# Nicola Zamboni

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7789372/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 127 papers | 15,312 citations | 28190 55 h-index | 19690 117 g-index |
| 138 all docs | 138 docs citations | 138 times ranked | 23183 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The RNA binding protein human antigen R is a gatekeeper of liver homeostasis. Hepatology, 2022, 75, 881-897. | 3.6 | 14 |
| 2 | Dynamic tracing of sugar metabolism reveals the mechanisms of action of synthetic sugar analogs. Glycobiology, 2022, 32, 239-250. | 1.3 | 15 |
| 3 | Multiomic profiling of the liver across diets and age in a diverse mouse population. Cell Systems, 2022, 13, 43-57.e6. | 2.9 | 24 |
| 4 | Genome-wide RNAi screen identifies novel players in human 60S subunit biogenesis including key enzymes of polyamine metabolism. Nucleic Acids Research, 2022, 50, 2872-2888. | 6.5 | 11 |
| 5 | MSNovelist: de novo structure generation from mass spectra. Nature Methods, 2022, 19, 865-870. | 9.0 | 49 |
| 6 | ADAMTS18+ villus tip telocytes maintain a polarized VEGFA signaling domain and fenestrations in nutrient-absorbing intestinal blood vessels. Nature Communications, 2022, 13, . | 5.8 | 20 |
| 7 | Dynamic 3D proteomes reveal protein functional alterations at high resolution in situ. Cell, 2021, 184, 545-559.e22. | 13.5 | 82 |
| 8 | Vegan diet in young children remodels metabolism and challenges the statuses of essential nutrients. EMBO Molecular Medicine, 2021, 13, e13492. | 3.3 | 43 |
| 9 | Identification of HIF-dependent alternative splicing in gastrointestinal cancers and characterization of a long, coding isoform of SLC35A3. Genomics, 2021, 113, 515-529. | 1.3 | 4 |
| 10 | Targeting glioma-initiating cells via the tyrosine metabolic pathway. Journal of Neurosurgery, 2021, 134, 721-732. | 0.9 | 23 |
| 11 | Paraburkholderia phymatum Homocitrate Synthase NifV Plays a Key Role for Nitrogenase Activity during Symbiosis with Papilionoids and in Free-Living Growth Conditions. Cells, 2021, 10, 952. | 1.8 | 9 |
| 12 | Bradyrhizobium diazoefficiens Requires Chemical Chaperones To Cope with Osmotic Stress during Soybean Infection. MBio, 2021, 12, . | 1.8 | 8 |
| 13 | Molecular pathways behind acquired obesity: Adipose tissue and skeletal muscle multiomics in monozygotic twin pairs discordant for BMI. Cell Reports Medicine, 2021, 2, 100226. | 3.3 | 31 |
| 14 | Bifunctional Malic/Malolactic Enzyme Provides a Novel Mechanism for NADPH-Balancing in Bacillus subtilis. MBio, 2021, 12, . | 1.8 | 6 |
| 15 | Mass spectrometry-based metabolomics: a guide for annotation, quantification and best reporting practices. Nature Methods, 2021, 18, 747-756. | 9.0 | 403 |
| 16 | Metabolomics and Dual RNA-Sequencing on Root Nodules Revealed New Cellular Functions Controlled by Paraburkholderia phymatum NifA. Metabolites, 2021, 11, 455. | 1.3 | 3 |
| 17 | FOXC2 controls adult lymphatic endothelial specialization, function, and gut lymphatic barrier preventing multiorgan failure. Science Advances, 2021, 7, . | 4.7 | 43 |
| 18 | Commensal Clostridiales strains mediate effective anti-cancer immune response against solid tumors. Cell Host and Microbe, 2021, 29, 1573-1588.e7. | 5.1 | 71 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | SLAW: A Scalable and Self-Optimizing Processing Workflow for Untargeted LC-MS. Analytical Chemistry, 2021, 93, 15024-15032. | 3.2 | 21 |
