# Eleftherios T Papoutsakis

List of Publications by Year
in descending order



| 152 | 11,126 | 22548 61 | 37326 100 |
|---|---|---|---|
| papers | citations | h-index | g-index |
| 158 | 158 | 158 | 7547 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Recent advances toward the bioconversion of methane and methanol in synthetic methylotrophs. Metabolic Engineering, 2022, 71, 99-116. | 3.6 | 24 |
| 2 | Extracellular vesicles facilitate largeâ€scale dynamic exchange of proteins and RNA among cultured Chinese hamster ovary and human cells. Biotechnology and Bioengineering, 2022, 119, 1222-1238. | 1.7 | 18 |
| 3 | Cover Image, Volume 119, Number 4, April 2022. Biotechnology and Bioengineering, 2022, 119, . | 1.7 | 0 |
| 4 | 13C-metabolic flux analysis of Clostridium ljungdahlii illuminates its core metabolism under mixotrophic culture conditions. Metabolic Engineering, 2022, 72, 161-170. | 3.6 | 6 |
| 5 | Cover Image, Volume 119, Number 5, May 2022. Biotechnology and Bioengineering, 2022, 119, . | 1.7 | 0 |
| 6 | miR-486-5p and miR-22-3p Enable Megakaryocytic Differentiation of Hematopoietic Stem and Progenitor Cells without Thrombopoietin. International Journal of Molecular Sciences, 2022, 23, 5355. | 1.8 | 10 |
| 7 | Regulatory interventions improve the biosynthesis of limiting amino acids from methanol carbon to improve synthetic methylotrophy in <i>Escherichia coli</i>. Biotechnology and Bioengineering, 2021, 118, 43-57. | 1.7 | 8 |
| 8 | Adaptive laboratory evolution of methylotrophic Escherichia coli enables synthesis of all amino acids from methanol-derived carbon. Applied Microbiology and Biotechnology, 2021, 105, 869-876. | 1.7 | 14 |
| 9 | Improving the Methanol Tolerance of an Escherichia coli Methylotroph via Adaptive Laboratory Evolution Enhances Synthetic Methanol Utilization. Frontiers in Microbiology, 2021, 12, 638426. | 1.5 | 18 |
| 10 | Modeling Growth Kinetics, Interspecies Cell Fusion, and Metabolism of a Clostridium acetobutylicum/Clostridium ljungdahlii Syntrophic Coculture. MSystems, 2021, 6, . | 1.7 | 6 |
| 11 | Anaerobic fluorescent reporters for cell identification, microbial cell biology and high-throughput screening of microbiota and genomic libraries. Current Opinion in Biotechnology, 2021, 71, 151-163. | 3.3 | 14 |
| 12 | Improving synthetic methylotrophy via dynamic formaldehyde regulation of pentose phosphate pathway genes and redox perturbation. Metabolic Engineering, 2020, 57, 247-255. | 3.6 | 24 |
| 13 | Development of Strong Anaerobic Fluorescent Reporters for Clostridium acetobutylicum and Clostridium ljungdahlii Using HaloTag and SNAP-tag Proteins. Applied and Environmental Microbiology, 2020, 86, . | 1.4 | 21 |
| 14 | Interspecies Microbial Fusion and Large-Scale Exchange of Cytoplasmic Proteins and RNA in a Syntrophic <i>Clostridium</i> Coculture. MBio, 2020, 11, . | 1.8 | 36 |
| 15 | Engineering Escherichia coli for methanol-dependent growth on glucose for metabolite production. Metabolic Engineering, 2020, 60, 45-55. | 3.6 | 32 |
| 16 | Triggering the stringent response enhances synthetic methanol utilization in Escherichia coli. Metabolic Engineering, 2020, 61, 1-10. | 3.6 | 13 |
| 17 | Human megakaryocytic microparticles induce de novo platelet biogenesis in a wild-type murine model. Blood Advances, 2020, 4, 804-814. | 2.5 | 21 |
| 18 | A Strongly Fluorescing Anaerobic Reporter and Protein-Tagging System for <i>Clostridium</i> Organisms Based on the Fluorescence-Activating and Absorption-Shifting Tag Protein (FAST). Applied and Environmental Microbiology, 2019, 85, . | 1.4 | 52 |

