

Stefano Geuna

List of Publications by Year in descending order

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271
papers

9,189
citations

31974

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69246

77
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278
all docs

278
docs citations

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times ranked

8158
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Nerve repair by means of tubulization: Literature review and personal clinical experience comparing biological and synthetic conduits for sensory nerve repair. <i>Microsurgery</i> , 2005, 25, 258-267. | 1.3 | 311 |
| 2 | Chapter 3 Histology of the Peripheral Nerve and Changes Occurring During Nerve Regeneration. <i>International Review of Neurobiology</i> , 2009, 87, 27-46. | 2.0 | 218 |
| 3 | Functional and Morphological Assessment of a Standardized Rat Sciatic Nerve Crush Injury with a Non-Serrated Clamp. <i>Journal of Neurotrauma</i> , 2004, 21, 1652-1670. | 3.4 | 162 |
| 4 | Chitosan-film enhanced chitosan nerve guides for long-distance regeneration of peripheral nerves. <i>Biomaterials</i> , 2016, 76, 33-51. | 11.4 | 156 |
| 5 | Oxidative Stress Triggers Cardiac Fibrosis in the Heart of Diabetic Rats. <i>Endocrinology</i> , 2008, 149, 380-388. | 2.8 | 151 |
| 6 | Phototherapy for enhancing peripheral nerve repair: A review of the literature. <i>Muscle and Nerve</i> , 2005, 31, 694-701. | 2.2 | 148 |
| 7 | Chitosan tubes of varying degrees of acetylation for bridging peripheral nerve defects. <i>Biomaterials</i> , 2013, 34, 9886-9904. | 11.4 | 140 |
| 8 | Acylated and unacylated ghrelin impair skeletal muscle atrophy in mice. <i>Journal of Clinical Investigation</i> , 2013, 123, 611-22. | 8.2 | 140 |
| 9 | A simple protocol for paraffin-embedded myelin sheath staining with osmium tetroxide for light microscope observation. <i>Microscopy Research and Technique</i> , 2008, 71, 497-502. | 2.2 | 129 |
| 10 | Low-power laser biostimulation enhances nerve repair after end-to-side neurorrhaphy: a double-blind randomized study in the rat median nerve model. <i>Lasers in Medical Science</i> , 2004, 19, 57-65. | 2.1 | 118 |
| 11 | Nerve repair by means of vein filled with muscle grafts I. Clinical results. , 2000, 20, 32-36. | | 117 |
| 12 | Use of hybrid chitosan membranes and N1E-115 cells for promoting nerve regeneration in an axonotmesis rat model. <i>Biomaterials</i> , 2008, 29, 4409-4419. | 11.4 | 115 |
| 13 | Chapter 5 Methods and Protocols in Peripheral Nerve Regeneration Experimental Research. <i>International Review of Neurobiology</i> , 2009, 87, 81-103. | 2.0 | 111 |
| 14 | The paradigm of postconditioning to protect the heart. <i>Journal of Cellular and Molecular Medicine</i> , 2008, 12, 435-458. | 3.6 | 108 |
| 15 | The sciatic nerve injury model in pre-clinical research. <i>Journal of Neuroscience Methods</i> , 2015, 243, 39-46. | 2.5 | 106 |
| 16 | Phototherapy promotes regeneration and functional recovery of injured peripheral nerve. <i>Neurological Research</i> , 2004, 26, 233-239. | 1.3 | 102 |
| 17 | Verification of the two-dimensional disector, a method for the unbiased estimation of density and number of myelinated nerve fibers in peripheral nerves. <i>Annals of Anatomy</i> , 2000, 182, 23-34. | 1.9 | 100 |
| 18 | Appreciating the difference between design-based and model-based sampling strategies in quantitative morphology of the nervous system. <i>Journal of Comparative Neurology</i> , 2000, 427, 333-339. | 1.6 | 98 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Long-term functional and morphological assessment of a standardized rat sciatic nerve crush injury with a non-serrated clamp. <i>Journal of Neuroscience Methods</i> , 2007, 163, 92-104. | 2.5 | 97 |
| 20 | The Effect of Electrospun Gelatin Fibers Alignment on Schwann Cell and Axon Behavior and Organization in the Perspective of Artificial Nerve Design. <i>International Journal of Molecular Sciences</i> , 2015, 16, 12925-12942. | 4.1 | 96 |
| 21 | Electrical stimulation impairs early functional recovery and accentuates skeletal muscle atrophy after sciatic nerve crush injury in rats. <i>Muscle and Nerve</i> , 2010, 41, 685-693. | 2.2 | 86 |
| 22 | On the use of the grasping test in the rat median nerve model: a re-appraisal of its efficacy for quantitative assessment of motor function recovery. <i>Journal of Neuroscience Methods</i> , 2003, 127, 43-47. | 2.5 | 85 |
| 23 | Chapter 25 Phototherapy in Peripheral Nerve Injury. <i>International Review of Neurobiology</i> , 2009, 87, 445-464. | 2.0 | 85 |
| 24 | Nerve repair by means of vein filled with muscle grafts. II. Morphological analysis of regeneration. <i>Microsurgery</i> , 2000, 20, 37-41. | 1.3 | 84 |
| 25 | On sampling and sampling errors in histomorphometry of peripheral nerve fibers. <i>Microsurgery</i> , 2004, 24, 72-76. | 1.3 | 83 |
