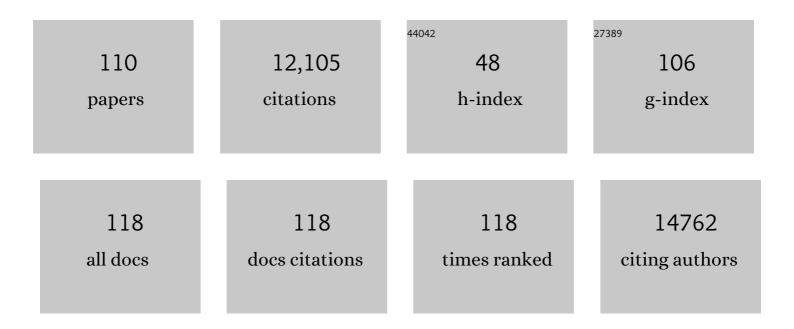
Laurence G Rahme

List of Publications by Year in descending order

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LAUDENCE C. RAHME

#	Article	IF	CITATIONS
1	Structural, mechanistic, and physiological insights into phospholipase A-mediated membrane phospholipid degradation in Pseudomonas aeruginosa. ELife, 2022, 11, .	2.8	13
2	Proteobacteria and Firmicutes Secreted Factors Exert Distinct Effects on Pseudomonas aeruginosa Infection under Normoxia or Mild Hypoxia. Metabolites, 2022, 12, 449.	1.3	5
3	Characterization of antibiotic resistance profiles in Pseudomonas aeruginosa isolates from burn patients. Burns, 2021, 47, 1833-1843.	1.1	4
4	Antimicrobial Peptide Dendrimers and Quorum-Sensing Inhibitors in Formulating Next-Generation Anti-Infection Cell Therapy Dressings for Burns. Molecules, 2021, 26, 3839.	1.7	4
5	The Role of Common Solvents against Pseudomonas aeruginosa-Induced Pathogenicity in a Murine Burn Site Infection Model. Microbiology Spectrum, 2021, 9, e0023321.	1.2	5
6	Multi-Biomarker Prediction Models for Multiple Infection Episodes Following Blunt Trauma. IScience, 2020, 23, 101659.	1.9	7
7	Denver and Marshall scores successfully predict susceptibility to multiple independent infections in trauma patients. PLoS ONE, 2020, 15, e0232175.	1.1	3
8	Intestinal alkaline phosphatase targets the gut barrier to prevent aging. JCI Insight, 2020, 5, .	2.3	66
9	Targeting the gut to prevent sepsis from a cutaneous burn. JCI Insight, 2020, 5, .	2.3	19
10	Editorial: Beyond Antimicrobials: Non-traditional Approaches to Combating Multidrug-Resistant Bacteria. Frontiers in Cellular and Infection Microbiology, 2019, 9, 343.	1.8	13
11	Associations between clinical characteristics and the development of multiple organ failure after severe burns in adult patients. Burns, 2019, 45, 1775-1782.	1.1	5
12	Targeting bacterial quorum sensing shows promise in improving intestinal barrier function following burn‑site infection. Molecular Medicine Reports, 2019, 19, 4057-4066.	1.1	12
13	Pseudomonas aeruginosa Quorum Sensing Molecule Alters Skeletal Muscle Protein Homeostasis by Perturbing the Antioxidant Defense System. MBio, 2019, 10, .	1.8	11
14	Magnetization transfer contrast MRI in GFP‑tagged live bacteria. Molecular Medicine Reports, 2019, 19, 617-621.	1.1	0
15	Molecular Insights into Function and Competitive Inhibition of <i>Pseudomonas aeruginosa</i> Multiple Virulence Factor Regulator. MBio, 2018, 9, .	1.8	53
16	Animal Models for Pseudomonas aeruginosa Quorum Sensing Studies. Methods in Molecular Biology, 2018, 1673, 227-241.	0.4	15
17	Portal System as the Source of Inflammation in an Acute Systemic Burn. Journal of the American College of Surgeons, 2018, 227, S271.	0.2	0
18	Effects of a small, volatile bacterial molecule on Pseudomonas aeruginosa bacteria using whole cell high-resolution magic angle spinning nuclear magnetic resonance spectroscopy and genomics. International Journal of Molecular Medicine, 2018, 42, 2129-2136.	1.8	8