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| 19 | Extracellular vesicles: exosomes, microparticles, their parts, and their targets to enable their biomanufacturing and clinical applications. Current Opinion in Biotechnology, 2019, 60, 89-98. | 3.3 | 123 |
| 20 | Direct cell-to-cell exchange of matter in a synthetic Clostridium syntrophy enables CO2 fixation, superior metabolite yields, and an expanded metabolic space. Metabolic Engineering, 2019, 52, 9-19. | 3.6 | 70 |
| 21 | Deletion of four genes in Escherichia coli enables preferential consumption of xylose and secretion of glucose. Metabolic Engineering, 2019, 52, 168-177. | 3.6 | 24 |
| 22 | Functional Expression of the Clostridium ljungdahlii Acetyl-Coenzyme A Synthase in Clostridium acetobutylicum as Demonstrated by a Novel<i>In Vivo</i>CO Exchange Activity En Route to Heterologous Installation of a Functional Wood-Ljungdahl Pathway. Applied and Environmental Microbiology, 2018, 84, . | 1.4 | 24 |
| 23 | Engineering the bioconversion of methane and methanol to fuels and chemicals in native and synthetic methylotrophs. Current Opinion in Biotechnology, 2018, 50, 81-93. | 3.3 | 94 |
| 24 | Expression of heterologous non-oxidative pentose phosphate pathway from Bacillus methanolicus and phosphoglucose isomerase deletion improves methanol assimilation and metabolite production by a synthetic Escherichia coli methylotroph. Metabolic Engineering, 2018, 45, 75-85. | 3.6 | 74 |
| 25 | Engineering human megakaryocytic microparticles for targeted delivery of nucleic acids to hematopoietic stem and progenitor cells. Science Advances, 2018, 4, eaau6762. | 4.7 | 33 |
| 26 | Role of p53 and transcription-independent p53-induced apoptosis in shear-stimulated megakaryocytic maturation, particle generation, and platelet biogenesis. PLoS ONE, 2018, 13, e0203991. | 1.1 | 12 |
| 27 | RNAseqâ€based transcriptome assembly of <i>Clostridium acetobutylicum</i> for functional genome annotation and discovery. AIChE Journal, 2018, 64, 4271-4280. | 1.8 | 6 |
| 28 | Engineering Clostridium organisms as microbial cell-factories: challenges & opportunities. Metabolic Engineering, 2018, 50, 173-191. | 3.6 | 56 |
| 29 | Small and Low but Potent: the Complex Regulatory Role of the Small RNA SolB in Solventogenesis in Clostridium acetobutylicum. Applied and Environmental Microbiology, 2018, 84, . | 1.4 | 12 |
| 30 | Sort-Seq Approach to Engineering a Formaldehyde-Inducible Promoter for Dynamically Regulated <i>Escherichia coli</i> Growth on Methanol. ACS Synthetic Biology, 2017, 6, 1584-1595. | 1.9 | 70 |
| 31 | Heterologous Expression of the Clostridium carboxidivorans CO Dehydrogenase Alone or Together with the Acetyl Coenzyme A Synthase Enables both Reduction of CO <sub>2</sub> and Oxidation of CO by Clostridium acetobutylicum. Applied and Environmental Microbiology, 2017, 83, . | 1.4 | 21 |
| 32 | In vitro methanol production from methyl coenzyme M using the Methanosarcina barkeri MtaABC protein complex. Biotechnology Progress, 2017, 33, 1243-1249. | 1.3 | 10 |
| 33 | How do megakaryocytic microparticles target and deliver cargo to alter the fate of hematopoietic stem cells?. Journal of Controlled Release, 2017, 247, 1-18. | 4.8 | 58 |
| 34 | Engineering the biological conversion of methanol to specialty chemicals in Escherichia coli. Metabolic Engineering, 2017, 39, 49-59. | 3.6 | 137 |
