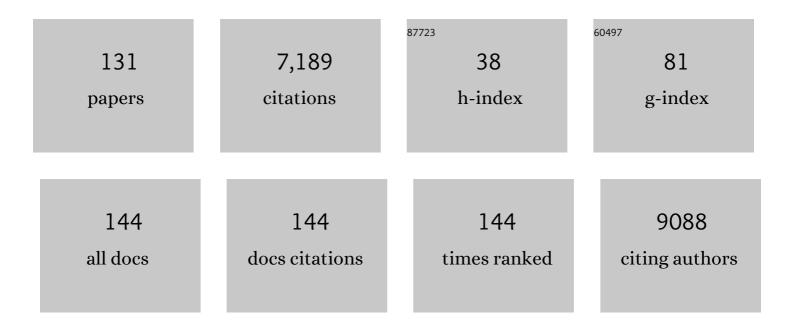
Gavin Hugh Thomas

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | The structural basis for highâ€affinity uptake of ligninâ€derived aromatic compounds by proteobacterial TRAP transporters. FEBS Journal, 2022, 289, 436-456. | 2.2 | 3 |
| 2 | Microbial Musings – November 2021. Microbiology (United Kingdom), 2022, 167, . | 0.7 | 0 |
| 3 | Antibiotic-functionalized gold nanoparticles for the detection of active β-lactamases. Nanoscale Advances, 2022, 4, 573-581. | 2.2 | 6 |
| 4 | Diverse functions for acyltransferase-3 proteins in the modification of bacterial cell surfaces. Microbiology (United Kingdom), 2022, 168, . | 0.7 | 6 |
| 5 | Reference-Grade Genome and Large Linear Plasmid of Streptomyces rimosus: Pushing the Limits of Nanopore Sequencing. Microbiology Spectrum, 2022, 10, e0243421. | 1.2 | 5 |
| 6 | Multi-omic based production strain improvement (MOBpsi) for bio-manufacturing of toxic chemicals. Metabolic Engineering, 2022, 72, 133-149. | 3.6 | 6 |
| 7 | Improved furfural tolerance in <i>Escherichia coli</i> mediated by heterologous NADH-dependent benzyl alcohol dehydrogenases. Biochemical Journal, 2022, 479, 1045-1058. | 1.7 | 5 |
| 8 | Microbial Musings â \in " Spring 2022. Microbiology (United Kingdom), 2022, 168, . | 0.7 | 0 |
| 9 | Triggering Closure of a Sialic Acid TRAP Transporter Substrate Binding Protein through Binding of Natural or Artificial Substrates. Journal of Molecular Biology, 2021, 433, 166756. | 2.0 | 10 |
| 10 | Microbial Musings – January 2021. Microbiology (United Kingdom), 2021, 167, . | 0.7 | 1 |
| 11 | Reconstitution and optimisation of the biosynthesis of bacterial sugar pseudaminic acid (Pse5Ac7Ac) enables preparative enzymatic synthesis of CMP-Pse5Ac7Ac. Scientific Reports, 2021, 11, 4756. | 1.6 | 14 |
| 12 | Microbial Musings – February 2021. Microbiology (United Kingdom), 2021, 167, . | 0.7 | 0 |
| 13 | Microbial Musings – March 2021. Microbiology (United Kingdom), 2021, 167, . | 0.7 | 0 |
| 14 | Synthetic biology approaches to actinomycete strain improvement. FEMS Microbiology Letters, 2021, 368, . | 0.7 | 2 |
| 15 | Microbial Musings – May 2021. Microbiology (United Kingdom), 2021, 167, . | 0.7 | 1 |
| 16 | Multiple evolutionary origins reflect the importance of sialic acid transporters in the colonization potential of bacterial pathogens and commensals. Microbial Genomics, 2021, 7, . | 1.0 | 12 |
| 17 | Multi-omics Study of Planobispora rosea, Producer of the Thiopeptide Antibiotic GE2270A. MSystems, 2021, 6, e0034121. | 1.7 | 2 |
| 18 | Microbial Musings – June 2021. Microbiology (United Kingdom), 2021, 167, . | 0.7 | 0 |

| # | Article | IF | CITATIONS |
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| 19 | Microbial Musings – July 2021. Microbiology (United Kingdom), 2021, 167, . | 0.7 | Ο |
| 20 | Microbial Musings – August 2021. Microbiology (United Kingdom), 2021, 167, . | 0.7 | 0 |
| 21 | Bioethanol from autoclaved municipal solid waste: Assessment of environmental and financial viability under policy contexts. Applied Energy, 2021, 298, 117118. | 5.1 | 16 |
| 22 | Microbial Musings $\hat{a} \in \hat{~}$ September 2021. Microbiology (United Kingdom), 2021, 167, . | 0.7 | 0 |
| 23 | Microbial Musings – October 2021. Microbiology (United Kingdom), 2021, 167, . | 0.7 | 1 |
| 24 | Microbial Musings – December 2021. Microbiology (United Kingdom), 2021, 167, . | 0.7 | 0 |