| 20 | Dietary excess regulates absorption and surface of gut epithelium through intestinal PPARÎ±. Nature Communications, 2021, 12, 7031. | 5.8 | 32 |
| 21 | Mitochondrialâ€“cell cycle cross-talk drives endoreplication in heart disease. Science Translational Medicine, 2021, 13, eabi7964. | 5.8 | 12 |
| 22 | The coenzyme thiamine diphosphate displays a daily rhythm in the Arabidopsis nucleus. Communications Biology, 2020, 3, 209. | 2.0 | 21 |
| 23 | Astrocyte glutathione maintains endothelial barrier stability. Redox Biology, 2020, 34, 101576. | 3.9 | 38 |
| 24 | Genome-Scale CRISPR Screening in Human Intestinal Organoids Identifies Drivers of TGF-Î² Resistance. Cell Stem Cell, 2020, 26, 431-440.e8. | 5.2 | 103 |
| 25 | Involvement of circulating factors in the transmission of paternal experiences through the germline. EMBO Journal, 2020, 39, e104579. | 3.5 | 28 |
| 26 | Mitochondrial spongiotic brain disease: astrocytic stress and harmful rapamycin and ketosis effect. Life Science Alliance, 2020, 3, e202000797. | 1.3 | 12 |
| 27 | SPHN/PHRT: Forming a Swiss-Wide Infrastructure for Data-Driven Sepsis Research. Studies in Health Technology and Informatics, 2020, 270, 1163-1167. | 0.2 | 3 |
| 28 | A Fatty Acid Oxidation-dependent Metabolic Shift Regulates the Adaptation of BRAF-mutated Melanoma to MAPK Inhibitors. Clinical Cancer Research, 2019, 25, 6852-6867. | 3.2 | 74 |
| 29 | The RNA-Binding Protein PUM2 Impairs Mitochondrial Dynamics and Mitophagy During Aging. Molecular Cell, 2019, 73, 775-787.e10. | 4.5 | 100 |
| 30 | Metabolomics Identifies a Biomarker Revealing In Vivo Loss of Functional Î²-Cell Mass Before Diabetes Onset. Diabetes, 2019, 68, 2272-2286. | 0.3 | 28 |
| 31 | Yin Yang 1 sustains biosynthetic demands during brain development in a stage-specific manner. Nature Communications, 2019, 10, 2192. | 5.8 | 28 |
| 32 | Metabolomics reveals tepotinibâ€‐related mitochondrial dysfunction in <scp>MET</scp>â€activating mutationsâ€driven models. FEBS Journal, 2019, 286, 2692-2710. | 2.2 | 2 |
| 33 | Yin Yang 1 Orchestrates a Metabolic Program Required for Both Neural Crest Development and Melanoma Formation. Cell Stem Cell, 2019, 24, 637-653.e9. | 5.2 | 44 |
| 34 | Lipid signalling drives proteolytic rewiring of mitochondria by YME1L. Nature, 2019, 575, 361-365. | 13.7 | 116 |
| 35 | Inhibition of Mevalonate Pathway Prevents Adipocyte Browning in Mice and Men by Affecting Protein Prenylation. Cell Metabolism, 2019, 29, 901-916.e8. | 7.2 | 59 |
| 36 | Peroxisome Proliferator Activated Receptor Gamma Controls Mature Brown Adipocyte Inducibility through Glycerol Kinase. Cell Reports, 2018, 22, 760-773. | 2.9 | 86 |

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|---|---|---|---|
| 37 | Modulation of Myelopoiesis Progenitors Is an Integral Component of Trained Immunity. Cell, 2018, 172, 147-161.e12. | 13.5 | 702 |
| 38 | Liposome-supported peritoneal dialysis in the treatment of severe hyperammonemia: An investigation on potential interactions. Journal of Controlled Release, 2018, 278, 57-65. | 4.8 | 16 |
| 39 | CBMT-41. GLIOBLASTOMA CLONES DERIVED FROM TUMOR CORE AND EDGE DISPLAY SPATIAL METABOLIC HETEROGENEITY. Neuro-Oncology, 2018, 20, vi41-vi41. | 0.6 | 0 |
| 40 | Quantification of Cellular Folate Species by LC-MS after Stabilization by Derivatization. Analytical Chemistry, 2018, 90, 7349-7356. | 3.2 | 12 |
| 41 | The thioredoxin-1 system is essential for fueling DNA synthesis during T-cell metabolic reprogramming and proliferation. Nature Communications, 2018, 9, 1851. | 5.8 | 77 |