| 35 | Megakaryocytic Maturation in Response to Shear Flow Is Mediated by the Activator Protein 1 (AP-1) Transcription Factor via Mitogen-activated Protein Kinase (MAPK) Mechanotransduction. Journal of Biological Chemistry, 2016, 291, 7831-7843. | 1.6 | 21 |
| 36 | Stable and enhanced gene expression in Clostridium acetobutylicum using synthetic untranslated regions with a stem-loop. Journal of Biotechnology, 2016, 230, 40-43. | 1.9 | 13 |

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| 37 | Engineering membrane and cell-wall programs for tolerance to toxic chemicals: Beyond solo genes. Current Opinion in Microbiology, 2016, 33, 56-66. | 2.3 | 66 |
| 38 | Scaffoldless engineered enzyme assembly for enhanced methanol utilization. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12691-12696. | 3.3 | 93 |
| 39 | CO2 fixation by anaerobic non-photosynthetic mixotrophy for improved carbon conversion. Nature Communications, 2016, 7, 12800. | 5.8 | 128 |
| 40 | Whole-genome sequence of an evolved Clostridium pasteurianum strain reveals Spo0A deficiency responsible for increased butanol production and superior growth. Biotechnology for Biofuels, 2015, 8, 227. | 6.2 | 35 |
| 41 | Expression of heterologous sigma factors enables functional screening of metagenomic and heterologous genomic libraries. Nature Communications, 2015, 6, 7045. | 5.8 | 55 |
| 42 | The Clostridium Sporulation Programs: Diversity and Preservation of Endospore Differentiation. Microbiology and Molecular Biology Reviews, 2015, 79, 19-37. | 2.9 | 155 |
| 43 | Editorial overview: Energy biotechnology. Current Opinion in Biotechnology, 2015, 33, viii-xi. | 3.3 | 2 |
| 44 | Synthetic methylotrophy: engineering the production of biofuels and chemicals based on the biology of aerobic methanol utilization. Current Opinion in Biotechnology, 2015, 33, 165-175. | 3.3 | 150 |
| 45 | Reassessing the Progress in the Production of Advanced Biofuels in the Current Competitive Environment and Beyond: What Are the Successes and Where Progress Eludes Us and Why. Industrial & Engineering Chemistry Research, 2015, 54, 10170-10182. | 1.8 | 24 |
| 46 | Building cellular pathways and programs enabled by the genetic diversity of allo-genomes and meta-genomes. Current Opinion in Biotechnology, 2015, 36, 16-31. | 3.3 | 1 |
| 47 | Capturing the response of Clostridium acetobutylicumto chemical stressors using a regulated genome-scale metabolic model. Biotechnology for Biofuels, 2014, 7, 144. | 6.2 | 56 |
| 48 | ÂK of Clostridium acetobutylicum Is the First Known Sporulation-Specific Sigma Factor with Two Developmentally Separated Roles, One Early and One Late in Sporulation. Journal of Bacteriology, 2014, 196, 287-299. | 1.0 | 48 |
| 49 | Overexpression of the Lactobacillus plantarum peptidoglycan biosynthesis murA2 gene increases the tolerance of Escherichia coli to alcohols and enhances ethanol production. Applied Microbiology and Biotechnology, 2014, 98, 8399-8411. | 1.7 | 23 |
| 50 | Shear enhances thrombopoiesis and formation of microparticles that induce megakaryocytic differentiation of stem cells. Blood, 2014, 124, 2094-2103. | 0.6 | 71 |
| 51 | Exploring the Capabilities of the Geobiosphere's Microbial Genome. AIChE Journal, 2013, 59, 688-698. | 1.8 | 5 |
| 52 | The Clostridium small RNome that responds to stress: the paradigm and importance of toxic metabolite stress in C. acetobutylicum. BMC Genomics, 2013, 14, 849. | 1.2 | 49 |
| 53 | Transcription factors and genetic circuits orchestrating the complex, multilayered response of Clostridium acetobutylicum to butanol and butyrate stress. BMC Systems Biology, 2013, 7, 120. | 3.0 | 65 |
