

James B Phillips

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

2,981
citations

147566

31
h-index

182168

51
g-index

99
all docs

99
docs citations

99
times ranked

3868
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Engineered neural tissue with aligned, differentiated adipose-derived stem cells promotes peripheral nerve regeneration across a critical sized defect in rat sciatic nerve. <i>Biomaterials</i> , 2015, 37, 242-251. | 5.7 | 186 |
| 2 | Engineered neural tissue for peripheral nerve repair. <i>Biomaterials</i> , 2013, 34, 7335-7343. | 5.7 | 185 |
| 3 | Human dental pulp stem cells can differentiate into Schwann cells and promote and guide neurite outgrowth in an aligned tissue-engineered collagen construct in vitro. <i>FASEB Journal</i> , 2014, 28, 1634-1643. | 0.2 | 162 |
| 4 | Neural Tissue Engineering: A Self-Organizing Collagen Guidance Conduit. <i>Tissue Engineering</i> , 2005, 11, 1611-1617. | 4.9 | 134 |
| 5 | Cell Responses to Biomimetic Protein Scaffolds Used in Tissue Repair and Engineering. <i>International Review of Cytology</i> , 2007, 262, 75-150. | 6.2 | 123 |
| 6 | Glucose-Coated Gold Nanoparticles Transfer across Human Brain Endothelium and Enter Astrocytes In Vitro. <i>PLoS ONE</i> , 2013, 8, e81043. | 1.1 | 122 |
| 7 | Alignment of Astrocytes Increases Neuronal Growth in Three-Dimensional Collagen Gels and Is Maintained Following Plastic Compression to Form a Spinal Cord Repair Conduit. <i>Tissue Engineering - Part A</i> , 2010, 16, 3173-3184. | 1.6 | 100 |
| 8 | A versatile 3D culture model facilitates monitoring of astrocytes undergoing reactive gliosis. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2009, 3, 634-646. | 1.3 | 90 |
| 9 | Engineered neural tissue with Schwann cell differentiated human dental pulp stem cells: potential for peripheral nerve repair?. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 3362-3372. | 1.3 | 82 |
| 10 | Peripheral nerves in the rat exhibit localized heterogeneity of tensile properties during limb movement. <i>Journal of Physiology</i> , 2004, 557, 879-887. | 1.3 | 78 |
| 11 | Vascularization Strategies for Peripheral Nerve Tissue Engineering. <i>Anatomical Record</i> , 2018, 301, 1657-1667. | 0.8 | 70 |
| 12 | Antioxidant Inhibitors Potentiate the Cytotoxicity of Photodynamic Therapy. <i>Photochemistry and Photobiology</i> , 2012, 88, 175-187. | 1.3 | 64 |
| 13 | Characterization of non-neuronal elements within fibronectin mats implanted into the damaged adult rat spinal cord. <i>Biomaterials</i> , 2006, 27, 485-496. | 5.7 | 62 |
| 14 | The six most essential questions in psychiatric diagnosis: a pluralogue part 1: conceptual and definitional issues in psychiatric diagnosis. <i>Philosophy, Ethics, and Humanities in Medicine</i> , 2012, 7, 3. | 0.7 | 50 |
| 15 | Using Stem Cells to Grow Artificial Tissue for Peripheral Nerve Repair. <i>Stem Cells International</i> , 2016, 2016, 1-18. | 1.2 | 49 |
| 16 | Stabilization, Rolling, and Addition of Other Extracellular Matrix Proteins to Collagen Hydrogels Improve Regeneration in Chitosan Guides for Long Peripheral Nerve Gaps in Rats. <i>Neurosurgery</i> , 2017, 80, 465-474. | 0.6 | 49 |
| 17 | Schwann cells and mesenchymal stem cells in laminin- or fibronectin-aligned matrices and regeneration across a critical size defect of 15 mm in the rat sciatic nerve. <i>Journal of Neurosurgery: Spine</i> , 2018, 28, 109-118. | 0.9 | 48 |
| 18 | Fluid shear in viscous fibronectin gels allows aggregation of fibrous materials for CNS tissue engineering. <i>Biomaterials</i> , 2004, 25, 2769-2779. | 5.7 | 46 |

