸-Defensin, Is a Lectin. Journal of Immunology, 2003, 170, 4708-4716.	0.8	187
52	NP-1, a Rabbit Î±-Defensin, Prevents the Entry and Intercellular Spread of Herpes Simplex Virus Type 2. Antimicrobial Agents and Chemotherapy, 2003, 47, 494-500.	3.2	113
53	Plicatamide, an Antimicrobial Octapeptide from Styela plicata Hemocytes. Journal of Biological Chemistry, 2003, 278, 13546-13553.	3.4	81
54	The Î¸-Defensin, Retrocyclin, Inhibits HIV-1 Entry. AIDS Research and Human Retroviruses, 2003, 19, 875-881.	1.1	138

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55	Interaction of antimicrobial peptide protegrin with biomembranes. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 6302-6307.	7.1	201
56	Minidefensins: Antimicrobial Peptides with Activity Against HIV-1. Current Pharmaceutical Design, 2003, 9, 1463-1473.	1.9	51
57	Activity of Novispirin G10 against Pseudomonas aeruginosa In Vitro and in Infected Burns. Antimicrobial Agents and Chemotherapy, 2002, 46, 1837-1844.	3.2	94
58	Retrocyclin: A primate peptide that protects cells from infection by T- and M-tropic strains of HIV-1. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 1813-1818.	7.1	287
59	Impact of single-residue mutations on the structure and function of ovispirin/novispirin antimicrobial peptides. Protein Engineering, Design and Selection, 2002, 15, 225-232.	2.1	82
60	Cathelicidins: a family of endogenous antimicrobial peptides. Current Opinion in Hematology, 2002, 9, 18-22.	2.5	281
61	Examination of Chlamydia trachomatis Infection in Environments Mimicking Normal and Abnormal Vaginal pH. Sexually Transmitted Diseases, 2002, 29, 514-519.	1.7	16
62	Two States of Cyclic Antimicrobial Peptide RTD-1 in Lipid Bilayers. Biochemistry, 2002, 41, 10070-10076.	2.5	47
63	Electrochemical and Surface Properties of Solid-Supported, Mobile Phospholipid Bilayers on a Polyion/Alkylthiol Layer Pair Used for Detection of Antimicrobial Peptide Insertion. Langmuir, 2002, 18, 1318-1331.	3.5	40
64	Solid-State NMR Investigations of Peptideâ^'Lipid Interaction and Orientation of a Î²-Sheet Antimicrobial Peptide, Protegrinâ€. Biochemistry, 2002, 41, 9852-9862.	2.5	158
65	Binding of protegrin-1 to Pseudomonas aeruginosa and Burkholderia cepacia. Respiratory Research, 2002, 3, 18.	3.6	30
66	Potassium release, a useful tool for studying antimicrobial peptides. Journal of Microbiological Methods, 2002, 49, 325-328.	1.6	87
67	SMAPâ€29 has two LPSâ€binding sites and a central hinge. FEBS Journal, 2002, 269, 1181-1189.	0.2	100
68	Phospholipid bilayers on a polyion-alkylthiol layer pair: microprobe imaging, electrochemical properties and peptide association. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2002, 96, 199-208.	3.5	7
69	Defensins of vertebrate animals. Current Opinion in Immunology, 2002, 14, 96-102.	5.5	630
70	Dicynthaurin: an antimicrobial peptide from hemocytes of the solitary tunicate, Halocynthia aurantium. Biochimica Et Biophysica Acta - General Subjects, 2001, 1527, 141-148.	2.4	79
71	Shigellae control the Gates of LL. Nature Medicine, 2001, 7, 158-159.	30.7	2
72	RL-37, an Alpha-Helical Antimicrobial Peptide of the Rhesus Monkey. Antimicrobial Agents and Chemotherapy, 2001, 45, 2695-2702.	3.2	52