| 25 | Synthesis and biochemical evaluation of cephalosporin analogues equipped with chemical tethers. RSC Advances, 2020, 10, 36485-36494. | 1.7 | 3 |
| 26 | Biocatalytic Transfer of Pseudaminic Acid (Pse5Ac7Ac) Using Promiscuous Sialyltransferases in a Chemoenzymatic Approach to Pse5Ac7Ac-Containing Glycosides. ACS Catalysis, 2020, 10, 9986-9993. | 5.5 | 10 |
| 27 | Uncovering a novel molecular mechanism for scavenging sialic acids in bacteria. Journal of Biological Chemistry, 2020, 295, 13724-13736. | 1.6 | 26 |
| 28 | The molecular basis of thioalcohol production in human body odour. Scientific Reports, 2020, 10, 12500. | 1.6 | 16 |
| 29 | A Salmochelin S4-Inspired Ciprofloxacin Trojan Horse Conjugate. ACS Infectious Diseases, 2020, 6, 2532-2541. | 1.8 | 19 |
| 30 | Acetylation of Surface Carbohydrates in Bacterial Pathogens Requires Coordinated Action of a Two-Domain Membrane-Bound Acyltransferase. MBio, 2020, 11, . | 1.8 | 22 |
| 31 | Robust microorganisms for biofuel and chemical production from municipal solid waste. Microbial Cell Factories, 2020, 19, 68. | 1.9 | 24 |
| 32 | Synthetic Approaches for Accessing Pseudaminic Acid (Pse) Bacterial Glycans. ChemBioChem, 2020, 21, 1397-1407. | 1.3 | 10 |
| 33 | MORF: An online tool for exploring microbial cell responses using multi-omics analysis. Access Microbiology, 2020, 2, . | 0.2 | 6 |
| 34 | Simulating the evolutionary trajectories of metabolic pathways for insect symbionts in the genus Sodalis. Microbial Genomics, 2020, 6, . | 1.0 | 7 |
| 35 | Microbial Musings – May 2020. Microbiology (United Kingdom), 2020, 166, 422-424. | 0.7 | Ο |
| 36 | Microbial Musings – June 2020. Microbiology (United Kingdom), 2020, 166, 498-500. | 0.7 | 1 |

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| 37 | Microbial Musings – August 2020. Microbiology (United Kingdom), 2020, 166, 680-682. | 0.7 | Ο |
| 38 | Microbial Musings – November 2020. Microbiology (United Kingdom), 2020, 166, 1004-1006. | 0.7 | 0 |
| 39 | Microbial Musings – December 2020. Microbiology (United Kingdom), 2020, 166, 1107-1109. | 0.7 | 0 |
| 40 | Microbial Musings – January 2020. Microbiology (United Kingdom), 2020, 166, 1-3. | 0.7 | 1 |
| 41 | Microbial Musings – February 2020. Microbiology (United Kingdom), 2020, 166, 93-95. | 0.7 | Ο |
| 42 | Microbial Musings – March 2020. Microbiology (United Kingdom), 2020, 166, 227-229. | 0.7 | 1 |
| 43 | Microbial musings – April 2020. Microbiology (United Kingdom), 2020, 166, 332-334. | 0.7 | Ο |
| 44 | Microbial Musings – July 2020. Microbiology (United Kingdom), 2020, 166, 594-596. | 0.7 | 1 |
| 45 | The Salmonella enterica serovar Typhimurium virulence factor STM3169 is a hexuronic acid binding protein component of a TRAP transporter. Microbiology (United Kingdom), 2020, 166, 981-987. | 0.7 | 2 |
| 46 | Microbial Musings – September 2020. Microbiology (United Kingdom), 2020, 166, 794-796. | 0.7 | 0 |
| 47 | Microbial Musings – October 2020. Microbiology (United Kingdom), 2020, 166, 891-893. | 0.7 | Ο |
| 48 | Elucidation of a sialic acid metabolism pathway in mucus-foraging Ruminococcus gnavus unravels mechanisms of bacterial adaptation to the gut. Nature Microbiology, 2019, 4, 2393-2404. | 5.9 | 83 |
| 49 | Surface-Bound Antibiotic for the Detection of Î ² -Lactamases. ACS Applied Materials & Interfaces, 2019, 11, 32599-32604. | 4.0 | 7 |
| 50 | Water Networks Can Determine the Affinity of Ligand Binding to Proteins. Journal of the American Chemical Society, 2019, 141, 15818-15826. | 6.6 | 98 |
