## Pauline M Doran

List of Publications by Year in descending order

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| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Foreign protein degradation and instability in plants and plant tissue cultures. Trends in<br>Biotechnology, 2006, 24, 426-432.   | 9.3  | 253       |
| 2  | Foreign protein production in plant tissue cultures. Current Opinion in Biotechnology, 2000, 11, 199-204.   | 6.6  | 235       |
| 3  | Niâ€induced oxidative stress in roots of the Ni hyperaccumulator, Alyssum bertolonii. New Phytologist,<br>2002, 156, 205-215.   | 7.3  | 225       |
| 4  | Characterization of monoclonal antibody fragments produced by plant cells. Biotechnology and Bioengineering, 2001, 73, 338-346.   | 3.3  | 153       |
| 5  | Application of plant tissue cultures in phytoremediation research: Incentives and limitations.<br>Biotechnology and Bioengineering, 2009, 103, 60-76.                     | 3.3  | 151       |
| 6  | Hyperaccumulation of cadmium by hairy roots ofThlaspi caerulescens. , 2000, 67, 607-615.  |      | 147       |
| 7  | Strategies for Enhancing Monoclonal Antibody Accumulation in Plant Cell and Organ Cultures.<br>Biotechnology Progress, 2001, 17, 979-992.                                 | 2.6  | 126       |
| 8  | Chondrogenic differentiation of human adipose-derived stem cells in polyglycolic acid mesh scaffolds under dynamic culture conditions. Biomaterials, 2010, 31, 3858-3867. | 11.4 | 102       |
| 9  | Characteristics of growth and tropane alkaloid synthesis in Atropa belladonna roots transformed by Agrobacterium rhizogenes. Journal of Biotechnology, 1990, 16, 171-185. | 3.8  | 85        |
| 10 | Chondrogenesis and cartilage tissue engineering: the longer road to technology development. Trends in Biotechnology, 2012, 30, 166-176.                                   | 9.3  | 82        |
| 11 | Design of Mixing Systems for Plant Cell Suspensions in Stirred Reactors. Biotechnology Progress, 1999, 15, 319-335.   | 2.6  | 80        |
| 12 | Tissue engineering of human cartilage and osteochondral composites using recirculation bioreactors. Biomaterials, 2005, 26, 7012-7024.                                    | 11.4 | 73        |
| 13 | Tissue engineering of human cartilage in bioreactors using single and composite cell-seeded scaffolds. Biotechnology and Bioengineering, 2005, 91, 338-355.               | 3.3  | 71        |
| 14 | Oxygen requirements and mass transfer in hairy-root culture. Biotechnology and Bioengineering, 1994, 44, 880-887.   | 3.3  | 70        |
| 15 | Kinetic and stoichiometric analysis of hairy roots in a segmented bubble column reactor.<br>Biotechnology Progress, 1995, 11, 429-435.                                    | 2.6  | 67        |
| 16 | Mesenchymal Stem Cells Derived from Human Adipose Tissue. Methods in Molecular Biology, 2015, 1340,<br>53-64.   | 0.9  | 66        |
| 17 | Foreign protein production using plant cell and organ cultures: Advantages and limitations.<br>Biotechnology Advances, 2009, 27, 1036-1042.                               | 11.7 | 63        |
| 18 | Loss of secreted antibody from transgenic plant tissue cultures due to surface adsorption. Journal of Biotechnology, 2006, 122, 39-54.                                    | 3.8  | 50        |