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73	Gallinacin-3, an Inducible Epithelial Î²-Defensin in the Chicken. Infection and Immunity, 2001, 69, 2684-2691.	2.2	147
74	Clavanins and Styelins, Î±-Helical Antimicrobial Peptides from The Hemocytes of Styela clava. Advances in Experimental Medicine and Biology, 2001, 484, 71-76.	1.6	19
75	Engineered Salt-insensitive Î±-Defensins with End-to-end Circularized Structures. Journal of Biological Chemistry, 2000, 275, 3943-3949.	3.4	58
76	Bactericidal Activity of Mammalian Cathelicidin-Derived Peptides. Infection and Immunity, 2000, 68, 2748-2755.	2.2	350
77	Crystallization of Antimicrobial Pores in Membranes: Magainin and Protegrin. Biophysical Journal, 2000, 79, 2002-2009.	0.5	367
78	Protegrins: new antibiotics of mammalian origin. Expert Opinion on Investigational Drugs, 2000, 9, 1731-1742.	4.1	84
79	Membrane Thinning Effect of the Î²-Sheet Antimicrobial Protegrin. Biochemistry, 2000, 39, 139-145.	2.5	185
80	Secretory Lipophilins: A Tale of Two Species. Annals of the New York Academy of Sciences, 2000, 923, 59-67.	3.8	20
81	Antimicrobial peptides in mammalian and insect host defence. Current Opinion in Immunology, 1999, 11, 23-27.	5.5	935
82	Contributory presentations/posters. Journal of Biosciences, 1999, 24, 33-198.	1.1	0
83	Membrane channel formation by antimicrobial protegrins. Biochimica Et Biophysica Acta - Biomembranes, 1999, 1420, 23-29.	2.6	103
84	Differential Expression of Caprine Î²-Defensins in Digestive and Respiratory Tissues. Infection and Immunity, 1999, 67, 6221-6224.	2.2	43
85	Purification and Properties of Proline-Rich Antimicrobial Peptides from Sheep and Goat Leukocytes. Infection and Immunity, 1999, 67, 4106-4111.	2.2	101
86	Antimicrobial peptides of vertebrates. Current Opinion in Immunology, 1998, 10, 41-44.	5.5	353
87	Lipophilin, a novel heterodimeric protein of human tears. FEBS Letters, 1998, 432, 163-167.	2.8	58
88	Î²-sheet antibiotic peptides as potential dental therapeutics1Presented in part at the symposium â€˜Impact of bacterial antibiotic resistance: What is the relevanceâ€™, University of Washington, Seattle, Sep 5â€“6, 19961. International Journal of Antimicrobial Agents, 1998, 9, 269-280.	2.5	58
89	Multiple States of Î²-Sheet Peptide Protegrin in Lipid Bilayersâ€. Biochemistry, 1998, 37, 17331-17338.	2.5	131
90	Haemophilus ducreyi Is Susceptible to Protegrin. Antimicrobial Agents and Chemotherapy, 1998, 42, 2690-2693.	3.2	18

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91	Activities of LL-37, a Cathelin-Associated Antimicrobial Peptide of Human Neutrophils. Antimicrobial Agents and Chemotherapy, 1998, 42, 2206-2214.	3.2	989
92	Killing of Fusobacterium nucleaturn, Porphyromonas gingivalis and Prevotella intermedia by protegrins. Journal of Periodontal Research, 1998, 33, 91-98.	2.7	33
93	Activity of Protegrins against Yeast-Phase Candida albicans. Infection and Immunity, 1998, 66, 2486-2493.	2.2	63
94	Antimicrobial peptides of leukocytes. Current Opinion in Hematology, 1997, 4, 53-58.	2.5	157
95	Differential Scanning Microcalorimetry Indicates That Human Defensin, HNP-2, Interacts Specifically with Biomembrane Mimetic Systems,. Biochemistry, 1997, 36, 1525-1531.	2.5	103
96	Designer Assays for Antimicrobial Peptides Disputing the "One-Size-Fits-All" Theory. , 1997, 78, 169-186.		122
97	Clavanins, Î±-helical antimicrobial peptides from tunicate hemocytes. FEBS Letters, 1997, 400, 158-162.	2.8	150
98	cDNA cloning of Clavanins: antimicrobial peptides of tunicate hemocytes. FEBS Letters, 1997, 410, 490-492.	2.8	35
99	cDNA cloning of three cecropin-like antimicrobial peptides (Styelins) from the tunicate,Styela clava. FEBS Letters, 1997, 412, 144-148.	2.8	63
100	Styelins, Broad-Spectrum Antimicrobial Peptides from the Solitary Tunicate, Styela clava. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1997, 118, 515-521.	1.6	84
101	Endogenous Vertebrate Antibiotics.. Annals of the New York Academy of Sciences, 1996, 797, 228-239.	3.8	130
102	Widespread expression of beta-defensin hBD-1 in human secretory glands and epithelial cells. FEBS Letters, 1996, 396, 319-322.	2.8	508
103	Intramolecular Disulfide Bonds Enhance the Antimicrobial and Lytic Activities of Protegrins at Physiological Sodium Chloride Concentrations. FEBS Journal, 1996, 240, 352-357.	0.2	134
104	Solution structure of protegrin-1, a broad-spectrum antimicrobial peptide from porcine leukocytes. Chemistry and Biology, 1996, 3, 543-550.	6.0	238
105	Determination of disulphide bridges in PG-2, an antimicrobial peptide from porcine leukocytes. Journal of Peptide Science, 1995, 1, 207-215.	1.4	54
106	Prophenin-1, an exceptionally proline-rich antimicrobial peptide from porcine leukocytes. FEBS Letters, 1995, 362, 65-69.	2.8	89
107	The structure of porcine protegrin genes. FEBS Letters, 1995, 368, 197-202.	2.8	85
108	Structures of genes for two cathelin-associated antimicrobial peptides: prophenin-2 and PR-39. FEBS Letters, 1995, 376, 130-134.	2.8	70

