# FranÃ§ois Berthod

List of Publications by Year
in descending order

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|---|---|---|---|
| 55 papers | 4,646 citations | 117453 34 h-index | 174990 52 g-index |
| 58 all docs | 58 docs citations | 58 times ranked | 5255 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Collagen-Based Biomaterials for Tissue Engineering Applications. Materials, 2010, 3, 1863-1887. | 1.3 | 953 |
| 2 | In vitroreconstruction of a human capillaryâ€like network in a tissueâ€engineered skin equivalent. FASEB Journal, 1998, 12, 1331-1340. | 0.2 | 412 |
| 3 | Inosculation of Tissue-Engineered Capillaries with the Host's Vasculature in a Reconstructed Skin Transplanted on Mice. American Journal of Transplantation, 2005, 5, 1002-1010. | 2.6 | 335 |
| 4 | Vasculature Guides Migrating Neuronal Precursors in the Adult Mammalian Forebrain via Brain-Derived Neurotrophic Factor Signaling. Journal of Neuroscience, 2009, 29, 4172-4188. | 1.7 | 310 |
| 5 | Nerve regeneration in a collagenâ€“chitosan tissue-engineered skin transplanted on nude mice. Biomaterials, 2003, 24, 1653-1661. | 5.7 | 137 |
| 6 | Extracellular matrix deposition by fibroblasts is necessary to promote capillary-like tube formation in vitro. Journal of Cellular Physiology, 2006, 207, 491-498. | 2.0 | 130 |
| 7 | Tissueâ€engineered skin substitutes: from in vitro constructs to in vivo applications. Biotechnology and Applied Biochemistry, 2004, 39, 263-275. | 1.4 | 128 |
| 8 | A tissue-engineered endothelialized dermis to study the modulation of angiogenic and angiostatic molecules on capillary-like tube formation in vitro. British Journal of Dermatology, 2003, 148, 1094-1104. | 1.4 | 125 |
| 9 | Tissue-engineered human skin substitutes developed from collagen-populated hydrated gels: clinical and fundamental applications. Medical and Biological Engineering and Computing, 1998, 36, 801-812. | 1.6 | 117 |
| 10 | Collagen synthesis by fibroblasts cultured within a collagen sponge. Biomaterials, 1993, 14, 749-754. | 5.7 | 113 |
| 11 | Characterization of Skin Reconstructed on a Chitosan-Cross-Linked Collagen-Glycosaminoglycan Matrix. Skin Pharmacology and Physiology, 1990, 3, 107-114. | 1.1 | 92 |
| 12 | Differential Expression of Collagens XII and XIV in Human Skin and in Reconstructed Skin. Journal of Investigative Dermatology, 1997, 108, 737-742. | 0.3 | 91 |
| 13 | Optimization of thickness, pore size and mechanical properties of a biomaterial designed for deep burn coverage. Clinical Materials, 1994, 15, 259-265. | 0.5 | 90 |
| 14 | In vitro study of axonal migration and myelination of motor neurons in a threeâ€dimensional tissueâ€engineered model. Glia, 2008, 56, 354-364. | 2.5 | 88 |
| 15 | Optimized protocols for isolation of primary motor neurons, astrocytes and microglia from embryonic mouse spinal cord. Journal of Neuroscience Methods, 2007, 163, 111-118. | 1.3 | 84 |
| 16 | Concise Review: Tissue-Engineered Skin and Nerve Regeneration in Burn Treatment. Stem Cells Translational Medicine, 2013, 2, 545-551. | 1.6 | 83 |
| 17 | Comparative study of bovine, porcine and avian collagens for the production of a tissue engineered dermis. Acta Biomaterialia, 2011, 7, 3757-3765. | 4.1 | 82 |
| 18 | Collagen fibril network and elastic system remodeling in a reconstructed skin transplanted on nude mice. Matrix Biology, 2001, 20, 463-473. | 1.5 | 81 |