| 42 | Metabolomics and Transcriptomics Identify Multiple Downstream Targets of Paraburkholderia phymatum Ïƒ54 During Symbiosis with Phaseolus vulgaris. International Journal of Molecular Sciences, 2018, 19, 1049. | 1.8 | 11 |
| 43 | Non-targeted LC-MS based metabolomics analysis of the urinary steroidal profile. Analytica Chimica Acta, 2017, 964, 112-122. | 2.6 | 38 |
| 44 | 6-Phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 is essential for p53-null cancer cells. Oncogene, 2017, 36, 3287-3299. | 2.6 | 58 |
| 45 | An integrative metabolomics and transcriptomics study to identify metabolic alterations in aged skin of humans in vivo. BMC Genomics, 2017, 18, 169. | 1.2 | 62 |
| 46 | Genomewide landscape of geneâ€“metabolome associations in Escherichia coli. Molecular Systems Biology, 2017, 13, 907. | 3.2 | 109 |
| 47 | Multi-omics analysis identifies ATF4 as a key regulator of the mitochondrial stress response in mammals. Journal of Cell Biology, 2017, 216, 2027-2045. | 2.3 | 590 |
| 48 | Metabotypes of breast cancer cell lines revealed by non-targeted metabolomics. Metabolic Engineering, 2017, 43, 173-186. | 3.6 | 26 |
| 49 | Nontargeted in vitro metabolomics for high-throughput identification of novel enzymes in Escherichia coli. Nature Methods, 2017, 14, 187-194. | 9.0 | 125 |
| 50 | Frontiers of high-throughput metabolomics. Current Opinion in Chemical Biology, 2017, 36, 15-23. | 2.8 | 139 |
| 51 | Integration of Metabolomics and Transcriptomics Reveals a Complex Diet of Mycobacterium tuberculosis during Early Macrophage Infection. MSystems, 2017, 2, . | 1.7 | 112 |
| 52 | A Fatty Acid Oxidation-Dependent Metabolic Shift Regulates Adult Neural Stem Cell Activity. Cell Reports, 2017, 20, 2144-2155. | 2.9 | 247 |
| 53 | 2-Deoxy-D-glucose Restore Glucocorticoid Sensitivity in Acute Lymphoblastic Leukemia via Modification of N-Linked Glycosylation in an Oxygen Tension-Independent Manner. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-15. | 1.9 | 4 |
| 54 | Metabolic network segmentation: A probabilistic graphical modeling approach to identify the sites and sequential order of metabolic regulation from non-targeted metabolomics data. PLoS Computational Biology, 2017, 13, e1005577. | 1.5 | 10 |

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|---|---|---|---|
| 55 | Metabolomic Profiling of Bradyrhizobium diazoefficiens-Induced Root Nodules Reveals Both Host Plant-Specific and Developmental Signatures. International Journal of Molecular Sciences, 2016, 17, 815. | 1.8 | 52 |
| 56 | A Genome-Scale Database and Reconstruction of Caenorhabditis elegans Metabolism. Cell Systems, 2016, 2, 312-322. | 2.9 | 46 |
| 57 | The Yeast Cyclin-Dependent Kinase Routes Carbon Fluxes to Fuel Cell Cycle Progression. Molecular Cell, 2016, 62, 532-545. | 4.5 | 100 |
| 58 | L-Arginine Modulates T Cell Metabolism and Enhances Survival and Anti-tumor Activity. Cell, 2016, 167, 829-842.e13. | 13.5 | 1,077 |
| 59 | Systems proteomics of liver mitochondria function. Science, 2016, 352, aad0189. | 6.0 | 257 |
| 60 | LRH-1-dependent programming of mitochondrial glutamine processing drives liver cancer. Genes and Development, 2016, 30, 1255-1260. | 2.7 | 56 |
| 61 | SUMOFLUX: A Generalized Method for Targeted 13C Metabolic Flux Ratio Analysis. PLoS Computational Biology, 2016, 12, e1005109. | 1.5 | 40 |