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109	Cryptdins: Endogenous Antibiotic Peptides of Small Intestinal Paneth Cells. Advances in Experimental Medicine and Biology, 1995, 371A, 251-255.	1.6	24
110	Defensins. Current Opinion in Immunology, 1994, 6, 584-589.	5.5	376
111	Gallinacins: cysteineâ€rich antimicrobial peptides of chicken leukocytes. FEBS Letters, 1994, 342, 281-285.	2.8	201
112	Neutrophil defensins: Purification, characterization, and antimicrobial testing. Methods in Enzymology, 1994, 236, 160-172.	1.0	122
113	Primary Structure of Gallinacin-1, an Antimicrobial Î²-Defensin from Chicken Leukocytes. Techniques in Protein Chemistry, 1994, 5, 81-88.	0.3	6
114	Protegrins: leukocyte antimicrobial peptides that combine features of corticostatic defensins and tachyplesins. FEBS Letters, 1993, 327, 231-236.	2.8	474
115	Introduction to Candida. Infectious Agents and Pathogenesis, 1993, , 49-116.	0.1	14
116	Defensins: Endogenous Antibiotic Peptides from Human Leukocytes. Novartis Foundation Symposium, 1992, 171, 276-304.	1.1	30
117	Defensins: Endogenous antibiotic peptides of animal cells. Cell, 1991, 64, 229-230.	28.9	365
118	Ultrasensitive assays for endogenous antimicrobial polypeptides. Journal of Immunological Methods, 1991, 137, 167-173.	1.4	640
119	Defensins. European Journal of Haematology, 1990, 44, 1-8.	2.2	282
120	Concurrent assessment of inner and outer membrane permeabilization and bacteriolysis in E. coli by multiple-wavelength spectrophotometry. Journal of Immunological Methods, 1988, 108, 153-158.	1.4	210
121	Opsonic activity of MCP-1 and MCP-2, cationic peptides from rabbit alveolar macrophages. Diagnostic Microbiology and Infectious Disease, 1985, 3, 233-242.	1.8	55
122	Assessment of chlorination by human neutrophils. Nature, 1983, 301, 715-716.	27.8	288
123	INGESTION AND DESTRUCTION OF Candida albicans. , 1981, , 693-708.		17
124	Fungicidal Components of Mammalian Granulocytes Active against Cryptococcus neoformans. Journal of Infectious Diseases, 1977, 136, 96-99.	4.0	26
125	A simple microscopic method for identifying and quantitating phagocytic cells in vitro. Journal of Immunological Methods, 1977, 18, 377-379.	1.4	43
126	Nonoxidative Fungicidal Mechanisms of Mammalian Granulocytes: Demonstration of Components with Candidacidal Activity in Human, Rabbit, and Guinea Pig Leukocytes. Infection and Immunity, 1975, 11, 1226-1234.	2.2	152

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127	Functional Aspects of a Second Mechanism of Candidacidal Activity by Human Neutrophils. Journal of Clinical Investigation, 1972, 51, 2566-2572.	8.2	125
128	Leukocyte candidacidal activity and resistance to systemic candidiasis in patients with cancer. Cancer, 1971, 27, 1211-1217.	4.1	89
129	Measurement of Candidacidal Activity of Specific Leukocyte Types in Mixed Cell Populations II. Normal and Chronic Granulomatous Disease Eosinophils. Infection and Immunity, 1971, 3, 800-802.	2.2	36
130	Cyclic 3â€²,5â€²-adenosine monophosphate in the human leukocyte: synthesis, degradation, and effects on neutrophil candidacidal activity. Journal of Clinical Investigation, 1971, 50, 920-929.	8.2	163
131	Inhibition by sulfonamides of the candidacidal activity of human neutrophils. Journal of Clinical Investigation, 1971, 50, 2498-2505.	8.2	94
132	Myeloperoxidase Deficiency. New England Journal of Medicine, 1970, 282, 250-253.	27.0	144
133	Interaction of Aspergillus fumigatus Spores with Human Leukocytes and Serum. Infection and Immunity, 1970, 1, 345-350.	2.2	76
134	Measurement of Candidacidal Activity of Specific Leukocyte Types in Mixed Cell Populations I. Normal, Myeloperoxidase-Deficient, and Chronic Granulomatous Disease Neutrophils. Infection and Immunity, 1970, 2, 42-47.	2.2	170
135	Defective Bactericidal Activity in Myeloperoxidase-deficient Human Neutrophils. Nature, 1969, 223, 78-79.	27.8	126
136	Interaction ofCandida albicanswith Human Leukocytes and Serum. Journal of Bacteriology, 1969, 98, 996-1004.	2.2	565
137	Leukocyte myeloperoxidase deficiency and disseminated candidiasis: the role of myeloperoxidase in resistance to Candida infection. Journal of Clinical Investigation, 1969, 48, 1478-1488.	8.2	702
138	Phagocytosis by Human Monocytes. Blood, 1968, 32, 423-435.	1.4	191
139	Phagocytosis by Human Eosinophils. Blood, 1968, 32, 922-934.	1.4	85
140	Defensins and Cathelicidins: Antimicrobial Peptide Effectors of Mammalian Innate Immunity. , 0, , 105-110.		0
141	Antimicrobial Proteins. , 0, , 345-356.		0