| 51 | Evolutionary dynamics of membrane transporters and channels: enhancing function through fusion. Current Opinion in Genetics and Development, 2019, 58-59, 76-86. | 1.5 | 9 |
| 52 | A Tale of Three Species: Adaptation of Sodalis glossinidius to Tsetse Biology, <i>Wigglesworthia</i> Metabolism, and Host Diet. MBio, 2019, 10, . | 1.8 | 23 |
| 53 | Systems Analyses Reveal the Resilience of Escherichia coli Physiology during Accumulation and Export of the Nonnative Organic Acid Citramalate. MSystems, 2019, 4, . | 1.7 | 9 |
| 54 | Comprehensive identification of RNA–protein interactions in any organism using orthogonal organic phase separation (OOPS). Nature Biotechnology, 2019, 37, 169-178. | 9.4 | 247 |

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| 55 | Enhanced functionalisation of major facilitator superfamily transporters via fusion of C-terminal protein domains is both extensive and varied in bacteria. Microbiology (United Kingdom), 2019, 165, 419-424. | 0.7 | 7 |
| 56 | Antibiotic export: transporters involved in the final step of natural product production. Microbiology (United Kingdom), 2019, 165, 805-818. | 0.7 | 24 |
| 57 | Part by Part: Synthetic Biology Parts Used in Solventogenic Clostridia. ACS Synthetic Biology, 2018, 7, 311-327. | 1.9 | 17 |
| 58 | Structural basis of malodour precursor transport in the human axilla. ELife, 2018, 7, . | 2.8 | 34 |
| 59 | CBMNet: the â€~Crossing Biological Membranes' network in industrial biotechnology and bioenergy. Biochemical Society Transactions, 2018, 46, 871-875. | 1.6 | 1 |
| 60 | Tripartite ATP-Independent Periplasmic (TRAP) Transporters and Tripartite Tricarboxylate Transporters (TTT): From Uptake to Pathogenicity. Frontiers in Cellular and Infection Microbiology, 2018, 8, 33. | 1.8 | 77 |
| 61 | Massive over-representation of solute-binding proteins (SBPs) from the tripartite tricarboxylate transporter (TTT) family in the genome of the I±-proteobacterium Rhodoplanes sp. Z2-YC6860. Microbial Genomics, 2018, 4, . | 1.0 | 5 |
| 62 | PELDOR Spectroscopy Reveals Two Defined States of a Sialic Acid TRAP Transporter SBP in Solution. Biophysical Journal, 2017, 112, 109-120. | 0.2 | 31 |
| 63 | On the pull: periplasmic trapping of sugars before transport. Molecular Microbiology, 2017, 104, 883-888. | 1.2 | 5 |
| 64 | Sialic acid acquisition in bacteria–one substrate, many transporters. Biochemical Society Transactions, 2016, 44, 760-765. | 1.6 | 37 |
| 65 | Intrinsic challenges in ancient microbiome reconstruction using 16S rRNA gene amplification. Scientific Reports, 2015, 5, 16498. | 1.6 | 153 |
| 66 | The substrate-binding protein in bacterial ABC transporters: dissecting roles in the evolution of substrate specificity. Biochemical Society Transactions, 2015, 43, 1011-1017. | 1.6 | 115 |
| 67 | Tripartite ATP-independent Periplasmic (TRAP) Transporters Use an Arginine-mediated Selectivity Filter for High Affinity Substrate Binding. Journal of Biological Chemistry, 2015, 290, 27113-27123. | 1.6 | 38 |
| 68 | Identification of axillary <i>Staphylococcus</i> sp. involved in the production of the malodorous thioalcohol 3-methyl-3-sufanylhexan-1-ol. FEMS Microbiology Letters, 2015, 362, fnv111. | 0.7 | 34 |
| 69 | Probing Bacterial Uptake of Glycosylated Ciprofloxacin Conjugates. ChemBioChem, 2014, 15, 466-471. | 1.3 | 6 |
| 70 | Genome Sequence of the Tsetse Fly (<i>Glossina morsitans</i>): Vector of African Trypanosomiasis. Science, 2014, 344, 380-386. | 6.0 | 254 |
| 71 | Probing linker design in citric acid–ciprofloxacin conjugates. Bioorganic and Medicinal Chemistry, 2014, 22, 4499-4505. | 1.4 | 21 |