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19	952 - The Gut-Liver Axis: Probing the Portal System as the Source of Inflammation in Acute and Chronic Diseases. Gastroenterology, 2018, 154, S-1295.	0.6	0
20	Bioanalysis of Pseudomonas aeruginosa alkyl quinolone signalling molecules in infected mouse tissue using LC–MS/MS; and its application to a pharmacodynamic evaluation of MvfR inhibition. Journal of Pharmaceutical and Biomedical Analysis, 2017, 139, 44-53.	1.4	12
21	<i>Pseudomonas aeruginosa</i> Alginate Overproduction Promotes Coexistence with <i>Staphylococcus aureus</i> in a Model of Cystic Fibrosis Respiratory Infection. MBio, 2017, 8, .	1.8	124
22	Polypharmacology Approaches against the <i>Pseudomonas aeruginosa</i> MvfR Regulon and Their Application in Blocking Virulence and Antibiotic Tolerance. ACS Chemical Biology, 2017, 12, 1435-1443.	1.6	36
23	Pharmacological Inhibition of the Pseudomonas aeruginosa MvfR Quorum-Sensing System Interferes with Biofilm Formation and Potentiates Antibiotic-Mediated Biofilm Disruption. Antimicrobial Agents and Chemotherapy, 2017, 61, .	1.4	65
24	In-depth Profiling of MvfR-Regulated Small Molecules in Pseudomonas aeruginosa after Quorum Sensing Inhibitor Treatment. Frontiers in Microbiology, 2017, 8, 924.	1.5	49
25	NF-κBp50 and HDAC1 Interaction Is Implicated in the Host Tolerance to Infection Mediated by the Bacterial Quorum Sensing Signal 2-Aminoacetophenone. Frontiers in Microbiology, 2017, 8, 1211.	1.5	15
26	TNF-α/IL-10 Ratio Correlates with Burn Severity and May Serve as a Risk Predictor of Increased Susceptibility to Infections. Frontiers in Public Health, 2016, 4, 216.	1.3	39
27	In vivo high-resolution magic angle spinning magnetic and electron paramagnetic resonance spectroscopic analysis of mitochondria-targeted peptide in Drosophila melanogaster with trauma-induced thoracic injury. International Journal of Molecular Medicine, 2016, 37, 299-308.	1.8	8
28	Designed Small-Molecule Inhibitors of the Anthranilyl-CoA Synthetase PqsA Block Quinolone Biosynthesis in <i>Pseudomonas aeruginosa</i> . ACS Chemical Biology, 2016, 11, 3061-3067.	1.6	41
29	Bacterial-excreted small volatile molecule 2-aminoacetophenone induces oxidative stress and apoptosis in murine skeletal muscle. International Journal of Molecular Medicine, 2016, 37, 867-878.	1.8	16
30	Evidence for Direct Control of Virulence and Defense Gene Circuits by the Pseudomonas aeruginosa Quorum Sensing Regulator, MvfR. Scientific Reports, 2016, 6, 34083.	1.6	95
31	A quorum-sensing signal promotes host tolerance training through HDAC1-mediated epigenetic reprogramming. Nature Microbiology, 2016, 1, 16174.	5.9	56
32	Considerations and caveats in anti-virulence drug development. Current Opinion in Microbiology, 2016, 33, 41-46.	2.3	128
33	Auto Poisoning of the Respiratory Chain by a Quorum-Sensing-Regulated Molecule Favors Biofilm Formation and Antibiotic Tolerance. Current Biology, 2016, 26, 195-206.	1.8	148
34	Prediction of Multiple Infections After Severe Burn Trauma. Annals of Surgery, 2015, 261, 781-792.	2.1	33
35	Do standard burn mortality formulae work on a population of severely burned children and adults?. Burns, 2015, 41, 935-945.	1.1	31
36	Identification of Anti-virulence Compounds That Disrupt Quorum-Sensing Regulated Acute and Persistent Pathogenicity. PLoS Pathogens, 2014, 10, e1004321.	2.1	238