| 26 | Methodological issues in size estimation of myelinated nerve fibers in peripheral nerves. <i>Anatomy and Embryology</i> , 2001, 204, 1-10. | 1.5 | 81 |
| 27 | Gelatin-based hydrogel for vascular endothelial growth factor release in peripheral nerve tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 459-470. | 2.7 | 81 |
| 28 | Use of Skeletal Muscle Tissue in Peripheral Nerve Repair: Review of the Literature. <i>Tissue Engineering</i> , 2004, 10, 1027-1036. | 4.6 | 75 |
| 29 | Chapter 4 Methods and Protocols in Peripheral Nerve Regeneration Experimental Research: Part I "Experimental Models. <i>International Review of Neurobiology</i> , 2009, 87, 47-79. | 2.0 | 73 |
| 30 | Chapter 11 Tissue Engineering of Peripheral Nerves. <i>International Review of Neurobiology</i> , 2009, 87, 227-249. | 2.0 | 73 |
| 31 | The Use of Chitosan-Based Scaffolds to Enhance Regeneration in the Nervous System. <i>International Review of Neurobiology</i> , 2013, 109, 1-62. | 2.0 | 71 |
| 32 | <i>In vitro</i> models for peripheral nerve regeneration. <i>European Journal of Neuroscience</i> , 2016, 43, 287-296. | 2.6 | 71 |
| 33 | Schwann cell behavior after nerve repair by means of tissue-engineered muscle-vein combined guides. <i>Journal of Comparative Neurology</i> , 2005, 489, 249-259. | 1.6 | 70 |
| 34 | Grafting Neural Precursor Cells Promotes Functional Recovery in an SCA1 Mouse Model. <i>Journal of Neuroscience</i> , 2009, 29, 13126-13135. | 3.6 | 70 |
| 35 | End-to-side (terminolateral) nerve regeneration: A challenge for neuroscientists coming from an intriguing nerve repair concept. <i>Brain Research Reviews</i> , 2006, 52, 381-388. | 9.0 | 68 |
| 36 | Tubulization with chitosan guides for the repair of long gap peripheral nerve injury in the rat. <i>Microsurgery</i> , 2015, 35, 300-308. | 1.3 | 68 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Toe out angle: a functional index for the evaluation of sciatic nerve recovery in the rat model. <i>Experimental Neurology</i> , 2003, 183, 695-699. | 4.1 | 67 |
| 38 | Mesenchymal stem cell interaction with a nonwoven hyaluronan-based scaffold suitable for tissue repair. <i>Journal of Anatomy</i> , 2008, 213, 520-530. | 1.5 | 67 |
| 39 | Functional and morphological assessment of a standardized crush injury of the rat median nerve. <i>Journal of Neuroscience Methods</i> , 2009, 179, 51-57. | 2.5 | 67 |
| 40 | PLGA 90/10 and caprolactone biodegradable nerve guides for the reconstruction of the rat sciatic nerve. <i>Microsurgery</i> , 2007, 27, 125-137. | 1.3 | 66 |
| 41 | Postconditioning induces an anti-apoptotic effect and preserves mitochondrial integrity in isolated rat hearts. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 794-801. | 1.0 | 65 |
| 42 | The influence of electrospun fibre size on Schwann cell behaviour and axonal outgrowth. <i>Materials Science and Engineering C</i> , 2015, 48, 620-631. | 7.3 | 65 |
| 43 | Peripheral Nerve Regeneration through Hydrogel-Enriched Chitosan Conduits Containing Engineered Schwann Cells for Drug Delivery. <i>Cell Transplantation</i> , 2016, 25, 159-182. | 2.5 | 65 |
| 44 | Staining Methods for Normal and Regenerative Myelin in the Nervous System. <i>Methods in Molecular Biology</i> , 2017, 1560, 207-218. | 0.9 | 65 |
| 45 | Peripheral nerve injury and axonotmesis: State of the art and recent advances. <i>Cogent Medicine</i> , 2018, 5, 1466404. | 0.7 | 65 |
| 46 | Platelet-Rich Plasma and Skeletal Muscle Healing: A Molecular Analysis of the Early Phases of the Regeneration Process in an Experimental Animal Model. <i>PLoS ONE</i> , 2014, 9, e102993. | 2.5 | 64 |
| 47 | Bridging peripheral nerve defects with muscle-vein combined guides. <i>Neurological Research</i> , 2004, 26, 139-144. | 1.3 | 62 |
| 48 | Use of poly(DL-lactide- μ -caprolactone) membranes and mesenchymal stem cells from the Wharton's jelly of the umbilical cord for promoting nerve regeneration in axonotmesis: In vitro and in vivo analysis. <i>Differentiation</i> , 2012, 84, 355-365. | 1.9 | 62 |
| 49 | A comparison analysis of hindlimb kinematics during overground and treadmill locomotion in rats. <i>Behavioural Brain Research</i> , 2006, 172, 212-218. | 2.2 | 61 |
| 50 | Chapter 1 Peripheral Nerve Repair and Regeneration Research. <i>International Review of Neurobiology</i> , 2009, 87, 1-7. | 2.0 | 60 |
| 51 | Perspectives in regeneration and tissue engineering of peripheral nerves. <i>Annals of Anatomy</i> , 2011, 193, 334-340. | 1.9 | 60 |
| 52 | Primary repair of crush nerve injuries by means of biological tubulization with muscle-vein combined grafts. <i>Microsurgery</i> , 2012, 32, 358-363. | 1.3 | 59 |
| 53 | The revolution of counting $\hat{\rho}$ ops: Two decades of the disector principle in morphological research. <i>Microscopy Research and Technique</i> , 2005, 66, 270-274. | 2.2 | 58 |
| 54 | Methylprednisolone fails to improve functional and histological outcome following spinal cord injury in rats. <i>Experimental Neurology</i> , 2009, 220, 71-81. | 4.1 | 58 |