| 54 | Three-Stage<i>Ex Vivo</i>Expansion of High-Ploidy Megakaryocytic Cells: Toward Large-Scale Platelet Production. Tissue Engineering - Part A, 2013, 19, 998-1014. | 1.6 | 55 |

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| 55 | Workflow for quantitative proteomic analysis of Clostridium acetobutylicum ATCC 824 using iTRAQ tags. Methods, 2013, 61, 269-276. | 1.9 | 19 |
| 56 | Stemâ€Cell Niche Based Comparative Analysis of Chemical and Nanoâ€mechanical Material Properties Impacting Ex Vivo Expansion and Differentiation of Hematopoietic and Mesenchymal Stem Cells. Advanced Healthcare Materials, 2013, 2, 25-42. | 3.9 | 63 |
| 57 | Synthetic tolerance: three noncoding small RNAs, DsrA, ArcZ and RprA, acting supra-additively against acid stress. Nucleic Acids Research, 2013, 41, 8726-8737. | 6.5 | 102 |
| 58 | Novel System for Efficient Isolation of Clostridium Double-Crossover Allelic Exchange Mutants Enabling Markerless Chromosomal Gene Deletions and DNA Integration. Applied and Environmental Microbiology, 2012, 78, 8112-8121. | 1.4 | 113 |
| 59 | Proposed megakaryocytic regulon of p53: the genes engaged to control cell cycle and apoptosis during megakaryocytic differentiation. Physiological Genomics, 2012, 44, 638-650. | 1.0 | 26 |
| 60 | Clostridia: the importance of their exceptional substrate and metabolite diversity for biofuel and biorefinery applications. Current Opinion in Biotechnology, 2012, 23, 364-381. | 3.3 | 364 |
| 61 | Stoichiometric and energetic analyses of non-photosynthetic CO2-fixation pathways to support synthetic biology strategies for production of fuels and chemicals. Current Opinion in Chemical Engineering, 2012, 1, 380-395. | 3.8 | 204 |
| 62 | Role of tumor suppressor p53 in megakaryopoiesis and platelet function. Experimental Hematology, 2012, 40, 131-142.e4. | 0.2 | 33 |
| 63 | The Bleeding Defect Exhibited by Aryl Hydrocarbon Receptor-Null Mice Is Due to Defective Collagen-Dependent Outside-in Signaling. Blood, 2012, 120, 3294-3294. | 0.6 | 0 |
| 64 | Inactivation of Ïƒ <sup>E</sup> and Ïƒ <sup>G</sup> in <i>Clostridium acetobutylicum</i> Illuminates Their Roles in Clostridial-Cell-Form Biogenesis, Granulose Synthesis, Solventogenesis, and Spore Morphogenesis. Journal of Bacteriology, 2011, 193, 1414-1426. | 1.0 | 78 |
| 65 | The aryl hydrocarbon receptor (AHR) transcription factor regulates megakaryocytic polyploidization. British Journal of Haematology, 2011, 152, 469-484. | 1.2 | 37 |
| 66 | SpoIIE Is Necessary for Asymmetric Division, Sporulation, and Expression of Ïƒ <sup>F</sup> , Ïƒ <sup>E</sup> , and Ïƒ <sup>G</sup> but Does Not Control Solvent Production in Clostridium acetobutylicum ATCC 824. Journal of Bacteriology, 2011, 193, 5130-5137. | 1.0 | 47 |
| 67 | Inactivation of Ïƒ <sup>F</sup> in Clostridium acetobutylicum ATCC 824 Blocks Sporulation Prior to Asymmetric Division and Abolishes Ïƒ <sup>E</sup> and Ïƒ <sup>G</sup> Protein Expression but Does Not Block Solvent Formation. Journal of Bacteriology, 2011, 193, 2429-2440. | 1.0 | 62 |
| 68 | Small RNAs in the Genus<i>Clostridium</i>. MBio, 2011, 2, e00340-10. | 1.8 | 75 |
| 69 | The Aryl Hydrocarbon Receptor Influences Multiple Stages of Megakaryocyte Differentiation. Blood, 2011, 118, 1298-1298. | 0.6 | 0 |
| 70 | The Importance of Matrix Elasticity and Shear Force on Megakaryocytic Differentiation. Blood, 2011, 118, 1329-1329. | 0.6 | 9 |
| 71 | Flow cytometry for bacteria: enabling metabolic engineering, synthetic biology and the elucidation of complex phenotypes. Current Opinion in Biotechnology, 2010, 21, 85-99. | 3.3 | 137 |