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|----|--|-----|-----------|
| 19 | Targeting tumour energy metabolism potentiates the cytotoxicity of 5-aminolevulinic acid photodynamic therapy. <i>British Journal of Cancer</i> , 2013, 109, 976-982. | 2.9 | 44 |
| 20 | An allogeneic "off the shelf"™ therapeutic strategy for peripheral nerve tissue engineering using clinical grade human neural stem cells. <i>Scientific Reports</i> , 2018, 8, 2951. | 1.6 | 43 |
| 21 | An Optimized Collagen-Fibrin Blend Engineered Neural Tissue Promotes Peripheral Nerve Repair. <i>Tissue Engineering - Part A</i> , 2018, 24, 1332-1340. | 1.6 | 42 |
| 22 | Mechanical Response of Neural Cells to Physiologically Relevant Stiffness Gradients. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901036. | 3.9 | 41 |
| 23 | The neuroprotective effects of fibronectin mats and fibronectin peptides following spinal cord injury in the rat. <i>Neuroscience</i> , 2010, 168, 523-530. | 1.1 | 39 |
| 24 | Perspective on Schwann Cells Derived from Induced Pluripotent Stem Cells in Peripheral Nerve Tissue Engineering. <i>Cells</i> , 2020, 9, 2497. | 1.8 | 39 |
| 25 | Mechanical properties of the spinal cord and brain: Comparison with clinical-grade biomaterials for tissue engineering and regenerative medicine. <i>Biomaterials</i> , 2020, 258, 120303. | 5.7 | 39 |
| 26 | Materials for peripheral nerve repair constructs: Natural proteins or synthetic polymers?. <i>Neurochemistry International</i> , 2021, 143, 104953. | 1.9 | 39 |
| 27 | Electrostatic self-assembled graphene oxide-collagen scaffolds towards a three-dimensional microenvironment for biomimetic applications. <i>RSC Advances</i> , 2016, 6, 49039-49051. | 1.7 | 35 |
| 28 | Investigating mechanical behaviour at a core-sheath interface in peripheral nerve. <i>Journal of the Peripheral Nervous System</i> , 2004, 9, 255-262. | 1.4 | 34 |
| 29 | Fully Protected Glycosylated Zinc (II) Phthalocyanine Shows High Uptake and Photodynamic Cytotoxicity in MCF7 Cancer Cells. <i>Photochemistry and Photobiology</i> , 2013, 89, 139-149. | 1.3 | 34 |
| 30 | Characterising cellular and molecular features of human peripheral nerve degeneration. <i>Acta Neuropathologica Communications</i> , 2020, 8, 51. | 2.4 | 34 |
| 31 | Engineered aligned endothelial cell structures in tethered collagen hydrogels promote peripheral nerve regeneration. <i>Acta Biomaterialia</i> , 2021, 126, 224-237. | 4.1 | 34 |
| 32 | Rapidly formed stable and aligned dense collagen gels seeded with Schwann cells support peripheral nerve regeneration. <i>Journal of Neural Engineering</i> , 2020, 17, 046036. | 1.8 | 33 |
| 33 | The effects of treatment with antibodies to transforming growth factor β 1 and β 2 following spinal cord damage in the adult rat. <i>Neuroscience</i> , 2004, 126, 173-183. | 1.1 | 32 |
| 34 | Micro-structured Materials and Mechanical Cues in 3D Collagen Gels. <i>Methods in Molecular Biology</i> , 2011, 695, 183-196. | 0.4 | 32 |
| 35 | Biomechanical properties of the spinal cord: implications for tissue engineering and clinical translation. <i>Regenerative Medicine</i> , 2016, 11, 659-673. | 0.8 | 31 |
| 36 | Low frequency oscillating gradient spin-echo sequences improve sensitivity to axon diameter: An experimental study in viable nerve tissue. <i>NeuroImage</i> , 2018, 182, 314-328. | 2.1 | 31 |