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| 55 | Ankle kinematics to evaluate functional recovery in crushed rat sciatic nerve. <i>Muscle and Nerve</i> , 2003, 27, 706-714. | 2.2 | 57 |
| 56 | Morphological characterization of GFP stably transfected adult mesenchymal bone marrow stem cells. <i>Journal of Anatomy</i> , 2006, 208, 3-12. | 1.5 | 56 |
| 57 | Neuronal intermediate filament expression in rat dorsal root ganglia sensory neurons: An in vivo and in vitro study. <i>Neuroscience</i> , 2008, 153, 1153-1163. | 2.3 | 56 |
| 58 | Calibration of the stereological estimation of the number of myelinated axons in the rat sciatic nerve: A multicenter study. <i>Journal of Neuroscience Methods</i> , 2010, 187, 90-99. | 2.5 | 56 |
| 59 | Schwann-Cell Proliferation in Muscle-Vein Combined Conduits for Bridging Rat Sciatic Nerve Defects. <i>Journal of Reconstructive Microsurgery</i> , 2003, 19, 119-123. | 1.8 | 54 |
| 60 | Comparison of fresh and predegenerated muscle-vein-combined guides for the repair of rat median nerve. <i>Microsurgery</i> , 2007, 27, 48-55. | 1.3 | 54 |
| 61 | Confocal imaging of Schwann-cell migration along muscle-vein combined grafts used to bridge nerve defects in the rat. <i>Microsurgery</i> , 2001, 21, 153-155. | 1.3 | 53 |
| 62 | The Role of Neurotrophic Factors Conjugated to Iron Oxide Nanoparticles in Peripheral Nerve Regeneration: <i>In Vitro</i> Studies. <i>BioMed Research International</i> , 2014, 2014, 1-10. | 1.9 | 52 |
| 63 | Update on stereology for light microscopy. <i>Cell and Tissue Research</i> , 2015, 360, 5-12. | 2.9 | 50 |
| 64 | Nerve Repair Using Decellularized Nerve Grafts in Rat Models. A Review of the Literature. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 427. | 3.7 | 50 |
| 65 | Employment of the mouse median nerve model for the experimental assessment of peripheral nerve regeneration. <i>Journal of Neuroscience Methods</i> , 2008, 169, 119-127. | 2.5 | 48 |
| 66 | Can regenerated nerve fibers return to normal size? A long-term post-traumatic study of the rat median nerve crush injury model. <i>Microsurgery</i> , 2012, 32, 383-387. | 1.3 | 48 |
| 67 | Rolipram promotes functional recovery after contusive thoracic spinal cord injury in rats. <i>Behavioural Brain Research</i> , 2013, 243, 66-73. | 2.2 | 48 |
| 68 | HuC/D confocal imaging points to olfactory migratory cells as the first cell population that expresses a post-mitotic neuronal phenotype in the chick embryo. <i>Neuroscience</i> , 2003, 122, 123-128. | 2.3 | 47 |
| 69 | Morphologic and Functional Study of Rat Median Nerve Repair by Terminolateral Neurorrhaphy of the Ulnar Nerve. <i>Journal of Reconstructive Microsurgery</i> , 2003, 19, 257-264. | 1.8 | 46 |
| 70 | Electrical stimulation based on chronaxie reduces atrogen-1 and myoD gene expressions in denervated rat muscle. <i>Muscle and Nerve</i> , 2007, 35, 87-97. | 2.2 | 46 |
| 71 | Tissue specificity in rat peripheral nerve regeneration through combined skeletal muscle and vein conduit grafts. , 2000, 20, 65-71. | | 45 |
| 72 | A free vein graft cap influences neuroma formation after nerve transection. <i>Microsurgery</i> , 2009, 29, 568-572. | 1.3 | 45 |