| 62 | Embryonic Lethality of Mitochondrial Pyruvate Carrier 1 Deficient Mouse Can Be Rescued by a Ketogenic Diet. PLoS Genetics, 2016, 12, e1006056. | 1.5 | 56 |
| 63 | Genome-wide RNAi Screening Identifies Protein Modules Required for 40S Subunit Synthesis in Human Cells. Cell Reports, 2015, 13, 2879-2891. | 2.9 | 90 |
| 64 | Dynamic exometabolome analysis reveals active metabolic pathways in nonâ€replicating mycobacteria. Environmental Microbiology, 2015, 17, 4802-4815. | 1.8 | 40 |
| 65 | Functional screening identifies <scp>MCT4</scp> as a key regulator of breast cancer cell metabolism and survival. Journal of Pathology, 2015, 237, 152-165. | 2.1 | 73 |
| 66 | Defining the Metabolome: Size, Flux, and Regulation. Molecular Cell, 2015, 58, 699-706. | 4.5 | 234 |
| 67 | Gut Microbiota Orchestrates Energy Homeostasis during Cold. Cell, 2015, 163, 1360-1374. | 13.5 | 581 |
| 68 | Nrf2 Activation Promotes Keratinocyte Survival during Early Skin Carcinogenesis via Metabolic Alterations. Cancer Research, 2015, 75, 4817-4829. | 0.4 | 40 |
| 69 | A genetically encoded FÃ¶rster resonance energy transfer sensor for monitoring in vivo trehalose-6-phosphate dynamics. Analytical Biochemistry, 2015, 474, 1-7. | 1.1 | 28 |
| 70 | A roadmap for interpreting 13 C metabolite labeling patterns from cells. Current Opinion in Biotechnology, 2015, 34, 189-201. | 3.3 | 513 |
| 71 | HIF-driven SF3B1 induces KHK-C to enforce fructolysis and heart disease. Nature, 2015, 522, 444-449. | 13.7 | 144 |
| 72 | Acute Activation of Oxidative Pentose Phosphate Pathway as First-Line Response to Oxidative Stress in Human Skin Cells. Molecular Cell, 2015, 59, 359-371. | 4.5 | 294 |

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|---|---|---|---|
| 73 | Editorial overview: Analytical biotechnology. Current Opinion in Biotechnology, 2015, 31, iv-vi. | 3.3 | 0 |
| 74 | Rapid, randomized development of genetically encoded FRET sensors for small molecules. Analyst, The, 2015, 140, 4540-4548. | 1.7 | 17 |
| 75 | Monitoring Mitochondrial Pyruvate Carrier Activity in Real Time Using a BRET-Based Biosensor: Investigation of the Warburg Effect. Molecular Cell, 2015, 59, 491-501. | 4.5 | 76 |
| 76 | Real-time metabolome profiling of the metabolic switch between starvation and growth. Nature Methods, 2015, 12, 1091-1097. | 9.0 | 209 |
| 77 | Branched-chain amino acid catabolism is a conserved regulator of physiological ageing. Nature Communications, 2015, 6, 10043. | 5.8 | 132 |
| 78 | Biological insights through nontargeted metabolomics. Current Opinion in Biotechnology, 2015, 34, 1-8. | 3.3 | 115 |
| 79 | High-throughput discovery metabolomics. Current Opinion in Biotechnology, 2015, 31, 73-78. | 3.3 | 203 |
| 80 | Multilayered Genetic and Omics Dissection of Mitochondrial Activity in a Mouse Reference Population. Cell, 2014, 158, 1415-1430. | 13.5 | 222 |
| 81 | D-Glucosamine supplementation extends life span of nematodes and of ageing mice. Nature Communications, 2014, 5, 3563. | 5.8 | 181 |
| 82 | Quantification and Mass Isotopomer Profiling of Î±-Keto Acids in Central Carbon Metabolism. Analytical Chemistry, 2014, 86, 3232-3237. | 3.2 | 60 |
| 83 | Nonâ€stationary ‹sup›13‹/sup›Câ€metabolic flux ratio analysis. Biotechnology and Bioengineering, 2013, 110, 3164-3176. | 1.7 | 41 |
| 84 | Nontargeted Profiling of Coenzyme A thioesters in biological samples by tandem mass spectrometry. Analytical Chemistry, 2013, 85, 8284-8290. | 3.2 | 24 |