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| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Injectable 3D Hydrogel Scaffold with Tailorable Porosity Postâ€Implantation. Advanced Healthcare<br>Materials, 2014, 3, 725-736.   | 7.6 | 46        |
| 20 | Production of steroidal alkaloids by hairy roots of Solanum aviculare and the effect of gibberellic acid. Plant Cell, Tissue and Organ Culture, 1994, 38, 93-102.  | 2.3 | 43        |
| 21 | Tissue engineering of cartilage using a mechanobioreactor exerting simultaneous mechanical shear<br>and compression to simulate the rolling action of articular joints. Biotechnology and<br>Bioengineering, 2012, 109, 1060-1073. | 3.3 | 43        |
| 22 | Effect of bacitracin on growth and monoclonal antibody production by tobacco hairy roots and cell suspensions. Biotechnology and Bioprocess Engineering, 1999, 4, 253-258.   | 2.6 | 42        |
| 23 | Foaming and cell flotation in suspended plant cell cultures and the effect of chemical antifoams.<br>Biotechnology and Bioengineering, 1994, 44, 481-488.  | 3.3 | 41        |
| 24 | Hyperaccumulation of Nickel by Hairy Roots of Alyssum Species: Comparison with Whole Regenerated<br>Plants. Biotechnology Progress, 2001, 17, 752-759.   | 2.6 | 40        |
| 25 | Strategies for Enhancing the Accumulation and Retention of Extracellular Matrix in Tissue-Engineered Cartilage Cultured in Bioreactors. PLoS ONE, 2011, 6, e23119.   | 2.5 | 40        |
| 26 | Hairy Root Culture in a Liquid-Dispersed Bioreactor: Characterization of Spatial Heterogeneity.<br>Biotechnology Progress, 2000, 16, 391-401.  | 2.6 | 38        |
| 27 | Analysis of cell cycle activity and population dynamics in heterogeneous plant cell suspensions using flow cytometry. , 1998, 58, 515-528.   |     | 32        |
| 28 | Application of Membrane Tubing Aeration and Perfluorocarbon To Improve Oxygen Delivery to Hairy<br>Root Cultures. Biotechnology Progress, 1998, 14, 479-486.   | 2.6 | 29        |
| 29 | Coculture of genetically transformed roots and shoots for synthesis, translocation, and biotransformation of secondary metabolites. , 2000, 49, 481-494.   |     | 29        |
| 30 | Osteogenic differentiation and osteochondral tissue engineering using human adiposeâ€derived stem cells. Biotechnology Progress, 2013, 29, 176-185.  | 2.6 | 29        |
| 31 | Investigation of liquid-solid hydrodynamic boundary layers and oxygen requirements in hairy root cultures. , 1999, 64, 729-740.  |     | 28        |
| 32 | Oxygen transfer and culture characteristics of self-immobilizedSolanum aviculare aggregates.<br>Biotechnology and Bioengineering, 1995, 47, 541-549.   | 3.3 | 25        |
| 33 | In Situ Generation of Tunable Porosity Gradients in Hydrogelâ€Based Scaffolds for Microfluidic Cell<br>Culture. Advanced Healthcare Materials, 2014, 3, 1655-1670.   | 7.6 | 21        |
| 34 | Biosynthesis of fluorescent CdS nanocrystals with semiconductor properties: Comparison of microbial and plant production systems. Journal of Biotechnology, 2016, 223, 13-23.  | 3.8 | 21        |
| 35 | Coculture of genetically transformed roots and shoots for synthesis, translocation, and biotransformation of secondary metabolites. Biotechnology and Bioengineering, 1996, 49, 481-494.   | 3.3 | 21        |
| 36 | Extent of cell differentiation and capacity for cartilage synthesis in human adult adiposeâ€derived stem cells: Comparison with fetal chondrocytes. Biotechnology and Bioengineering, 2010, 107, 393-401.                          | 3.3 | 20        |