| 72 | Metabolic flux analysis of embryonic stem cells using three distinct differentiation protocols and comparison to gene expression patterns. Biotechnology Progress, 2010, 26, 1222-1229. | 1.3 | 11 |

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| 73 | Metabolite stress and tolerance in the production of biofuels and chemicals: Geneâ€expressionâ€based systems analysis of butanol, butyrate, and acetate stresses in the anaerobe <i>Clostridium acetobutylicum</i>. Biotechnology and Bioengineering, 2010, 105, 1131-1147. | 1.7 | 191 |
| 74 | A genomic-library based discovery of a novel, possibly synthetic, acid-tolerance mechanism in Clostridium acetobutylicum involving non-coding RNAs and ribosomal RNA processing. Metabolic Engineering, 2010, 12, 268-281. | 3.6 | 70 |
| 75 | A comparative view of metabolite and substrate stress and tolerance in microbial bioprocessing: From biofuels and chemicals, to biocatalysis and bioremediation. Metabolic Engineering, 2010, 12, 307-331. | 3.6 | 478 |
| 76 | Hes1 Expression Impacts Megakaryocytic Polyploidization and May Contribute to the Platelet Defects Found In Aryl Hydrocarbon Receptor (AhR)-Null Mice.. Blood, 2010, 116, 2612-2612. | 0.6 | 0 |
| 77 | Mechanistic studies on the effects of nicotinamide on megakaryocytic polyploidization and the roles of NAD+ levels and SIRT inhibition. Experimental Hematology, 2009, 37, 1340-1352.e3. | 0.2 | 38 |
| 78 | Aldehydeâ€"alcohol dehydrogenase and/or thiolase overexpression coupled with CoA transferase downregulation lead to higher alcohol titers and selectivity in <i>Clostridium acetobutylicum</i> fermentations. Biotechnology and Bioengineering, 2009, 102, 38-49. | 1.7 | 123 |
| 79 | Metabolic engineering of <i>Clostridium acetobutylicum</i> M5 for highly selective butanol production. Biotechnology Journal, 2009, 4, 1432-1440. | 1.8 | 117 |
| 80 | Engineering solventogenic clostridia. Current Opinion in Biotechnology, 2008, 19, 420-429. | 3.3 | 302 |
| 81 | Genomeâ€scale model for <i>Clostridium acetobutylicum</i>: Part II. Development of specific proton flux states and numerically determined subâ€systems. Biotechnology and Bioengineering, 2008, 101, 1053-1071. | 1.7 | 73 |
| 82 | Genomeâ€scale model for <i>Clostridium acetobutylicum</i>: Part I. Metabolic network resolution and analysis. Biotechnology and Bioengineering, 2008, 101, 1036-1052. | 1.7 | 166 |
| 83 | Metabolic engineering of the non-sporulating, non-solventogenic Clostridium acetobutylicum strain M5 to produce butanol without acetone demonstrate the robustness of the acid-formation pathways and the importance of the electron balance. Metabolic Engineering, 2008, 10, 321-332. | 3.6 | 152 |
| 84 | Comparative Transcriptional Analysis of Embryoid Body Versus Two-Dimensional Differentiation of Murine Embryonic Stem Cells. Tissue Engineering - Part A, 2008, 14, 1603-1614. | 1.6 | 11 |
| 85 | The transcriptional program underlying the physiology of clostridial sporulation. Genome Biology, 2008, 9, R114. | 13.9 | 159 |
| 86 | Tumor Suppressor Protein p53 Regulates Megakaryocytic Polyploidization and Apoptosis. Journal of Biological Chemistry, 2008, 283, 15589-15600. | 1.6 | 38 |
| 87 | Development and Application of Flow-Cytometric Techniques for Analyzing and Sorting Endospore-Forming Clostridia. Applied and Environmental Microbiology, 2008, 74, 7497-7506. | 1.4 | 73 |
| 88 | Gene Ontology-driven transcriptional analysis of CD34<sup>+</sup>cell-initiated megakaryocytic cultures identifies new transcriptional regulators of megakaryopoiesis. Physiological Genomics, 2008, 33, 159-169. | 1.0 | 23 |