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|----|--|------|-----------|
| 73 | A comparison of two-dimensional and three-dimensional techniques for the determination of hindlimb kinematics during treadmill locomotion in rats following spinal cord injury. <i>Journal of Neuroscience Methods</i> , 2008, 173, 193-200. | 2.5 | 44 |
| 74 | Use of PLGA 90:10 Scaffolds Enriched with <i>In Vitro</i> Differentiated Neural Cells for Repairing Rat Sciatic Nerve Defects. <i>Tissue Engineering - Part A</i> , 2008, 14, 979-993. | 3.1 | 44 |
| 75 | Platelet gel does not improve peripheral nerve regeneration: An electrophysiological, stereological, and electron microscopic study. <i>Microsurgery</i> , 2009, 29, 144-153. | 1.3 | 44 |
| 76 | The Neuregulin1/ErbB system is selectively regulated during peripheral nerve degeneration and regeneration. <i>European Journal of Neuroscience</i> , 2016, 43, 351-364. | 2.6 | 44 |
| 77 | Comparison of results between chitosan hollow tube and autologous nerve graft in reconstruction of peripheral nerve defect: An experimental study. <i>Microsurgery</i> , 2016, 36, 664-671. | 1.3 | 43 |
| 78 | Effect of vascular endothelial growth factor gene therapy on post-traumatic peripheral nerve regeneration and denervation-related muscle atrophy. <i>Gene Therapy</i> , 2013, 20, 1014-1021. | 4.5 | 42 |
| 79 | Morphological analysis of peripheral nerve regenerated by means of vein grafts filled with fresh skeletal muscle. <i>Anatomy and Embryology</i> , 2000, 201, 475-482. | 1.5 | 41 |
| 80 | Adult stem cells and neurogenesis: Historical roots and state of the art. <i>The Anatomical Record</i> , 2001, 265, 132-141. | 1.8 | 41 |
| 81 | Effects of collagen membranes enriched with in vitro-differentiated N1E-115 cells on rat sciatic nerve regeneration after end-to-end repair. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2010, 7, 7. | 4.6 | 41 |
| 82 | Prenatal exposure to a nonsteroidal anti-inflammatory drug or saline solution impairs sciatic nerve morphology: a stereological and histological study. <i>International Journal of Developmental Neuroscience</i> , 2008, 26, 733-738. | 1.6 | 40 |
| 83 | Future Perspectives in Nerve Repair and Regeneration. <i>International Review of Neurobiology</i> , 2013, 109, 165-192. | 2.0 | 40 |
| 84 | Functional assessment of sciatic nerve recovery: biodegradable poly (DLLA- μ -CL) nerve guide filled with fresh skeletal muscle. <i>Microsurgery</i> , 2003, 23, 346-353. | 1.3 | 39 |
| 85 | Irreversible changes occurring in long-term denervated Schwann cells affect delayed nerve repair. <i>Journal of Neurosurgery</i> , 2017, 127, 843-856. | 1.6 | 38 |
| 86 | Fluorescent Silica Nanoparticles Improve Optical Imaging of Stem Cells Allowing Direct Discrimination between Live and Early Stage Apoptotic Cells. <i>Small</i> , 2012, 8, 3192-3200. | 10.0 | 37 |
| 87 | Alternative techniques for peripheral nerve repair: conduits and end-to-side neurorrhaphy. <i>Acta Neurochirurgica Supplementum</i> , 2007, 100, 43-50. | 1.0 | 37 |
| 88 | SilkBridge [®] : a novel biomimetic and biocompatible silk-based nerve conduit. <i>Biomaterials Science</i> , 2019, 7, 4112-4130. | 5.4 | 36 |
| 89 | The effect of melatonin and platelet gel on sciatic nerve repair: An electrophysiological and stereological study. <i>Microsurgery</i> , 2011, 31, 306-313. | 1.3 | 35 |
| 90 | Repairing nerve gaps by vein conduits filled with lipoaspirate-derived entire adipose tissue hinders nerve regeneration. <i>Annals of Anatomy</i> , 2013, 195, 225-230. | 1.9 | 35 |