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|----|---|-----|-----------|
| 37 | Application of Solanum lycopersicum (tomato) hairy roots for production of passivated CdS nanocrystals with quantum dot properties. Biochemical Engineering Journal, 2014, 84, 36-44.   | 3.6 | 19        |
| 38 | Influence of inoculum morphology on growth of Atropa belladonna hairy roots and production of tropane alkaloids. Biotechnology Letters, 1996, 18, 1099-1104.  | 2.2 | 18        |
| 39 | Limitations associated with conductivity measurement for monitoring growth in plant tissue culture.<br>Plant Cell, Tissue and Organ Culture, 1992, 29, 93-99.   | 2.3 | 17        |
| 40 | Cartilage Tissue Engineering: What Have We Learned in Practice?. Methods in Molecular Biology, 2015,<br>1340, 3-21.   | 0.9 | 16        |
| 41 | Fast three-dimensional micropatterning of PC12 cells in rapidly crosslinked hydrogel scaffolds using ultrasonic standing waves. Biofabrication, 2020, 12, 015013.   | 7.1 | 15        |
| 42 | Improved seeding of chondrocytes into polyglycolic acid scaffolds using semiâ€static and alginate loading methods. Biotechnology Progress, 2011, 27, 191-200.   | 2.6 | 14        |
| 43 | Redirection of Cellular Metabolism Annals of the New York Academy of Sciences, 1987, 506, 1-23.   | 3.8 | 13        |
| 44 | Shear and Compression Bioreactor for Cartilage Synthesis. Methods in Molecular Biology, 2015, 1340, 221-233.  | 0.9 | 13        |
| 45 | The Filtration Properties ofAtropa belladonna Plant Cell Suspensions; Effects of Hydrodynamic Shear<br>and Elevated Carbon Dioxide Levels on Culture and Filtration Parameters. Journal of Chemical<br>Technology and Biotechnology, 1997, 69, 15-26. | 3.2 | 12        |
| 46 | In vitro propagation of plant virus using different forms of plant tissue culture and modes of culture operation. Journal of Biotechnology, 2009, 143, 198-206.   | 3.8 | 10        |
| 47 | Therapeutically Important Proteins From In Vitro Plant Tissue Culture Systems. Current Medicinal<br>Chemistry, 2013, 20, 1047-1055.   | 2.4 | 10        |
| 48 | Electrical stimulation of cell growth and neurogenesis using conductive and nonconductive microfibrous scaffolds. Integrative Biology (United Kingdom), 2019, 11, 264-279.  | 1.3 | 10        |
| 49 | Production of Chemicals Using Genetically Transformed Plant Organs <sup>a</sup> . Annals of the New York Academy of Sciences, 1994, 745, 426-441.   | 3.8 | 9         |
| 50 | Foreign Protein Expression Using Plant Cell Suspension and Hairy Root Cultures. , 2005, , 13-36.  |     | 7         |
| 51 | Production of zebrafish cardiospheres and cardiac progenitor cells in vitro and threeâ€dimensional culture of adult zebrafish cardiac tissue in scaffolds. Biotechnology and Bioengineering, 2017, 114, 2142-2148.                                    | 3.3 | 7         |
| 52 | Stimulation of cell growth and neurogenesis using protein-functionalized microfibrous scaffolds and fluid flow in bioreactors. Biochemical Engineering Journal, 2020, 159, 107602.  | 3.6 | 6         |
| 53 | Bioreactor scaleâ€down studies of suspended plant cell cultures. AICHE Journal, 2018, 64, 4281-4288.  | 3.6 | 5         |
| 54 | Hyperaccumulation of cadmium by hairy roots of Thlaspi caerulescens. Biotechnology and Bioengineering, 2000, 67, 607.   | 3.3 | 4         |

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|----|--|-----|-----------|
| 55 | Enhanced Neural Differentiation Using Simultaneous Application of 3D Scaffold Culture, Fluid Flow, and Electrical Stimulation in Bioreactors. Advanced Biology, 2021, 5, e2000136.   | 2.5 | 3         |
| 56 | The Filtration Properties of Atropa belladonna Plant Cell Suspensions; Effects of Hydrodynamic Shear<br>and Elevated Carbon Dioxide Levels on Culture and Filtration Parameters. Journal of Chemical<br>Technology and Biotechnology, 1997, 69, 15-26. | 3.2 | 1         |
| 57 | Human Fetal and Adult Chondrocytes. Methods in Molecular Biology, 2015, 1340, 25-40.   | 0.9 | 0         |
|    |  |     |           |

Interactivity of biochemical and physical stimuli during epigenetic conditioning and cardiomyocytic differentiation of stem and progenitor cells derived from adult hearts. Integrative Biology (United) Tj ETQq0 0 0 rgBI3/Overlock 10 Tf 50