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37	In vivo high-resolution magic angle spinning proton NMR spectroscopy of Drosophila melanogaster flies as a model system to investigate mitochondrial dysfunction in Drosophila GST2 mutants. International Journal of Molecular Medicine, 2014, 34, 327-333.	1.8	28
38	Assessing Pseudomonas Virulence with the Nonmammalian Host Model: Arabidopsis thaliana. Methods in Molecular Biology, 2014, 1149, 689-697.	0.4	6
39	Assessing Pseudomonas aeruginosa Persister/Antibiotic Tolerant Cells. Methods in Molecular Biology, 2014, 1149, 699-707.	0.4	18
40	Mitochondriaâ€ŧargeted antioxidant promotes recovery of skeletal muscle mitochondrial function after burn trauma assessed by <i>in vivo</i> ³¹ P nuclear magnetic resonance and electron paramagnetic resonance spectroscopy. FASEB Journal, 2013, 27, 2521-2530.	0.2	22
41	The End of an Old Hypothesis: The Pseudomonas Signaling Molecules 4-Hydroxy-2-Alkylquinolines Derive from Fatty Acids, Not 3-Ketofatty Acids. Chemistry and Biology, 2013, 20, 1481-1491.	6.2	122
42	Genomic responses in mouse models poorly mimic human inflammatory diseases. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3507-3512.	3.3	2,518
43	Skeletal muscle mitochondrial uncoupling in a murine cancer cachexia model. International Journal of Oncology, 2013, 43, 886-894.	1.4	79
44	Live-cell high resolution magic angle spinning magnetic resonance spectroscopy for in vivo analysis of Pseudomonas aeruginosa metabolomics. Biomedical Reports, 2013, 1, 707-712.	0.9	14
45	A Small Volatile Bacterial Molecule Triggers Mitochondrial Dysfunction in Murine Skeletal Muscle. PLoS ONE, 2013, 8, e74528.	1.1	32
46	A Quorum Sensing Small Volatile Molecule Promotes Antibiotic Tolerance in Bacteria. PLoS ONE, 2013, 8, e80140.	1.1	77
47	The Quorum Sensing Volatile Molecule 2-Amino Acetophenon Modulates Host Immune Responses in a Manner that Promotes Life with Unwanted Guests. PLoS Pathogens, 2012, 8, e1003024.	2.1	49
48	Downâ€regulation of glutatione Sâ€transferase α 4 (hGSTA4) in the muscle of thermally injured patients is indicative of susceptibility to bacterial infection. FASEB Journal, 2012, 26, 730-737.	0.2	29
49	An Ex Vivo Bacteriologic Study Comparing Antiseptic Techniques for Natural Orifice Translumenal Endoscopic Surgery (NOTES) via the Gastrointestinal Tract. Digestive Diseases and Sciences, 2012, 57, 2130-2136.	1.1	6
50	A method for high throughput determination of viable bacteria cell counts in 96-well plates. BMC Microbiology, 2012, 12, 259.	1.3	128
51	Honey's Ability to Counter Bacterial Infections Arises from Both Bactericidal Compounds and QS Inhibition. Frontiers in Microbiology, 2012, 3, 144.	1.5	59
52	Immune response to bacteria induces dissemination of Rasâ€activated <i>Drosophila</i> hindgut cells. EMBO Reports, 2012, 13, 569-576.	2.0	51
53	Imaging C-Fos Gene Expression in Burns Using Lipid Coated Spion Nanoparticles. Advances in Molecular Imaging, 2012, 02, 31-37.	0.3	0
54	Nuclear magnetic resonance in conjunction with functional genomics suggests mitochondrial dysfunction in a murine model of cancer cachexia. International Journal of Molecular Medicine, 2011, 27, 15-24.	1.8	70

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55	A Quorum Sensing Regulated Small Volatile Molecule Reduces Acute Virulence and Promotes Chronic Infection Phenotypes. PLoS Pathogens, 2011, 7, e1002192.	2.1	100
56	Combining magnetic resonance spectroscopy and molecular genomics offers better accuracy in brain tumor typing and prediction of survival than either methodology alone. International Journal of Oncology, 2011, 38, 1113-27.	1.4	5
57	<i>Drosophila melanogaster</i> as a model for human intestinal infection and pathology. DMM Disease Models and Mechanisms, 2011, 4, 21-30.	1.2	254
58	Production of <i>Pseudomonas aeruginosa</i> Intercellular Small Signaling Molecules in Human Burn Wounds. Journal of Pathogens, 2011, 2011, 1-5.	0.9	17
59	Combined offâ€resonance imaging and T2 relaxation in the rotating frame for positive contrast MR imaging of infection in a murine burn model. Journal of Magnetic Resonance Imaging, 2010, 32, 1172-1183.	1.9	11
60	Magnetic Resonance Spectroscopy of live Drosophila melanogaster using Magic Angle Spinning. Journal of Visualized Experiments, 2010, , .	0.2	2
61	Analysis of factorial time-course microarrays with application to a clinical study of burn injury. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9923-9928.	3.3	62
62	Homeostatic Interplay between Bacterial Cell-Cell Signaling and Iron in Virulence. PLoS Pathogens, 2010, 6, e1000810.	2.1	76
63	In vivo high-resolution magic angle spinning magnetic resonance spectroscopy of Drosophila melanogaster at 14.1 T shows trauma in aging and in innate immune-deficiency is linked to reduced insulin signaling. International Journal of Molecular Medicine, 2010, 26, 175-84.	1.8	17
64	The Pathogenic Properties of a Novel and Conserved Gene Product, KerV, in Proteobacteria. PLoS ONE, 2009, 4, e7167.	1.1	13
65	Synergy between bacterial infection and genetic predisposition in intestinal dysplasia. Proceedings of the United States of America, 2009, 106, 20883-20888.	3.3	200
66	Modeling Pseudomonas aeruginosa pathogenesis in plant hosts. Nature Protocols, 2009, 4, 117-124.	5.5	83
67	Drosophila melanogaster as a model host for studying Pseudomonas aeruginosa infection. Nature Protocols, 2009, 4, 1285-1294.	5.5	136
68	Dysfunctional expansion of hematopoietic stem cells and block of myeloid differentiation in lethal sepsis. Blood, 2009, 114, 4064-4076.	0.6	120
69	Microarray analysis suggests that burn injury results in mitochondial dysfunction in human skeletal muscle. International Journal of Molecular Medicine, 2009, 24, 387-92.	1.8	22
70	Use of the lambda Red recombinase system to rapidly generate mutants in Pseudomonas aeruginosa. BMC Molecular Biology, 2008, 9, 20.	3.0	128
71	The roles of mucD and alginate in the virulence of Pseudomonas aeruginosa in plants, nematodes and mice. Molecular Microbiology, 2008, 41, 1063-1076.	1.2	98
72	Comparison of longitudinal leukocyte gene expression after burn injury or trauma-hemorrhage in mice. Physiological Genomics, 2008, 32, 299-310.	1.0	28