| 89 | Tumor Suppressor Protein p53 Affects Megakaryocytic Maturation: In Vivo and Ex Vivo Post-Translational Modification Studies. Blood, 2008, 112, 2443-2443. | 0.6 | 1 |
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| 91 | A General Framework for Designing and Validating Oligomer-Based DNA Microarrays and Its Application to Clostridium acetobutylicum. Applied and Environmental Microbiology, 2007, 73, 4631-4638. | 1.4 | 22 |
| 92 | A systems-biology analysis of isogenic megakaryocytic and granulocytic cultures identifies new molecular components of megakaryocytic apoptosis. BMC Genomics, 2007, 8, 384. | 1.2 | 18 |
| 93 | Comparative, genome-scale transcriptional analysis of CHRF-288-11 and primary human megakaryocytic cell cultures provides novel insights into lineage-specific differentiation. Experimental Hematology, 2007, 35, 476-489.e23. | 0.2 | 42 |
| 94 | Nicotinamide (vitamin B3) increases the polyploidisation and proplatelet formation of cultured primary human megakaryocytes. British Journal of Haematology, 2006, 135, 554-566. | 1.2 | 63 |
| 95 | A comparative genomic view of clostridial sporulation and physiology. Nature Reviews Microbiology, 2005, 3, 969-978. | 13.6 | 295 |
| 96 | Transcriptional Program of Early Sporulation and Stationary-Phase Events in Clostridium acetobutylicum. Journal of Bacteriology, 2005, 187, 7103-7118. | 1.0 | 142 |
| 97 | Transcriptional Analysis of spo0A Overexpression in Clostridium acetobutylicum and Its Effect on the Cell's Response to Butanol Stress. Journal of Bacteriology, 2004, 186, 1959-1971. | 1.0 | 161 |
| 98 | Transcriptional Analysis of Butanol Stress and Tolerance in Clostridium acetobutylicum. Journal of Bacteriology, 2004, 186, 2006-2018. | 1.0 | 212 |
| 99 | Overexpression of groESL in Clostridium acetobutylicum Results in Increased Solvent Production and Tolerance, Prolonged Metabolism, and Changes in the Cell's Transcriptional Program. Applied and Environmental Microbiology, 2003, 69, 4951-4965. | 1.4 | 339 |
| 100 | Design of Antisense RNA Constructs for Downregulation of the Acetone Formation Pathway of Clostridium acetobutylicum. Journal of Bacteriology, 2003, 185, 1923-1934. | 1.0 | 159 |
| 101 | DNA Array-Based Transcriptional Analysis of Asporogenous, Nonsolventogenic Clostridium acetobutylicum Strains SKO1 and M5. Journal of Bacteriology, 2003, 185, 4539-4547. | 1.0 | 104 |
| 102 | Antisense RNA Downregulation of Coenzyme A Transferase Combined with Alcohol-Aldehyde Dehydrogenase Overexpression Leads to Predominantly Alcohologenic Clostridium acetobutylicum Fermentations. Journal of Bacteriology, 2003, 185, 3644-3653. | 1.0 | 132 |
| 103 | Northern, Morphological, and Fermentation Analysis of spo0A Inactivation and Overexpression in Clostridium acetobutylicum ATCC 824. Journal of Bacteriology, 2002, 184, 3586-3597. | 1.0 | 212 |
| 104 | Extracellular pH Affects the Proliferation of Cultured Human T Cells and Their Expression of the Interleukin-2 Receptor. Journal of Immunotherapy, 2000, 23, 669-674. | 1.2 | 25 |
| 105 | Sparging and agitation-induced injury of cultured animals cells: Do cell-to-bubble interactions in the bulk liquid injure cells?. , 2000, 51, 399-409. |  | 42 |
| 106 | Characterization of recombinant strains of theClostridium acetobutylicum butyrate kinase inactivation mutant: Need for new phenomenological models for solventogenesis and butanol inhibition?. Biotechnology and Bioengineering, 2000, 67, 1-11. | 1.7 | 167 |