| 72 | A different path: Revealing the function of staphylococcal proteins in biofilm formation. FEBS Letters, 2014, 588, 1869-1872. | 1.3 | 34 |

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| 73 | Staphyloferrin A as siderophore-component in fluoroquinolone-based Trojan horse antibiotics. Organic and Biomolecular Chemistry, 2013, 11, 3461. | 1.5 | 66 |
| 74 | Transport and catabolism of the sialic acids <i>N-</i> glycolylneuraminic acid and 3-keto-3-deoxy- <scp>d</scp> -glycero- <scp>d</scp> -galactonononic acid by <i>Escherichia coli</i> K-12. FEMS Microbiology Letters, 2013, 347, 14-22. | 0.7 | 25 |
| 75 | The Effects of Methionine Acquisition and Synthesis on Streptococcus Pneumoniae Growth and Virulence. PLoS ONE, 2013, 8, e49638. | 1.1 | 60 |
| 76 | Waste not, want not: Nitrogen recycling by metabolic pathways shared between an animal and its symbiotic bacteria. Biochemist, 2013, 35, 20-24. | 0.2 | 1 |
| 77 | MpaA is a murein-tripeptide-specific zinc carboxypeptidase that functions as part of a catabolic pathway for peptidoglycan-derived peptides in γ-proteobacteria. Biochemical Journal, 2012, 448, 329-341. | 1.7 | 12 |
| 78 | The central role of the host cell in symbiotic nitrogen metabolism. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 2965-2973. | 1.2 | 75 |
| 79 | The VC1777–VC1779 proteins are members of a sialic acid-specific subfamily of TRAP transporters (SiaPQM) and constitute the sole route of sialic acid uptake in the human pathogen Vibrio cholerae. Microbiology (United Kingdom), 2012, 158, 2158-2167. | 0.7 | 25 |
| 80 | The Membrane Proteins SiaQ and SiaM Form an Essential Stoichiometric Complex in the Sialic Acid Tripartite ATP-independent Periplasmic (TRAP) Transporter SiaPQM (VC1777–1779) from Vibrio cholerae. Journal of Biological Chemistry, 2012, 287, 3598-3608. | 1.6 | 46 |
| 81 | Sialic acid utilization by the soil bacteriumCorynebacterium glutamicum. FEMS Microbiology Letters, 2012, 336, 131-138. | 0.7 | 21 |
| 82 | Synthesis of the complete series of mono acetates of N-acetyl- <scp>d</scp> -neuraminic acid. Organic and Biomolecular Chemistry, 2012, 10, 529-535. | 1.5 | 9 |
| 83 | Genetic and metabolic determinants of nutritional phenotype in an insect-bacterial symbiosis. Molecular Ecology, 2011, 20, 2073-2084. | 2.0 | 60 |
| 84 | Tripartite ATP-independent periplasmic (TRAP) transporters in bacteria and archaea. FEMS Microbiology Reviews, 2011, 35, 68-86. | 3.9 | 190 |
| 85 | Compensating Stereochemical Changes Allow Murein Tripeptide to Be Accommodated in a Conventional Peptide-binding Protein. Journal of Biological Chemistry, 2011, 286, 31512-31521. | 1.6 | 33 |
| 86 | On sialic acid transport and utilization by Vibrio cholerae. Microbiology (United Kingdom), 2011, 157, 3253-3254. | 0.7 | 10 |
| 87 | Characterization of a novel sialic acid transporter of the sodium solute symporter (SSS) family and in vivo comparison with known bacterial sialic acid transporters. FEMS Microbiology Letters, 2010, 304, 47-54. | 0.7 | 44 |
| 88 | Genomic insight into the amino acid relations of the pea aphid, <i>Acyrthosiphon pisum</i> , with its symbiotic bacterium <i>Buchnera aphidicola</i> . Insect Molecular Biology, 2010, 19, 249-258. | 1.0 | 219 |
| 89 | Genomic evidence for complementary purine metabolism in the pea aphid, <i>Acyrthosiphon pisum</i> , and its symbiotic bacterium <i>Buchnera aphidicola</i> . Insect Molecular Biology, 2010, 19, 241-248. | 1.0 | 46 |
