# Sean V Murphy

## List of Publications by Citations



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|---|---|---|---|
| 49 papers | 5,918 citations | 22 h-index | 52 g-index |
| 52 ext. papers | 7,066 ext. citations | 6.5 avg, IF | 6.74 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 49 | 3D bioprinting of tissues and organs. *Nature Biotechnology*, **2014**, 32, 773-85 | 44.5 | 3876 |
| 48 | Evaluation of hydrogels for bio-printing applications. *Journal of Biomedical Materials Research - Part A*, **2013**, 101, 272-84 | 5.4 | 379 |
| 47 | Multi-tissue interactions in an integrated three-tissue organ-on-a-chip platform. *Scientific Reports*, **2017**, 7, 8837 | 4.9 | 297 |
| 46 | In Situ Bioprinting of Autologous Skin Cells Accelerates Wound Healing of Extensive Excisional Full-Thickness Wounds. *Scientific Reports*, **2019**, 9, 1856 | 4.9 | 171 |
| 45 | Opportunities and challenges of translational 3D bioprinting. *Nature Biomedical Engineering*, **2020**, 4, 370-380 | 19 | 144 |
| 44 | Human amnion epithelial cells prevent bleomycin-induced lung injury and preserve lung function. *Cell Transplantation*, **2011**, 20, 909-23 | 4 | 128 |
| 43 | A tunable hydrogel system for long-term release of cell-secreted cytokines and bioprinted in situ wound cell delivery. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2017**, 105, 1986-2000 | 3.5 | 73 |
| 42 | Drug compound screening in single and integrated multi-organoid body-on-a-chip systems. *Biofabrication*, **2020**, 12, 025017 | 10.5 | 63 |
| 41 | Lung-On-A-Chip Technologies for Disease Modeling and Drug Development. *Biomedical Engineering and Computational Biology*, **2016**, 7, 17-27 | 3.6 | 62 |
| 40 | Amniotic fluid and placental membranes: unexpected sources of highly multipotent cells. *Seminars in Reproductive Medicine*, **2013**, 31, 62-8 | 1.4 | 62 |
| 39 | Bladder acellular matrix and its application in bladder augmentation. *Tissue Engineering - Part B: Reviews*, **2014**, 20, 163-72 | 7.9 | 61 |
| 38 | Human amnion epithelial cells do not abrogate pulmonary fibrosis in mice with impaired macrophage function. *Cell Transplantation*, **2012**, 21, 1477-92 | 4 | 59 |
| 37 | Solubilized Amnion Membrane Hyaluronic Acid Hydrogel Accelerates Full-Thickness Wound Healing. *Stem Cells Translational Medicine*, **2017**, 6, 2020-2032 | 6.9 | 55 |
| 36 | Probing prodrug metabolism and reciprocal toxicity with an integrated and humanized multi-tissue organ-on-a-chip platform. *Acta Biomaterialia*, **2020**, 106, 124-135 | 10.8 | 51 |
| 35 | Bioprinted Skin Recapitulates Normal Collagen Remodeling in Full-Thickness Wounds. *Tissue Engineering - Part A*, **2020**, 26, 512-526 | 3.9 | 34 |
| 34 | Multicellular 3D Neurovascular Unit Model for Assessing Hypoxia and Neuroinflammation Induced Blood-Brain Barrier Dysfunction. *Scientific Reports*, **2020**, 10, 9766 | 4.9 | 28 |
| 33 | Amnion membrane hydrogel and amnion membrane powder accelerate wound healing in a full thickness porcine skin wound model. *Stem Cells Translational Medicine*, **2020**, 9, 80-92 | 6.9 | 27 |