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|---|---|---|---|
| 19 | Differentiation of human adult skin-derived neuronal precursors into mature neurons. Journal of Cellular Physiology, 2007, 210, 498-506. | 2.0 | 70 |
| 20 | A dermal substrate made of collagen-GA-chitosan for deep burn coverage: First clinical uses. Clinical Materials, 1994, 15, 273-276. | 0.5 | 68 |
| 21 | Development of an innervated tissue-engineered skin with human sensory neurons and Schwann cells differentiated from iPS cells. Acta Biomaterialia, 2018, 82, 93-101. | 4.1 | 66 |
| 22 | Improvement of Nerve Regeneration in Tissue-Engineered Skin Enriched with Schwann Cells. Journal of Investigative Dermatology, 2009, 129, 2895-2900. | 0.3 | 59 |
| 23 | Deposition of collagen fibril bundles by long-term culture of fibroblasts in a collagen sponge. , 1996, 32, 87-94. | | 55 |
| 24 | Nerve Growth Factor, Brain-Derived Neurotrophic Factor, Neurotrophin-3 and Glial-Derived Neurotrophic Factor Enhance Angiogenesis in a Tissue-EngineeredIn VitroModel. Tissue Engineering - Part A, 2013, 19, 1655-1664. | 1.6 | 52 |
| 25 | In vitro development of a tissueâ€engineered model of peripheral nerve regeneration to study neurite growth. FASEB Journal, 2003, 17, 1-16. | 0.2 | 50 |
| 26 | In vitro reconstruction of a tissue-engineered endothelialized bladder from a single porcine biopsy. Journal of Pediatric Urology, 2006, 2, 261-270. | 0.6 | 47 |
| 27 | Early detection of structural abnormalities and cytoplasmic accumulation of TDP-43 in tissue-engineered skins derived from ALS patients. Acta Neuropathologica Communications, 2015, 3, 5. | 2.4 | 47 |
| 28 | In vitroreconstructed skin models for wound coverage in deep burns. British Journal of Dermatology, 1997, 136, 809-816. | 1.4 | 46 |
| 29 | Sensory Neurons Accelerate Skin Reepithelialization via Substance P in an Innervated Tissue-Engineered Wound Healing Model. Tissue Engineering - Part A, 2014, 20, 2180-2188. | 1.6 | 46 |
| 30 | Biotechnological Management of Skin Burn Injuries: Challenges and Perspectives in Wound Healing and Sensory Recovery. Tissue Engineering - Part B: Reviews, 2017, 23, 59-82. | 2.5 | 46 |
| 31 | Normal Human Epithelial Cells Regulate the Size and Morphology of Tissue-Engineered Capillaries. Tissue Engineering - Part A, 2010, 16, 1457-1468. | 1.6 | 45 |
| 32 | Lifting the veil on the keratinocyte contribution to cutaneous nociception. Protein and Cell, 2020, 11, 239-250. | 4.8 | 42 |
| 33 | In Vitro Evaluation of the Angiostatic Potential of Drugs Using an Endothelialized Tissue-Engineered Connective Tissue. Journal of Pharmacology and Experimental Therapeutics, 2005, 315, 510-516. | 1.3 | 40 |
| 34 | Mesenchymal-epithelial interactions regulate gene expression of type VII collagen and kalinin in keratinocytes and dermal-epidermal junction formation in a skin equivalent model. Wound Repair and Regeneration, 1996, 4, 93-102. | 1.5 | 37 |
| 35 | Cutaneous Myiasis: Diagnosis, Treatment, and Prevention. Journal of Oral and Maxillofacial Surgery, 2008, 66, 560-568. | 0.5 | 36 |
| 36 | In vivo enhancement of sensory perception recovery in a tissue-engineered skin enriched with laminin. Biomaterials, 2006, 27, 2988-2993. | 5.7 | 35 |

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|---|---|---|---|
| 37 | High yield extraction of pure spinal motor neurons, astrocytes and microglia from single embryo and adult mouse spinal cord. Scientific Reports, 2015, 5, 16763. | 1.6 | 35 |
| 38 | Cutaneous nociception: Role of keratinocytes. Experimental Dermatology, 2019, 28, 1466-1469. | 1.4 | 35 |
| 39 | Reconstructed skin from co-cultured human keratinocytes and fibroblasts on a chitosane cross-linked collagen-GAG matrix. Journal of Materials Science: Materials in Medicine, 1991, 2, 222-226. | 1.7 | 33 |
| 40 | Spontaneous fibroblastâ€derived pericyte recruitment in a human tissueâ€engineered angiogenesis model in vitro. Journal of Cellular Physiology, 2012, 227, 2130-2137. | 2.0 | 32 |
| 41 | Moyamoya Disease Susceptibility Gene RNF213 Regulates Endothelial Barrier Function. Stroke, 2022, 53, 1263-1275. | 1.0 | 26 |
| 42 | Hair Follicles Guide Nerve Migration In Vitro and In Vivo in Tissue-Engineered Skin. Journal of Investigative Dermatology, 2011, 131, 1375-1378. | 0.3 | 25 |
| 43 | Repair of peripheral nerve injuries using a prevascularized cell-based tissue-engineered nerve conduit. Biomaterials, 2022, 280, 121269. | 5.7 | 23 |
| 44 | Quantitative Method to Evaluate the Functionality of the Trigeminal Nerve. Journal of Oral and Maxillofacial Surgery, 2007, 65, 2254-2259. | 0.5 | 20 |
| 45 | InÂvitro glycation of an endothelialized and innervated tissue-engineered skin to screen anti-AGE molecules. Biomaterials, 2015, 51, 216-225. | 5.7 | 19 |
| 46 | Prevascularized Tissue-Engineered Human Vaginal Mucosa: In Vitro Optimization and In Vivo Validation. Tissue Engineering - Part A, 2020, 26, 811-822. | 1.6 | 19 |
| 47 | Use ofin VitroReconstructed Skin To Cover Skin Flap Donor Site. Journal of Surgical Research, 1997, 73, 143-148. | 0.8 | 18 |
| 48 | Neuropeptide Substance P Released from a Nonswellable Laponite-Based Hydrogel Enhances Wound Healing in a Tissue-Engineered Skin In Vitro. ACS Applied Polymer Materials, 2020, 2, 5790-5797. | 2.0 | 11 |
| 49 | Tissueâ€engineered in vitro modeling of the impact of Schwann cells in amyotrophic lateral sclerosis. Biotechnology and Bioengineering, 2022, 119, 1938-1948. | 1.7 | 3 |
| 50 | A Longitudinal Low DoseÎ¼CT Analysis of Bone Healing in Mice: A Pilot Study. Advances in Orthopedics, 2014, 2014, 1-9. | 0.4 | 2 |
| 51 | Principles of Living Organ Reconstruction by Tissue Engineering. , 2003, , . | | 2 |
| 52 | Potential of Tissue Engineering and Neural Stem Cells in the Understanding and Treatment of Neurodegenerative Diseases. , 2011, , 321-345. | | 0 |
| 53 | Tissueengineered skin and the treatment of burns: Skin doctor. Biochemist, 2007, 29, 4-6. | 0.2 | 0 |
| 54 | Threeâ€dimensional engineering of the nervous system. FASEB Journal, 2009, 23, 418.4. | 0.2 | 0 |

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|---|---|---|---|
| 55 | The Relation between ALS and the Skin: A Novel Human In Vitro Model to Identify New Biomarkers. Journal of Molecular Biomarkers & Diagnosis, 2015, 06, . | 0.4 | 0 |