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|----|--|-----|-----------|
| 37 | Optimising contraction and alignment of cellular collagen hydrogels to achieve reliable and consistent engineered anisotropic tissue. <i>Journal of Biomaterials Applications</i> , 2015, 30, 599-607. | 1.2 | 29 |
| 38 | Investigating the mechanical shear-plane between core and sheath elements of peripheral nerves. <i>Cell and Tissue Research</i> , 2005, 320, 229-234. | 1.5 | 28 |
| 39 | Peripheral neural cell sensitivity to mTHPC-mediated photodynamic therapy in a 3D in vitro model. <i>British Journal of Cancer</i> , 2009, 101, 658-665. | 2.9 | 25 |
| 40 | Developing an <i>In Vitro</i> Model to Screen Drugs for Nerve Regeneration. <i>Anatomical Record</i> , 2018, 301, 1628-1637. | 0.8 | 25 |
| 41 | An ultrastructural and biochemical analysis of collagen in rat peripheral nerves: the relationship between fibril diameter and mechanical properties. <i>Journal of the Peripheral Nervous System</i> , 2011, 16, 261-269. | 1.4 | 24 |
| 42 | A three-dimensional collagen construct to model lipopolysaccharide-induced activation of BV2 microglia. <i>Journal of Neuroinflammation</i> , 2014, 11, 134. | 3.1 | 24 |
| 43 | Cell Therapies for Spinal Cord Injury: Trends and Challenges of Current Clinical Trials. <i>Neurosurgery</i> , 2020, 87, E456-E472. | 0.6 | 24 |
| 44 | A three-dimensional model of the human blood-brain barrier to analyse the transport of nanoparticles and astrocyte/endothelial interactions. <i>F1000Research</i> , 2015, 4, 1279. | 0.8 | 24 |
| 45 | Combining Gene and Stem Cell Therapy for Peripheral Nerve Tissue Engineering. <i>Stem Cells and Development</i> , 2017, 26, 231-238. | 1.1 | 23 |
| 46 | The Effect of Hypothermic and Cryogenic Preservation on Engineered Neural Tissue. <i>Tissue Engineering - Part C: Methods</i> , 2017, 23, 575-582. | 1.1 | 20 |
| 47 | Engineering an Integrated Cellular Interface in Three-Dimensional Hydrogel Cultures Permits Monitoring of Reciprocal Astrocyte and Neuronal Responses. <i>Tissue Engineering - Part C: Methods</i> , 2012, 18, 526-536. | 1.1 | 19 |
| 48 | Novel inhibitors of AChE and A β aggregation with neuroprotective properties as lead compounds for the treatment of Alzheimer's disease. <i>European Journal of Medicinal Chemistry</i> , 2022, 235, 114305. | 2.6 | 19 |
| 49 | Inhibition of Specific Cellular Antioxidant Pathways Increases the Sensitivity of Neurons to Meta-tetrahydroxyphenyl Chlorin-Mediated Photodynamic Therapy in a 3D Co-culture Model. <i>Photochemistry and Photobiology</i> , 2012, 88, 1539-1545. | 1.3 | 18 |
| 50 | Building stable anisotropic tissues using cellular collagen gels. <i>Organogenesis</i> , 2014, 10, 6-8. | 0.4 | 18 |
| 51 | Monitoring Neuron and Astrocyte Interactions with a 3D Cell Culture System. <i>Methods in Molecular Biology</i> , 2014, 1162, 113-124. | 0.4 | 18 |
| 52 | Controlling human corneal stromal stem cell contraction to mediate rapid cell and matrix organization of real architecture for 3-dimensional tissue equivalents. <i>Acta Biomaterialia</i> , 2018, 67, 229-237. | 4.1 | 18 |
| 53 | Quantifying regeneration in patients following peripheral nerve injury. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2020, 73, 201-208. | 0.5 | 18 |
| 54 | Strategies for Peripheral Nerve Repair. <i>Current Tissue Microenvironment Reports</i> , 2020, 1, 49-59. | 1.3 | 18 |