| 107 | Equations and calculations for fermentations of butyric acid bacteria. Biotechnology and Bioengineering, 2000, 67, 813-826. | 1.7 | 15 |
| 108 | Culture of human T cells in stirred bioreactors for cellular immunotherapy applications: Shear, proliferation, and the IL-2 receptor. , 2000, 68, 328-338. |  | 53 |

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| 109 | Characterization of recombinant strains of the Clostridium acetobutylicum butyrate kinase inactivation mutant: Need for new phenomenological models for solventogenesis and butanol inhibition?. , 2000, 67, 1. | | 2 |
| 110 | Development and Characterization of a Gene Expression Reporter System for Clostridium acetobutylicum ATCC 824. Applied and Environmental Microbiology, 1999, 65, 3793-3799. | 1.4 | 109 |
| 111 | Regulation of the sol Locus Genes for Butanol and Acetone Formation in Clostridium acetobutylicum ATCC 824 by a Putative Transcriptional Repressor. Journal of Bacteriology, 1999, 181, 319-330. | 1.0 | 95 |
| 112 | Increased agitation intensity increases CD13 receptor surface content and mRNA levels, and alters the metabolism of HL60 cells cultured in stirred tank bioreactors. , 1998, 60, 239-250. | | 47 |
| 113 | Effects of methocel A15LV, polyethylene glycol, and polyvinyl alcohol on CD13 and CD33 receptor surface content and metabolism of HL60 cells cultured in stirred tank bioreactors. , 1998, 60, 251-258. | | 5 |
| 114 | Serum increases the CD13 receptor expression, reduces the transduction of fluid-mechanical forces, and alters the metabolism of HL60 cells cultured in agitated bioreactors. , 1998, 60, 259-268. | | 14 |
| 115 | Express together and conquer. Nature Biotechnology, 1998, 16, 416-417. | 9.4 | 17 |
| 116 | Sparging and agitation-induced injury of cultured animals cells: Do cell-to-bubble interactions in the bulk liquid injure cells?. , 1996, 51, 399. | | 24 |
| 117 | Analysis of cell-to-bubble attachment in sparged bioreactors in the presence of cell-protecting additives. Biotechnology and Bioengineering, 1995, 47, 407-419. | 1.7 | 76 |
| 118 | Interfacial properties of cell culture media with cell-protecting additives. Biotechnology and Bioengineering, 1995, 47, 420-430. | 1.7 | 55 |
| 119 | Ammonia affects the glycosylation patterns of recombinant mouse placental lactogen-I by chinese hamster ovary cells in a pH-dependent manner. Biotechnology and Bioengineering, 1994, 43, 505-514. | 1.7 | 123 |
| 120 | Serum-free media for cultures of primitive and mature hematopoietic cells. Biotechnology and Bioengineering, 1994, 43, 706-733. | 1.7 | 38 |
| 121 | Host-plasmid interactions in recombinant strains ofClostridium acetobutylicumATCC 824. FEMS Microbiology Letters, 1994, 123, 335-341. | 0.7 | 13 |
| 122 | Fluid-mechanical forces in agitated bioreactors reduce the CD13 and CD33 surface protein content of HL60 cells. Biotechnology and Bioengineering, 1993, 41, 868-877. | 1.7 | 19 |
| 123 | Metabolic engineering ofClostridium acetobutylicum ATCC 824 for increased solvent production by enhancement of acetone formation enzyme activities using a synthetic acetone operon. Biotechnology and Bioengineering, 1993, 42, 1053-1060. | 1.7 | 98 |
| 124 | Expansion of Primitive Human Hematopoietic Progenitors in a Perfusion Bioreactor System with IL-3, IL-6, and Stem Cell Factor. Bio/technology, 1993, 11, 358-363. | 1.9 | 94 |
| 125 | Culture pH Affects Expression Rates and Glycosylation of Recombinant Mouse Placental Lactogen Proteins by Chinese Hamster Ovary (CHO) Cells. Nature Biotechnology, 1993, 11, 720-724. | 9.4 | 115 |