| 85 | Temporal systemâ€level organization of the switch from glycolytic to gluconeogenic operation in yeast. Molecular Systems Biology, 2013, 9, 651. | 3.2 | 138 |
| 86 | The integrated response of primary metabolites to gene deletions and the environment. Molecular BioSystems, 2013, 9, 440. | 2.9 | 19 |
| 87 | Metabolic control of adult neural stem cell activity by Fasn-dependent lipogenesis. Nature, 2013, 493, 226-230. | 13.7 | 448 |
| 88 | Metabolite Identification through Machine Learningâ€" Tackling CASMI Challenge Using FingerID. Metabolites, 2013, 3, 484-505. | 1.3 | 24 |
| 89 | Identification and Functional Expression of the Mitochondrial Pyruvate Carrier. Science, 2012, 337, 93-96. | 6.0 | 588 |
| 90 | Functional Metabolic Screen Identifies 6-Phosphofructo-2-Kinase/Fructose-2,6-Biphosphatase 4 as an Important Regulator of Prostate Cancer Cell Survival. Cancer Discovery, 2012, 2, 328-343. | 7.7 | 174 |

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|---|---|---|---|
| 91 | Multidimensional Optimality of Microbial Metabolism. Science, 2012, 336, 601-604. | 6.0 | 360 |
| 92 | Metabolite identification and molecular fingerprint prediction through machine learning. Bioinformatics, 2012, 28, 2333-2341. | 1.8 | 143 |
| 93 | A high-throughput metabolomics method to predict high concentration cytotoxicity of drugs from low concentration profiles. Metabolomics, 2012, 8, 433-443. | 1.4 | 10 |
| 94 | Collisional fragmentation of central carbon metabolites in LCâ€MS/MS increases precision of <sup>13</sup>C metabolic flux analysis. Biotechnology and Bioengineering, 2012, 109, 763-771. | 1.7 | 93 |
| 95 | High-Throughput, Accurate Mass Metabolome Profiling of Cellular Extracts by Flow Injectionâ€“Time-of-Flight Mass Spectrometry. Analytical Chemistry, 2011, 83, 7074-7080. | 3.2 | 324 |
| 96 | 13C metabolic flux analysis in complex systems. Current Opinion in Biotechnology, 2011, 22, 103-108. | 3.3 | 146 |
| 97 | The oxygen sensor PHD3 limits glycolysis under hypoxia via direct binding to pyruvate kinase. Cell Research, 2011, 21, 983-986. | 5.7 | 26 |
| 98 | Engineering Genetically Encoded Nanosensors for Real-Time In Vivo Measurements of Citrate Concentrations. PLoS ONE, 2011, 6, e28245. | 1.1 | 55 |
| 99 | Dynamic flux responses in riboflavin overproducing Bacillus subtilis to increasing glucose limitation in fedâ€batch culture. Biotechnology and Bioengineering, 2010, 105, 795-804. | 1.7 | 29 |
| 100 | Tradeoff between enzyme and metabolite efficiency maintains metabolic homeostasis upon perturbations in enzyme capacity. Molecular Systems Biology, 2010, 6, 356. | 3.2 | 159 |
| 101 | Ultrahigh Performance Liquid Chromatographyâ^'Tandem Mass Spectrometry Method for Fast and Robust Quantification of Anionic and Aromatic Metabolites. Analytical Chemistry, 2010, 82, 4403-4412. | 3.2 | 317 |
| 102 | Integrated multilaboratory systems biology reveals differences in protein metabolism between two reference yeast strains. Nature Communications, 2010, 1, 145. | 5.8 | 100 |
| 103 | Differential glucose repression in common yeast strains in response to HXK2 deletion. FEMS Yeast Research, 2010, 10, 322-332. | 1.1 | 52 |
| 104 | 13C-based metabolic flux analysis. Nature Protocols, 2009, 4, 878-892. | 5.5 | 520 |
| 105 | Cross-Platform Comparison of Methods for Quantitative Metabolomics of Primary Metabolism. Analytical Chemistry, 2009, 81, 2135-2143. | 3.2 | 290 |
| 106 | Novel biological insights through metabolomics and 13C-flux analysis. Current Opinion in Microbiology, 2009, 12, 553-558. | 2.3 | 120 |
