# Vanessa LaPointe

## List of Publications by Year in descending order



| | | | |
|---|---|---|---|
| 53 papers | 1,494 citations | 471509 17 h-index | 454955 30 g-index |
| 61 all docs | 61 docs citations | 61 times ranked | 2826 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Approaches for corneal endothelium regenerative medicine. Progress in Retinal and Eye Research, 2022, 87, 100987. | 15.5 | 35 |
| 2 | Cadherin-11 Regulates Cell Proliferation via the PDGFRÎ²-ERK1/2 Signaling Pathway in Human Mesenchymal Stem Cells. Stem Cells, 2022, 40, 165-174. | 3.2 | 6 |
| 3 | Mesoporous Silica-Coated Gold Nanoparticles for Multimodal Imaging and Reactive Oxygen Species Sensing of Stem Cells. ACS Applied Nano Materials, 2022, 5, 3237-3251. | 5.0 | 8 |
| 4 | The response of three-dimensional pancreatic alpha and beta cell co-cultures to oxidative stress. PLoS ONE, 2022, 17, e0257578. | 2.5 | 2 |
| 5 | Cadherin-11 Influences Differentiation in Human Mesenchymal Stem Cells by Regulating the Extracellular Matrix Via the TGFÎ²1 Pathway. Stem Cells, 2022, 40, 669-677. | 3.2 | 3 |
| 6 | Soft, Dynamic Hydrogel Confinement Improves Kidney Organoid Lumen Morphology and Reduces Epithelialâ€“Mesenchymal Transition in Culture. Advanced Science, 2022, 9, e2200543. | 11.2 | 29 |
| 7 | Oxidative stress in pancreatic alpha and beta cells as a selection criterion for biocompatible biomaterials. Biomaterials, 2021, 267, 120449. | 11.4 | 11 |
| 8 | Increased Cell Survival of Human Primary Conjunctival Stem Cells in Dimethyl Sulfoxide-Based Cryopreservation Media. Biopreservation and Biobanking, 2021, 19, 67-72. | 1.0 | 4 |
| 9 | Win, Lose, or Tie: Mathematical Modeling of Ligand Competition at the Cellâ€“Extracellular Matrix Interface. Frontiers in Bioengineering and Biotechnology, 2021, 9, 657244. | 4.1 | 5 |
| 10 | Fucoidan Hydrogels Significantly Alleviate Oxidative Stress and Enhance the Endocrine Function of Encapsulated Beta Cells. Advanced Functional Materials, 2021, 31, 2011205. | 14.9 | 8 |
| 11 | The functional importance of the cellular and extracellular composition of the islets of Langerhans. Journal of Immunology and Regenerative Medicine, 2021, 13, 100048. | 0.4 | 4 |
| 12 | Defining the variety of cell types in developing and adult human kidneys by single-cell RNA sequencing. Npj Regenerative Medicine, 2021, 6, 45. | 5.2 | 23 |
| 13 | Sticking together: Harnessing cadherin biology for tissue engineering. Acta Biomaterialia, 2021, 134, 107-115. | 8.3 | 2 |
| 14 | Fucoidan Hydrogels Significantly Alleviate Oxidative Stress and Enhance the Endocrine Function of Encapsulated Beta Cells (Adv. Funct. Mater. 35/2021). Advanced Functional Materials, 2021, 31, 2170255. | 14.9 | 0 |
| 15 | Thiol-ene cross-linked alginate hydrogel encapsulation modulates the extracellular matrix of kidney organoids by reducing abnormal type 1a1 collagen deposition. Biomaterials, 2021, 275, 120976. | 11.4 | 36 |
| 16 | The Role of Pancreatic Alpha Cells and Endothelial Cells in the Reduction of Oxidative Stress in Pseudoislets. Frontiers in Bioengineering and Biotechnology, 2021, 9, 729057. | 4.1 | 4 |
| 17 | Nanoscale Topographies for Corneal Endothelial Regeneration. Applied Sciences (Switzerland), 2021, 11, 827. | 2.5 | 7 |
| 18 | Chorioamnionitis induces changes in ovine pulmonary endogenous epithelial stem/progenitor cells in utero. Pediatric Research, 2021, 90, 549-558. | 2.3 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A comparative study of mesenchymal stem cells cultured as cellâ€only aggregates and in encapsulated hydrogels. Journal of Tissue Engineering and Regenerative Medicine, 2021, , . | 2.7 | 5 |
| 20 | Synthetic Materials that Affect the Extracellular Matrix via Cellular Metabolism and Responses to a Metabolic State. Frontiers in Bioengineering and Biotechnology, 2021, 9, 742132. | 4.1 | 5 |
| 21 | Single cell transcriptomics reveals the heterogeneity of the human cornea to identify novel markers of the limbus and stroma. Scientific Reports, 2021, 11, 21727. | 3.3 | 26 |
| 22 | Systematic evaluation of clinically used biomaterials to determine their suitability for fabrication of beta cell delivery devices. Journal of Immunology and Regenerative Medicine, 2021, 16, 100055. | 0.4 | 0 |
| 23 | The Role of Alpha Cells in the Self-Assembly of Bioengineered Islets. Tissue Engineering - Part A, 2020, 27, 1055-1063. | 3.1 | 3 |
| 24 | Transport and Preservation Comparison of Preloaded and Prestripped-Only DMEK Grafts. Cornea, 2020, 39, 1407-1414. | 1.7 | 16 |
| 25 | Cell culture dimensionality influences mesenchymal stem cell fate through cadherin-2 and cadherin-11. Biomaterials, 2020, 254, 120127. | 11.4 | 13 |
| 26 | Overcoming kidney organoid challenges for regenerative medicine. Npj Regenerative Medicine, 2020, 5, 8. | 5.2 | 48 |
| 27 | Building Complex Life Through Self-Organization. Tissue Engineering - Part A, 2019, 25, 1341-1346. | 3.1 | 17 |
| 28 | Oxygen and nutrient delivery in tissue engineering: Approaches to graft vascularization. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 1815-1829. | 2.7 | 87 |
| 29 | Vascular bioengineering of scaffolds derived from human discarded transplant kidneys using human pluripotent stem cellâ€“derived endothelium. American Journal of Transplantation, 2019, 19, 1328-1343. | 4.7 | 39 |
| 30 | Redox regulation in regenerative medicine and tissue engineering: The paradox of oxygen. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 2013-2020. | 2.7 | 36 |
| 31 | The Components of Bone and What They Can Teach Us about Regeneration. Materials, 2018, 11, 14. | 2.9 | 65 |
| 32 | Linking the Transcriptional Landscape of Bone Induction to Biomaterial Design Parameters. Advanced Materials, 2017, 29, 1603259. | 21.0 | 34 |
| 33 | Cell aggregation enhances bone formation by human mesenchymal stromal cells. , 2017, 33, 121-129. | | 11 |
| 34 | Directed Assembly and Development of Materialâ€Free Tissues with Complex Architectures. Advanced Materials, 2016, 28, 4032-4039. | 21.0 | 54 |
| 35 | Independent effects of the chemical and microstructural surface properties of polymer/ceramic composites on proliferation and osteogenic differentiation of human MSCs. Acta Biomaterialia, 2016, 42, 364-377. | 8.3 | 32 |
| 36 | Cellular Signaling. , 2014, , 111-148. | | 1 |