| 126 | Expression of Cloned Homologous Fermentative Genes in Clostridium Acetobutylicum ATCC 824. Nature Biotechnology, 1992, 10, 190-195. | 9.4 | 209 |

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| 127 | Vector Construction, Transformation, and Gene Amplification in Clostridium acetobutylicum ATCC 824. Annals of the New York Academy of Sciences, 1992, 665, 39-51. | 1.8 | 32 |
| 128 | FLUID-MECHANICAL DAMAGE OF FREELY-SUSPENDED ANIMAL CELLS IN AGITATED BIOREACTORS: EFFECTS OF DEXTRAN, DERIVATIZED CELLULOSES AND POLYVINYL ALCOHOL. Chemical Engineering Communications, 1992, 118, 341-360. | 1.5 | 18 |
| 129 | Construction ofEscherichia coli-Clostridium acetobutylicum shuttle vectors and transformation ofClostridium acetobutylicum strains. Biotechnology Letters, 1992, 14, 427-432. | 1.1 | 33 |
| 130 | Agitation induced cell injury in microcarrier cultures. Protective effect of viscosity is agitation intensity dependent: Experiments and modeling. Biotechnology and Bioengineering, 1992, 39, 95-107. | 1.7 | 53 |
| 131 | Damaging agitation intensities increase DNA synthesis rate and alter cell-cycle phase distributions of CHO cells. Biotechnology and Bioengineering, 1992, 40, 978-990. | 1.7 | 51 |
| 132 | Shear sensitivity of hybridoma cells in batch, fed-batch, and continuous cultures. Biotechnology Progress, 1990, 6, 114-120. | 1.3 | 38 |
| 133 | Damage mechanisms of suspended animal cells in agitated bioreactors with and without bubble entrainment. Biotechnology and Bioengineering, 1990, 36, 476-483. | 1.7 | 231 |
| 134 | Modeling of contact-inhibited animal cell growth on flat surfaces and spheres. Biotechnology and Bioengineering, 1989, 33, 300-305. | 1.7 | 34 |
| 135 | Comparison between in vivo and in vitro enzyme activities in continuous and batch fermentations of Clostridium acetobutylicum. Applied Microbiology and Biotechnology, 1989, 30, 585. | 1.7 | 41 |
| 136 | Increased levels of ATP and NADH are associated with increased solvent production in continuous cultures of Clostridium acetobutylicum. Applied Microbiology and Biotechnology, 1989, 30, 450. | 1.7 | 81 |
| 137 | Enzymes limiting butanol and acetone formation in continuous and batch cultures of Clostridium acetobutylicum. Applied Microbiology and Biotechnology, 1989, 31-31, 435-444. | 1.7 | 31 |
| 138 | Solventogenesis inClostridium acetobutylicumfermentations related to carboxylic acid and proton concentrations. Biotechnology and Bioengineering, 1988, 32, 843-852. | 1.7 | 106 |
| 139 | Physical mechanisms of cell damage in microcarrier cell culture bioreactors. Biotechnology and Bioengineering, 1988, 32, 1001-1014. | 1.7 | 235 |
| 140 | Thiolase from <i>Clostridium acetobutylicum</i> ATCC 824 and Its Role in the Synthesis of Acids and Solvents. Applied and Environmental Microbiology, 1988, 54, 2717-2722. | 1.4 | 190 |
| 141 | Growth dynamics of a methylotroph (Methylomonas L3) in continuous cultures. I. Fast transients induced by methanol pulses and methanol accumulation. Biotechnology and Bioengineering, 1987, 29, 55-64. | 1.7 | 12 |
| 142 | Growth dynamics of a methylotroph (Methylomonas L3) in continuous cultures. II. Growth inhibition and comparison against an unstructured model. Biotechnology and Bioengineering, 1987, 29, 65-71. | 1.7 | 10 |
| 143 | Intracellular reaction rates, enzyme activities and biomass yields in Methylomonas L3: growth rate and substrate composition effects. Applied Microbiology and Biotechnology, 1986, 24, 435. | 1.7 | 10 |
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