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|----|--|-----|-----------|
| 55 | Natural Biomaterials as Instructive Engineered Microenvironments That Direct Cellular Function in Peripheral Nerve Tissue Engineering. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 674473. | 2.0 | 17 |
| 56 | Engineered neural tissue made using clinical-grade human neural stem cells supports regeneration in a long gap peripheral nerve injury model. <i>Acta Biomaterialia</i> , 2021, 135, 203-213. | 4.1 | 17 |
| 57 | An integrated theoretical-experimental approach to accelerate translational tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e53-e59. | 1.3 | 16 |
| 58 | A 3D <i>in vitro</i> model reveals differences in the astrocyte response elicited by potential stem cell therapies for CNS injury. <i>Regenerative Medicine</i> , 2013, 8, 739-746. | 0.8 | 15 |
| 59 | A three-dimensional model of the human blood-brain barrier to analyse the transport of nanoparticles and astrocyte/endothelial interactions. <i>F1000Research</i> , 2015, 4, 1279. | 0.8 | 15 |
| 60 | Combining <i>in silico</i> and <i>in vitro</i> models to inform cell seeding strategies in tissue engineering. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20190801. | 1.5 | 15 |
| 61 | Label-free mapping of microstructural organisation in self-aligning cellular collagen hydrogels using image correlation spectroscopy. <i>Acta Biomaterialia</i> , 2016, 30, 258-264. | 4.1 | 12 |
| 62 | Could clinical photochemical internalisation be optimised to avoid neuronal toxicity?. <i>International Journal of Pharmaceutics</i> , 2017, 528, 133-143. | 2.6 | 12 |
| 63 | Controlled local release of PPAR β agonists from biomaterials to treat peripheral nerve injury. <i>Journal of Neural Engineering</i> , 2020, 17, 046030. | 1.8 | 11 |
| 64 | Adapting tissue-engineered <i>in vitro</i> CNS models for high-throughput study of neurodegeneration. <i>Journal of Tissue Engineering</i> , 2017, 8, 204173141769792. | 2.3 | 9 |
| 65 | Repurposing Small Molecules to Target PPAR β as New Therapies for Peripheral Nerve Injuries. <i>Biomolecules</i> , 2021, 11, 1301. | 1.8 | 9 |
| 66 | An alginate-based encapsulation system for delivery of therapeutic cells to the CNS. <i>RSC Advances</i> , 2022, 12, 4005-4015. | 1.7 | 9 |
| 67 | Physical and mechanical properties of RAFT-stabilised collagen gels for tissue engineering applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 99, 216-224. | 1.5 | 8 |
| 68 | A Tenon's capsule/bulbar conjunctiva interface biomimetic to model fibrosis and local drug delivery. <i>PLoS ONE</i> , 2020, 15, e0241569. | 1.1 | 8 |
| 69 | A Shock to the (Nervous) System: Bioelectricity Within Peripheral Nerve Tissue Engineering. <i>Tissue Engineering - Part B: Reviews</i> , 2022, 28, 1137-1150. | 2.5 | 6 |
| 70 | Editorial: Peripheral Nerve Regeneration. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 464. | 1.8 | 5 |
| 71 | Characterization of a α -Blanch-Blush-Mechano-Response in Palmar Skin. <i>Journal of Investigative Dermatology</i> , 2006, 126, 220-226. | 0.3 | 4 |
| 72 | Generation of c-MycERTAM-transduced human late-adherent olfactory mucosa cells for potential regenerative applications. <i>Scientific Reports</i> , 2019, 9, 13190. | 1.6 | 4 |