| 107 | High-Throughput Quantitative Metabolomics: Workflow for Cultivation, Quenching, and Analysis of Yeast in a Multiwell Format. Analytical Chemistry, 2009, 81, 3623-3629. | 3.2 | 86 |
| 108 | Screening of Bacillus subtilis transposon mutants with altered riboflavin production. Metabolic Engineering, 2008, 10, 216-226. | 3.6 | 53 |

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|---|---|---|---|
| 109 | From biomarkers to integrated network responses. Nature Biotechnology, 2008, 26, 1090-1092. | 9.4 | 12 |
| 110 | anNET: a tool for network-embedded thermodynamic analysis of quantitative metabolome data. BMC Bioinformatics, 2008, 9, 199. | 1.2 | 70 |
| 111 | An analytic and systematic framework for estimating metabolic flux ratios from 13C tracer experiments. BMC Bioinformatics, 2008, 9, 266. | 1.2 | 40 |
| 112 | Deficiency in glutamine but not glucose induces MYC-dependent apoptosis in human cells. Journal of Cell Biology, 2007, 178, 93-105. | 2.3 | 599 |
| 113 | GENETICS: Getting Closer to the Whole Picture. Science, 2007, 316, 550-551. | 6.0 | 222 |
| 114 | Toward metabolome-based 13C flux analysis: a universal tool for measuring in vivo metabolic activity. Topics in Current Genetics, 2007, , 129-157. | 0.7 | 4 |
| 115 | YtsJ Has the Major Physiological Role of the Four Paralogous Malic Enzyme Isoforms in Bacillus subtilis. Journal of Bacteriology, 2006, 188, 4727-4736. | 1.0 | 52 |
| 116 | FiatFlux--a software for metabolic flux analysis from 13C-glucose experiments. BMC Bioinformatics, 2005, 6, 209. | 1.2 | 216 |
| 117 | Transient expression and flux changes during a shift from high to low riboflavin production in continuous cultures ofBacillus subtilis. Biotechnology and Bioengineering, 2005, 89, 219-232. | 1.7 | 32 |
| 118 | Fluxome Profiling in Microbes. , 2005, , 307-322. | | 3 |
| 119 | The Bacillus subtilis yqjI Gene Encodes the NADP+-Dependent 6-P-Gluconate Dehydrogenase in the Pentose Phosphate Pathway. Journal of Bacteriology, 2004, 186, 4528-4534. | 1.0 | 56 |
| 120 | The phosphoenolpyruvate carboxykinase also catalyzes C3 carboxylation at the interface of glycolysis and the TCA cycle of Bacillus subtilis. Metabolic Engineering, 2004, 6, 277-284. | 3.6 | 49 |
| 121 | High-throughput metabolic flux analysis based on gas chromatographyâ€“mass spectrometry derived 13C constraints. Analytical Biochemistry, 2004, 325, 308-316. | 1.1 | 276 |
| 122 | Model-independent fluxome profiling from 2H and 13C experiments for metabolic variant discrimination. Genome Biology, 2004, 5, R99. | 13.9 | 30 |
| 123 | Knockout of the high-coupling cytochromeaa3oxidase reduces TCA cycle fluxes inBacillus subtilis. FEMS Microbiology Letters, 2003, 226, 121-126. | 0.7 | 39 |
| 124 | Reducing maintenance metabolism by metabolic engineering of respiration improves riboflavin production by Bacillus subtilis. Metabolic Engineering, 2003, 5, 49-55. | 3.6 | 63 |
| 125 | Genome Engineering Reveals Large Dispensable Regions in Bacillus subtilis. Molecular Biology and Evolution, 2003, 20, 2076-2090. | 3.5 | 188 |
| 126 | Bacterial response to acetate challenge: a comparison of tolerance among species. Applied Microbiology and Biotechnology, 2000, 54, 243-247. | 1.7 | 56 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Hippocampal neural stem cells rapidly change their metabolic profile during neuronal differentiation   in cell culture  . Matters Select, 0, , . | 3.0 | 0 |