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|-----|---|-----|-----------|
| 91 | Appreciating the difference between design-based and model-based sampling strategies in quantitative morphology of the nervous system. <i>Journal of Comparative Neurology</i> , 2000, 427, 333-9. | 1.6 | 35 |
| 92 | Melt-extruded guides for peripheral nerve regeneration. Part I: Poly(μ -caprolactone). <i>Biomedical Microdevices</i> , 2009, 11, 1037-1050. | 2.8 | 34 |
| 93 | Regeneration of long-distance peripheral nerve defects after delayed reconstruction in healthy and diabetic rats is supported by immunomodulatory chitosan nerve guides. <i>BMC Neuroscience</i> , 2017, 18, 53. | 1.9 | 34 |
| 94 | Nerve regeneration along bioengineered scaffolds. <i>Microsurgery</i> , 2007, 27, 429-438. | 1.3 | 33 |
| 95 | Perforator-based propeller flaps treating loss of substance in the lower limb. <i>Journal of Orthopaedics and Traumatology</i> , 2011, 12, 93-99. | 2.3 | 33 |
| 96 | Morphological, molecular and functional differences of adult bone marrow- and adipose-derived stem cells isolated from rats of different ages. <i>Experimental Cell Research</i> , 2012, 318, 2034-2048. | 2.6 | 33 |
| 97 | Expression of antioxidant molecules after peripheral nerve injury and regeneration. <i>Journal of Neuroscience Research</i> , 2012, 90, 842-848. | 2.9 | 33 |
| 98 | Chitosan crosslinked flat scaffolds for peripheral nerve regeneration. <i>Biomedical Materials (Bristol)</i> , 2016, 11, 045010. | 3.3 | 33 |
| 99 | The use of sheep as a model for studying peripheral nerve regeneration following nerve injury: review of the literature. <i>Neurological Research</i> , 2017, 39, 926-939. | 1.3 | 33 |
| 100 | Evaluation of Vascular Endothelial Growth Factor (VEGF) and Its Family Member Expression After Peripheral Nerve Regeneration and Denervation. <i>Anatomical Record</i> , 2018, 301, 1646-1656. | 1.4 | 33 |
| 101 | Effects of umbilical cord tissue mesenchymal stem cells (UCX ^Â) on rat sciatic nerve regeneration after neurotmesis injuries. <i>Journal of Stem Cells and Regenerative Medicine</i> , 2014, 10, 14-26. | 2.2 | 33 |
| 102 | The ulnar test: A method for the quantitative functional assessment of posttraumatic ulnar nerve recovery in the rat. <i>Journal of Neuroscience Methods</i> , 2006, 154, 198-203. | 2.5 | 32 |
| 103 | Neurotrophins and their receptors in early axonal regeneration along muscle-vein-combined grafts. <i>Microsurgery</i> , 2002, 22, 300-303. | 1.3 | 31 |
| 104 | Porous Poly(μ -caprolactone) Nerve Guide Filled with Porous Gelatin Matrix for Nerve Tissue Engineering. <i>Advanced Engineering Materials</i> , 2011, 13, B151. | 3.5 | 31 |
| 105 | Promoting Nerve Regeneration in a Neurotmesis Rat Model Using Poly(DL-lactide-co-glycolide) Scaffolds. <i>Journal of Biomedical Materials Research Part B: Applied Biomaterials</i> , 2014, 96, 1077-1085. | 1.9 | 31 |
| 106 | Mesenchymal Stem Cells from the Wharton's Jelly: <i>In Vitro</i> and <i>In Vivo</i> Analysis. <i>BioMed Research International</i> , 2014, 2014, 1-17. | | |
| 106 | Update on nerve repair by biological tubulization. <i>Journal of Brachial Plexus and Peripheral Nerve Injury</i> , 2014, 9, 3. | 1.0 | 31 |
| 107 | Generation of New Neurons in Dorsal Root Ganglia in Adult Rats after Peripheral Nerve Crush Injury. <i>Neural Plasticity</i> , 2015, 2015, 1-12. | 2.2 | 31 |
| 108 | Neural cell transplantation effects on sciatic nerve regeneration after a standardized crush injury in the rat. <i>Microsurgery</i> , 2008, 28, 458-470. | 1.3 | 30 |