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| 32 | Tissue performance of bladder following stretched electrospun silk fibroin matrix and bladder acellular matrix implantation in a rabbit model. *Journal of Biomedical Materials Research - Part A*, **2016**, 104, 9-16 | 5.4 | 25 |
| 31 | Measuring respiratory function in mice using unrestrained whole-body plethysmography. *Journal of Visualized Experiments*, **2014**, e51755 | 1.6 | 23 |
| 30 | Prospect for kidney bioengineering: shortcomings of the status quo. *Expert Opinion on Biological Therapy*, **2015**, 15, 547-58 | 5.4 | 23 |
| 29 | Stem Cell Therapy for Treatment of Stress Urinary Incontinence: The Current Status and Challenges. *Stem Cells International*, **2016**, 2016, 7060975 | 5 | 23 |
| 28 | Human amnion epithelial cells induced to express functional cystic fibrosis transmembrane conductance regulator. *PLoS ONE*, **2012**, 7, e46533 | 3.7 | 22 |
| 27 | Bioprinted trachea constructs with patient-matched design, mechanical and biological properties. *Biofabrication*, **2019**, 12, 015022 | 10.5 | 22 |
| 26 | Human mesenchymal stem cells reduce lung injury in immunocompromised mice but not in immunocompetent mice. *Respiration*, **2013**, 85, 332-41 | 3.7 | 21 |
| 25 | Tracheal reconstruction in a canine model. *Otolaryngology - Head and Neck Surgery*, **2014**, 150, 428-33 | 5.5 | 19 |
| 24 | Current Challenges of Bioprinted Tissues Toward Clinical Translation. *Tissue Engineering - Part B: Reviews*, **2019**, 25, 1-13 | 7.9 | 18 |
| 23 | Regenerative medicine. *JAMA - Journal of the American Medical Association*, **2015**, 313, 1413-4 | 27.4 | 17 |
| 22 | Use of trimetasphere metallofullerene MRI contrast agent for the non-invasive longitudinal tracking of stem cells in the lung. *Methods*, **2016**, 99, 99-111 | 4.6 | 16 |
| 21 | Regenerative medicine in urology. *Seminars in Pediatric Surgery*, **2014**, 23, 106-11 | 2.1 | 15 |
| 20 | Isolation, cryopreservation and culture of human amnion epithelial cells for clinical applications. *Journal of Visualized Experiments*, **2014**, | 1.6 | 15 |
| 19 | Rethinking Regenerative Medicine From a Transplant Perspective (and Vice Versa). *Transplantation*, **2019**, 103, 237-249 | 1.8 | 13 |
| 18 | Long-term therapeutic effect of cell therapy on improvement in erectile function in a rat model with pelvic neurovascular injury. *BJU International*, **2019**, 124, 145-154 | 5.6 | 12 |
| 17 | Immunomodulatory Cell Therapy to Target Cystic Fibrosis Inflammation. *American Journal of Respiratory Cell and Molecular Biology*, **2018**, 58, 12-20 | 5.7 | 11 |
| 16 | Kidney transplantation, bioengineering and regeneration: an originally immunology-based discipline destined to transition towards ad hoc organ manufacturing and repair. *Expert Review of Clinical Immunology*, **2016**, 12, 169-82 | 5.1 | 10 |
| 15 | Stromal cells from perinatal and adult sources modulate the inflammatory immune response in vitro by decreasing Th1 cell proliferation and cytokine secretion. *Stem Cells Translational Medicine*, **2020**, 9, 61-73 | 6.9 | 9 |

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| 14 | Extrusion-Based Bioprinting: Current Standards and Relevancy for Human-Sized Tissue Fabrication. *Methods in Molecular Biology*, **2020**, 2140, 65-92 | 1.4 | 8 |
| 13 | Cystic Fibrosis Inflammation: Hyperinflammatory, Hypoinflammatory, or Both?. *American Journal of Respiratory Cell and Molecular Biology*, **2019**, 61, 273-274 | 5.7 | 6 |
| 12 | Cell therapy for cystic fibrosis. *Journal of Tissue Engineering and Regenerative Medicine*, **2015**, 9, 210-23 | 4.4 | 5 |
| 11 | Sustained release of stromal cell-derived factor-1 alpha from silk fibroin microfiber promotes urethral reconstruction in rabbits. *Journal of Biomedical Materials Research - Part A*, **2020**, 108, 1760-1773 | 5.4 | 3 |
| 10 | Immune and Cytokine Dysfunction in Cystic Fibrosis. *American Journal of Respiratory Cell and Molecular Biology*, **2019**, 61, 656-658 | 5.7 | 2 |
| 9 | Bioprinting for Wound Healing Applications. *Frontiers in Nanobiomedical Research*, **2017**, 325-353 | | 2 |
| 8 | A Rapid Crosslinkable Maleimide-Modified Hyaluronic Acid and Gelatin Hydrogel Delivery System for Regenerative Applications. *Gels*, **2021**, 7, | 4.2 | 2 |
| 7 | IMAGE AND VIDEO ACQUISITION AND PROCESSING FOR CLINICAL APPLICATIONS. *Biomedical Engineering and Computational Biology*, **2016**, 7, 35-8 | 3.6 | 1 |
| 6 | Newborn Stem Cells: Identity, Function, and Clinical Potential **2013**, 119-137 | | 1 |
| 5 | Fluorescent Cell Imaging in Regenerative Medicine. *Biomedical Engineering and Computational Biology*, **2016**, 7, 29-33 | 3.6 | 1 |
| 4 | Perinatal Cells and Biomaterials for Wound Healing **2018**, 175-186 | | |
| 3 | Clinical Application of Stem/Stromal Cells in Cystic Fibrosis **2019**, 179-198 | | |
| 2 | Cell and Molecular Biology and Imaging of Stem Cells1-20 | | |
| 1 | Adenosine-treated bioprinted muscle constructs prolong cell survival and improve tissue formation. *Bio-Design and Manufacturing*, **2021**, 4, 441-451 | 4.7 | |