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73	Reduced rate of adenosine triphosphate synthesis by in vivo 31P nuclear magnetic resonance spectroscopy and downregulation of PGC-1β in distal skeletal muscle following burn. International Journal of Molecular Medicine, 2008, , .	1.8	5
74	Burn trauma in skeletal muscle results in oxidative stress as assessed by in vivo electron paramagnetic resonance. Molecular Medicine Reports, 2008, 1, 813-819.	1.1	15
75	Reduced rate of adenosine triphosphate synthesis by in vivo 31P nuclear magnetic resonance spectroscopy and downregulation of PGC-1beta in distal skeletal muscle following burn. International Journal of Molecular Medicine, 2008, 21, 201-8.	1.8	11
76	Murine intramyocellular lipids quantified by NMR act as metabolic biomarkers in burn trauma. International Journal of Molecular Medicine, 2008, 21, 825-32.	1.8	12
77	Inhibitors of Pathogen Intercellular Signals as Selective Anti-Infective Compounds. PLoS Pathogens, 2007, 3, e126.	2.1	184
78	Dynorphin Activates Quorum Sensing Quinolone Signaling in Pseudomonas aeruginosa. PLoS Pathogens, 2007, 3, e35.	2.1	170
79	PqsA is required for the biosynthesis of 2,4-dihydroxyquinoline (DHQ), a newly identified metabolite produced by <i>Pseudomonas aeruginosa</i> and <i>Burkholderia thailandensis</i> . Biological Chemistry, 2007, 388, 839-845.	1.2	29
80	Combination of high-resolution magic angle spinning proton magnetic resonance spectroscopy and microscale genomics to type brain tumor biopsies. International Journal of Molecular Medicine, 2007, , .	1.8	14
81	The Effectiveness of Current Sterility Techniques in Natural Orifice Transluminal Endoscopic Surgery (NOTES). Gastrointestinal Endoscopy, 2007, 65, AB290.	0.5	3
82	Involvement of Skeletal Muscle Gene Regulatory Network in Susceptibility to Wound Infection Following Trauma. PLoS ONE, 2007, 2, e1356.	1.1	32
83	Combination of high-resolution magic angle spinning proton magnetic resonance spectroscopy and microscale genomics to type brain tumor biopsies. International Journal of Molecular Medicine, 2007, 20, 199-208.	1.8	42
84	Genomic analysis reveals that Pseudomonas aeruginosa virulence is combinatorial. Genome Biology, 2006, 7, R90.	13.9	479
85	Local and Distant Burn Injury Alter Immuno-Inflammatory Gene Expression in Skeletal Muscle. Journal of Trauma, 2006, 61, 280-292.	2.3	18
86	MvfR, a key Pseudomonas aeruginosa pathogenicity LTTR-class regulatory protein, has dual ligands. Molecular Microbiology, 2006, 62, 1689-1699.	1.2	273
87	Mutation analysis of the Pseudomonas aeruginosa mvfR and pqsABCDE gene promoters demonstrates complex quorum-sensing circuitry. Microbiology (United Kingdom), 2006, 152, 1679-1686.	0.7	126
88	Uncoupling protein 3 expression and intramyocellular lipid accumulation by NMR following local burn trauma. International Journal of Molecular Medicine, 2006, 18, 1223-9.	1.8	8
89	Proton NMR spectroscopy shows lipids accumulate in skeletal muscle in response to burn traumaâ€induced apoptosis. FASEB Journal, 2005, 19, 1431-1440.	0.2	31
90	Application of genome-wide expression analysis to human health and disease. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4801-4806.	3.3	238