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|-----|--|------|-----------|
| 109 | Comparison of Biodegradable Conduits within Aged Rat Sciatic Nerve Defects. <i>Plastic and Reconstructive Surgery</i> , 2008, 121, 344-345. | 1.4 | 29 |
| 110 | Standardized crush injury of the mouse median nerve. <i>Journal of Neuroscience Methods</i> , 2010, 188, 71-75. | 2.5 | 29 |
| 111 | Discrepancies in quantitative assessment of normal and regenerated peripheral nerve fibers between light and electron microscopy. <i>Journal of the Peripheral Nervous System</i> , 2014, 19, 224-233. | 3.1 | 29 |
| 112 | Enhanced axon outgrowth and improved long-distance axon regeneration in sprouty2 deficient mice. <i>Developmental Neurobiology</i> , 2015, 75, 217-231. | 3.0 | 29 |
| 113 | Identification and Validation of Suitable Housekeeping Genes for Normalizing Quantitative Real-Time PCR Assays in Injured Peripheral Nerves. <i>PLoS ONE</i> , 2014, 9, e105601. | 2.5 | 28 |
| 114 | Two factor-based reprogramming of rodent and human fibroblasts into Schwann cells. <i>Nature Communications</i> , 2017, 8, 14088. | 12.8 | 28 |
| 115 | Evidence of very early neuronal migration from the olfactory placode of the chick embryo. <i>Neuroscience</i> , 2001, 107, 191-197. | 2.3 | 27 |
| 116 | Use of muscle-vein-combined Y-chambers for repair of multiple nerve lesions: Experimental results. <i>Microsurgery</i> , 2004, 24, 459-464. | 1.3 | 27 |
| 117 | Origin and history of end-to-side neurorrhaphy. <i>Microsurgery</i> , 2007, 27, 56-61. | 1.3 | 27 |
| 118 | Chitosan Tubes Enriched with Fresh Skeletal Muscle Fibers for Primary Nerve Repair. <i>BioMed Research International</i> , 2018, 2018, 1-13. | 1.9 | 27 |
| 119 | Expression of β -2a-2b neuregulin-1 is associated with early peripheral nerve repair along muscle-enriched tubes. <i>NeuroReport</i> , 2003, 14, 1541-1545. | 1.2 | 26 |
| 120 | Microsurgical arteriovenous loops and biological templates: A novel in vivo chamber for tissue engineering. <i>Microsurgery</i> , 2007, 27, 623-629. | 1.3 | 26 |
| 121 | Early homing of adult mesenchymal stem cells in normal and infarcted isolated beating hearts. <i>Journal of Cellular and Molecular Medicine</i> , 2008, 12, 507-521. | 3.6 | 25 |
| 122 | Denervation and reinnervation of adult skeletal muscle modulate mRNA expression of neuregulin-1 and ErbB receptors. <i>Microsurgery</i> , 2009, 29, 464-472. | 1.3 | 25 |
| 123 | Combined Use of Chitosan and Olfactory Mucosa Mesenchymal Stem/Stromal Cells to Promote Peripheral Nerve Regeneration In Vivo. <i>Stem Cells International</i> , 2021, 2021, 1-32. | 2.5 | 25 |
| 124 | Lack of topographic specificity in nerve fiber regeneration of rat forelimb mixed nerves. <i>Neuroscience</i> , 2007, 144, 985-990. | 2.3 | 24 |
| 125 | Modulation of the Neuregulin 1/ErbB system after skeletal muscle denervation and reinnervation. <i>Scientific Reports</i> , 2018, 8, 5047. | 3.3 | 24 |
| 126 | The Median Nerve Injury Model in Pre-clinical Research – A Critical Review on Benefits and Limitations. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 288. | 3.7 | 24 |