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|---|---|---|---|
| 37 | Suppression of the immune system as a critical step for bone formation from allogeneic osteoprogenitors implanted in rats. Journal of Cellular and Molecular Medicine, 2014, 18, 134-142. | 3.6 | 23 |
| 38 | Nanoscale Topography and Chemistry Affect Embryonic Stem Cell Selfâ€Renewal and Early Differentiation. Advanced Healthcare Materials, 2013, 2, 1644-1650. | 7.6 | 32 |
| 39 | Stem Cells: Nanoscale Topography and Chemistry Affect Embryonic Stem Cell Selfâ€Renewal and Early Differentiation (Adv. Healthcare Mater. 12/2013). Advanced Healthcare Materials, 2013, 2, 1538-1538. | 7.6 | 0 |
| 40 | The Changing Integrin Expression and a Role for Integrin Î²8 in the Chondrogenic Differentiation of Mesenchymal Stem Cells. PLoS ONE, 2013, 8, e82035. | 2.5 | 20 |
| 41 | Changes in embryonic stem cell colony morphology and early differentiation markers driven by colloidal crystal topographical cues. , 2012, 23, 135-146. | | 56 |
| 42 | Exploring and exploiting chemistry at the cell surface. Nature Chemistry, 2011, 3, 582-589. | 13.6 | 282 |
| 43 | Substrate stiffness affects early differentiation events in embryonic stem cells. , 2009, 18, 1-14. | | 387 |
| 44 | Effect of Traction on the Head During Vaginal Delivery on Brachial Plexus Strain.. Simulation in Healthcare, 2007, 2, 78. | 1.2 | 0 |
| 45 | Effect of Cardinal Movements on Fetal Mechanical Response During Simulated Shoulder Dystocia Deliveries.. Simulation in Healthcare, 2007, 2, 77. | 1.2 | 0 |
| 46 | 241: Brachial plexus strain is minimally affected when asynclitism is resolved by operative vaginal delivery. American Journal of Obstetrics and Gynecology, 2007, 197, S79. | 1.3 | 0 |
| 47 | 242: Differences in maximal arc achieved during operative vaginal delivery do not explain differential maternal injury risk between forceps and vacuum. American Journal of Obstetrics and Gynecology, 2007, 197, S79. | 1.3 | 0 |
| 48 | Measuring Neck Nerve Strain: An Experimental Investigation. , 2007, , . | | 0 |
| 49 | Effect of mcrobert's maneuver on fetal shoulder progression through the pelvis. American Journal of Obstetrics and Gynecology, 2006, 195, S92. | 1.3 | 2 |
| 50 | Brachial plexus strain associated with delivery traction: Effect of awaiting fetal head rotation. American Journal of Obstetrics and Gynecology, 2006, 195, S119. | 1.3 | 0 |
| 51 | Comparing fetal response during stage two, external rotation and head-to-body interval in simulated shoulder dystocia deliveries. American Journal of Obstetrics and Gynecology, 2006, 195, S120. | 1.3 | 1 |
| 52 | Enhanced Microvasculature Formation and Patterning in iPSCâ€“Derived Kidney Organoids Cultured in Physiological Hypoxia. Frontiers in Bioengineering and Biotechnology, 0, 10, . | 4.1 | 7 |
| 53 | Methodological approaches in aggregate formation and microscopic analysis to assess pseudoislet morphology and cellular interactions. Open Research Europe, 0, 2, 87. | 2.0 | 0 |