| 90 | Homes for the orphans: utilization of multiple substrate-binding proteins by ABC transporters. Molecular Microbiology, 2010, 75, 6-9. | 1.2 | 26 |

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| 91 | Genome Sequence of the Pea Aphid Acyrthosiphon pisum. PLoS Biology, 2010, 8, e1000313. | 2.6 | 913 |
| 92 | Caught in a TRAP: substrate-binding proteins in secondary transport. Trends in Microbiology, 2010, 18, 471-478. | 3.5 | 54 |
| 93 | The substrate-binding protein imposes directionality on an electrochemical sodium gradient-driven TRAP transporter. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1778-1783. | 3.3 | 93 |
| 94 | <i>Echo</i> LOCATION: an <i>in silico</i> analysis of the subcellular locations of <i>Escherichia coli</i> proteins and comparison with experimentally derived locations. Bioinformatics, 2009, 25, 163-166. | 1.8 | 27 |
| 95 | Screening of <i>Streptococcus pneumoniae</i> ABC Transporter Mutants Demonstrates that LivJHMGF, a Branched-Chain Amino Acid ABC Transporter, Is Necessary for Disease Pathogenesis. Infection and Immunity, 2009, 77, 3412-3423. | 1.0 | 76 |
| 96 | Evolutionary diversification of an ancient gene family (rhs) through C-terminal displacement. BMC Genomics, 2009, 10, 584. | 1.2 | 99 |
| 97 | A fragile metabolic network adapted for cooperation in the symbiotic bacterium Buchnera aphidicola. BMC Systems Biology, 2009, 3, 24. | 3.0 | 98 |
| 98 | Synthesis of citrate–ciprofloxacin conjugates. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 1496-1498. | 1.0 | 32 |
| 99 | Furanose-specific Sugar Transport. Journal of Biological Chemistry, 2009, 284, 31156-31163. | 1.6 | 27 |
| 100 | Sialic Acid Mutarotation Is Catalyzed by the Escherichia coli β-Propeller Protein YjhT. Journal of Biological Chemistry, 2008, 283, 4841-4849. | 1.6 | 55 |
| 101 | Tripartite ATP-Independent Periplasmic Transporters: Application of a Relational Database for Genome-Wide Analysis of Transporter Gene Frequency and Organization. Journal of Molecular Microbiology and Biotechnology, 2007, 12, 218-226. | 1.0 | 43 |
| 102 | Sialic acid utilization by bacterial pathogens. Microbiology (United Kingdom), 2007, 153, 2817-2822. | 0.7 | 436 |
| 103 | Novel ligands for the extracellular solute receptors of two bacterial TRAP transporters. Microbiology (United Kingdom), 2006, 152, 187-198. | 0.7 | 46 |
| 104 | Escherichia coli K-12: a cooperatively developed annotation snapshot–2005. Nucleic Acids Research, 2006, 34, 1-9. | 6.5 | 606 |
| 105 | BuchneraBASE: a post-genomic resource for Buchnera sp. APS. Bioinformatics, 2006, 22, 641-642. | 1.8 | 17 |
| 106 | Conservation of Structure and Mechanism in Primary and Secondary Transporters Exemplified by SiaP, a Sialic Acid Binding Virulence Factor from Haemophilus influenzae. Journal of Biological Chemistry, 2006, 281, 22212-22222. | 1.6 | 81 |
| 107 | In vivo functional characterization of the Escherichia coli ammonium channel AmtB: evidence for metabolic coupling of AmtB to glutamine synthetase. Biochemical Journal, 2005, 390, 215-222. | 1.7 | 89 |
| 108 | An ATP-binding cassette-type cysteine transporter in Campylobacter jejuni inferred from the structure of an extracytoplasmic solute receptor protein. Molecular Microbiology, 2005, 57, 143-155. | 1.2 | 72 |

| # | Article | IF | CITATIONS |
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| 109 | Sialic acid transport inHaemophilus influenzaeis essential for lipopolysaccharide sialylation and serum resistance and is dependent on a novel tripartite ATP-independent periplasmic transporter. Molecular Microbiology, 2005, 58, 1173-1185. | 1.2 | 120 |