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|----|---|-----|-----------|
| 73 | The Effects of Surgical Antiseptics and Time Delays on RNA Isolated From Human and Rodent Peripheral Nerves. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 189. | 1.8 | 4 |
| 74 | Neural cell responses to wear debris from metal-on-metal total disc replacements. <i>European Spine Journal</i> , 2020, 29, 2701-2712. | 1.0 | 4 |
| 75 | The molecular profile of nerve repair: humans mirror rodents. <i>Neural Regeneration Research</i> , 2021, 16, 1440. | 1.6 | 4 |
| 76 | <i>In silico</i> framework to inform the design of repair constructs for peripheral nerve injury repair. <i>Journal of the Royal Society Interface</i> , 2022, 19, 20210824. | 1.5 | 4 |
| 77 | Embryonic and mature astrocytes exert different effects on neuronal growth in rat ventral mesencephalic slice cultures. <i>SpringerPlus</i> , 2015, 4, 558. | 1.2 | 3 |
| 78 | Modelling-informed cell-seeded nerve repair construct designs for treating peripheral nerve injuries. <i>PLoS Computational Biology</i> , 2021, 17, e1009142. | 1.5 | 3 |
| 79 | Volumetric MRI is a promising outcome measure of muscle reinnervation. <i>Scientific Reports</i> , 2021, 11, 22433. | 1.6 | 3 |
| 80 | A combined experimental and computational framework to evaluate the behavior of therapeutic cells for peripheral nerve regeneration. <i>Biotechnology and Bioengineering</i> , 2022, 119, 1980-1996. | 1.7 | 3 |
| 81 | A drug delivery system for the treatment of peripheral nervous system injuries. , 2004, 2004, 5047-9. | | 2 |
| 82 | Host muscle cell infiltration in cell-seeded plastic compressed collagen constructs. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2009, 3, 72-75. | 1.3 | 2 |
| 83 | Three-dimensional culture systems in central nervous system research. , 2020, , 571-601. | | 2 |
| 84 | Engineered Tissues Made from Human iPSC-Derived Schwann Cells for Investigating Peripheral Nerve Regeneration In Vitro. <i>Methods in Molecular Biology</i> , 2021, 2269, 245-254. | 0.4 | 2 |
| 85 | “EngNT™” Engineering live neural tissue for nerve replacement. <i>Emerging Topics in Life Sciences</i> , 2021, 5, 699-703. | 1.1 | 2 |
| 86 | Microscopic biophysical model of self-organization in tissue due to feedback between cell- and macroscopic-scale forces. <i>Physical Review Research</i> , 2020, 2, . | 1.3 | 2 |
| 87 | Drug Therapies for Peripheral Nerve Injuries. , 2020, , 1-27. | | 1 |
| 88 | Serum deprivation and re-addition: effects on cyclooxygenase inhibitor sensitivity in cultured glia. <i>Inflammopharmacology</i> , 2005, 13, 431-439. | 1.9 | 0 |
| 89 | British Society for Matrix Biology Autumn Meeting “Joint with the UK Tissue & Cell Engineering Society, University of Bristol, UK. <i>International Journal of Experimental Pathology</i> , 2005, 86, A1-A56. | 0.6 | 0 |
| 90 | Combining Stem Cells and Materials for Nerve Tissue Regeneration. , 2020, , 269-281. | | 0 |

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|----|--|-----|-----------|
| 91 | Collagen Biomaterials for Nerve Tissue Engineering. , 2020, , 1-30. | | 0 |
| 92 | Engineered Aligned Endothelial Cell Structures in Tethered Collagen Hydrogels Promote Peripheral Nerve Regeneration. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 93 | Title is missing!. , 2020, 15, e0241569. | | 0 |
| 94 | Title is missing!. , 2020, 15, e0241569. | | 0 |
| 95 | Title is missing!. , 2020, 15, e0241569. | | 0 |
| 96 | Title is missing!. , 2020, 15, e0241569. | | 0 |
| 97 | Drug Therapies for Peripheral Nerve Injuries. Reference Series in Biomedical Engineering, 2022, , 437-463. | 0.1 | 0 |
| 98 | Collagen Biomaterials for Nerve Tissue Engineering. Reference Series in Biomedical Engineering, 2022, , 353-382. | 0.1 | 0 |