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91	Profiling early infection responses: Pseudomonas aeruginosa eludes host defenses by suppressing antimicrobial peptide gene expression. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 2573-2578.	3.3	149
92	Burn injury causes mitochondrial dysfunction in skeletal muscle. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5368-5373.	3.3	93
93	The broad host range pathogen Pseudomonas aeruginosa strain PA14 carries two pathogenicity islands harboring plant and animal virulence genes. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 2530-2535.	3.3	364
94	Challenge of Drosophila melanogaster with Cryptococcus neoformans and Role of the Innate Immune Response. Eukaryotic Cell, 2004, 3, 413-419.	3.4	126
95	Analysis of Pseudomonas aeruginosa 4-hydroxy-2-alkylquinolines (HAQs) reveals a role for 4-hydroxy-2-heptylquinoline in cell-to-cell communication. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1339-1344.	3.3	561
96	The contribution of MvfR to Pseudomonas aeruginosa pathogenesis and quorum sensing circuitry regulation: multiple quorum sensing-regulated genes are modulated without affecting lasRI, rhlRI or the production of N-acyl- l-homoserine lactones. Molecular Microbiology, 2004, 55, 998-1014.	1.2	396
97	Electrospray/mass spectrometric identification and analysis of 4-hydroxy-2-alkylquinolines (HAQs) produced by Pseudomonas aeruginosa. Journal of the American Society for Mass Spectrometry, 2004, 15, 862-869.	1.2	232
98	Pseudomonas aeruginosa-Plant Root Interactions. Pathogenicity, Biofilm Formation, and Root Exudation. Plant Physiology, 2004, 134, 320-331.	2.3	327
99	The Drosophila melanogaster Toll Pathway Participates in Resistance to Infection by the Gram-Negative Human Pathogen Pseudomonas aeruginosa. Infection and Immunity, 2003, 71, 4059-4066.	1.0	162
100	Identification of Virulence Genes in a Pathogenic Strain of Pseudomonas aeruginosa by Representational Difference Analysis. Journal of Bacteriology, 2002, 184, 952-961.	1.0	92
101	Use of plant and insect hosts to model bacterial pathogenesis. Methods in Enzymology, 2002, 358, 3-13.	0.4	8
102	COMMONMECHANISMS FORPATHOGENS OFPLANTS ANDANIMALS. Annual Review of Phytopathology, 2001, 39, 259-284.	3.5	135
103	Differential Roles of the Pseudomonas aeruginosa PA14 rpoN Gene in Pathogenicity in Plants, Nematodes, Insects, and Mice. Journal of Bacteriology, 2001, 183, 7126-7134.	1.0	117
104	Elucidating the molecular mechanisms of bacterial virulence using non-mammalian hosts. Molecular Microbiology, 2000, 37, 981-988.	1.2	178
105	Positive Correlation between Virulence ofPseudomonas aeruginosa Mutants in Mice and Insects. Journal of Bacteriology, 2000, 182, 3843-3845.	1.0	475
106	Pathogenesis of the Human Opportunistic PathogenPseudomonas aeruginosa PA14 in Arabidopsis. Plant Physiology, 2000, 124, 1766-1774.	2.3	118
107	Molecular Mechanisms of Bacterial Virulence Elucidated Using a Pseudomonas aeruginosa– Caenorhabditis elegans Pathogenesis Model. Cell, 1999, 96, 47-56.	13.5	721
108	Modulation of Expression of the ToxR Regulon in <i>Vibrio cholerae</i> by a Member of the Two-Component Family of Response Regulators. Infection and Immunity, 1998, 66, 5854-5861.	1.0	74

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109	Uncoupling protein 3 expression and intramyocellular lipid accumulation by NMR following local burn trauma. International Journal of Molecular Medicine, 0, , .	1.8	5
110	Murine intramyocellular lipids quantified by NMR act as metabolic biomarkers in burn trauma. International Journal of Molecular Medicine, 0, , .	1.8	7