| 110 | EchoBASE: an integrated post-genomic database for Escherichia coli. Nucleic Acids Research, 2004, 33, D329-D333. | 6.5 | 70 |
| 111 | Purification of the Escherichia coli ammonium transporter AmtB reveals a trimeric stoichiometry. Biochemical Journal, 2002, 364, 527-535. | 1.7 | 88 |
| 112 | Mopping up transcription factors. Trends in Microbiology, 2002, 10, 65-66. | 3.5 | 0 |
| 113 | Membrane protein topology: phospholipids call the shots. Trends in Microbiology, 2002, 10, 310-311. | 3.5 | 0 |
| 114 | Membrane sequestration of the signal transduction protein GlnK by the ammonium transporter AmtB. EMBO Journal, 2002, 21, 536-545. | 3.5 | 208 |
| 115 | Removing repression: novel roles for solute transporters in regulating gene expression. Trends in Microbiology, 2001, 9, 58. | 3.5 | 2 |
| 116 | Helicobacter pylori retakes the acid test. Trends in Microbiology, 2001, 9, 360. | 3.5 | 0 |
| 117 | The tripartite ATP-independent periplasmic (TRAP) transporters of bacteria and archaea. FEMS Microbiology Reviews, 2001, 25, 405-424. | 3.9 | 144 |
| 118 | Membrane topology of the Mep/Amt family of ammonium transport proteins. Biochemical Society Transactions, 2000, 28, A94-A94. | 1.6 | 0 |
| 119 | Membrane topology of the Mep/Amt family of ammonium transporters. Molecular Microbiology, 2000, 37, 331-344. | 1.2 | 113 |
| 120 | Novel growth characteristics and high rates of nitrate reduction of anEscherichia colistrain, LCB2048, that expresses only a periplasmic nitrate reductase. FEMS Microbiology Letters, 2000, 185, 51-57. | 0.7 | 15 |
| 121 | The glnKamtB operon. Trends in Genetics, 2000, 16, 11-14. | 2.9 | 119 |
| 122 | Helicobacter takes the acid test. Trends in Microbiology, 2000, 8, 160-161. | 3.5 | 1 |
| 123 | New roles for nitrate reductases. Trends in Microbiology, 2000, 8, 15. | 3.5 | 1 |
| 124 | Completing the E. coli proteome: a database of gene products characterised since the completion of the genome sequence. Bioinformatics, 1999, 15, 860-861. | 1.8 | 31 |
| 125 | The periplasmic nitrate reductase fromEscherichia coli: a heterodimeric molybdoprotein with a double-arginine signal sequence and an unusual leader peptide cleavage site. FEMS Microbiology Letters, 1999, 174, 167-171. | 0.7 | 34 |
| 126 | Competition between Escherichia coli strains expressing either a periplasmic or a membrane-bound nitrate reductase: does Nap confer a selective advantage during nitrate-limited growth?. Biochemical Journal, 1999, 344, 77. | 1.7 | 35 |

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| 127 | Competition between <i>Escherichia coli</i> strains expressing either a periplasmic or a membrane-bound nitrate reductase: does Nap confer a selective advantage during nitrate-limited growth?. Biochemical Journal, 1999, 344, 77-84. | 1.7 | 133 |
| 128 | ESCHERICHIA COLI ON THE WWW. Letters in Applied Microbiology, 1998, 27, 122-123. | 1.0 | 4 |
| 129 | A Novel and Ubiquitous System for Membrane Targeting and Secretion of Cofactor-Containing Proteins. Cell, 1998, 93, 93-101. | 13.5 | 446 |
| 130 | Escherichia coli Kâ€12 genes essential for the synthesis of c â€type cytochromes and a third nitrate reductase located in the periplasm. Molecular Microbiology, 1996, 19, 467-481. | 1.2 | 163 |
| 131 | Understanding the Model and the Menace: a Postgenomic View of Escherichia Coli. , 0, , 21-48. | | 1 |