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|-----|---|------|-----------|
| 127 | In vitro and in vivo chitosan membranes testing for peripheral nerve reconstruction. Acta Medica Portuguesa, 2011, 24, 43-52. | 0.4 | 24 |
| 128 | Morphology of nerve fiber regeneration along a biodegradable poly (DLLA-PLGA) nerve guide filled with fresh skeletal muscle. Microsurgery, 2003, 23, 338-345. | 1.3 | 23 |
| 129 | Unacylated Ghrelin Enhances Satellite Cell Function and Relieves the Dystrophic Phenotype in Duchenne Muscular Dystrophy mdx Model. Stem Cells, 2017, 35, 1733-1746. | 3.2 | 23 |
| 130 | Loss of the Human Cytomegalovirus US16 Protein Abrogates Virus Entry into Endothelial and Epithelial Cells by Reducing the Virion Content of the Pentamer. Journal of Virology, 2017, 91, . | 3.4 | 23 |
| 131 | Mice harbouring a SCA28 patient mutation in AFG3L2 develop late-onset ataxia associated with enhanced mitochondrial proteotoxicity. Neurobiology of Disease, 2019, 124, 14-28. | 4.4 | 23 |
| 132 | ErbB2 Receptor Over-Expression Improves Post-Traumatic Peripheral Nerve Regeneration in Adult Mice. PLoS ONE, 2013, 8, e56282. | 2.5 | 23 |
| 133 | Chitosan tubes enriched with fresh skeletal muscle fibers for delayed repair of peripheral nerve defects. Neural Regeneration Research, 2019, 14, 1079. | 3.0 | 23 |
| 134 | Termino-lateral nerve suture in lesions of the digital nerves: clinical experience and literature review. Journal of Hand Surgery: European Volume, 2010, 35, 109-114. | 1.0 | 22 |
| 135 | Gut Microbiota and Neuroplasticity. Cells, 2021, 10, 2084. | 4.1 | 22 |
| 136 | The reasons for end-to-side coaptation: how does lateral axon sprouting work?. Neural Regeneration Research, 2017, 12, 529. | 3.0 | 22 |
| 137 | Factors Ruling the Uptake of Silica Nanoparticles by Mesenchymal Stem Cells: Agglomeration Versus Dispersions, Absence Versus Presence of Serum Proteins. Small, 2015, 11, 2919-2928. | 10.0 | 21 |
| 138 | Possible promoting effects of melatonin, leptin and alcar on regeneration of the sciatic nerve. Journal of Chemical Neuroanatomy, 2017, 81, 34-41. | 2.1 | 21 |
| 139 | Epineurial Window Is More Efficient in Attracting Axons than Simple Coaptation in a Sutureless (Cyanoacrylate-Bound) Model of End-to-Side Nerve Repair in the Rat Upper Limb: Functional and Morphometric Evidences and Review of the Literature. PLoS ONE, 2016, 11, e0148443. | 2.5 | 21 |
| 140 | Chapter 14 End-to-Side Nerve Regeneration. International Review of Neurobiology, 2009, 87, 281-294. | 2.0 | 20 |
| 141 | Tissue Engineering and Peripheral Nerve Reconstruction. International Review of Neurobiology, 2013, 108, 35-57. | 2.0 | 20 |
| 142 | Preclinical Validation of SilkBridge™ for Peripheral Nerve Regeneration. Frontiers in Bioengineering and Biotechnology, 2020, 8, 835. | 4.1 | 20 |
| 143 | Evaluation of biodegradable electric conductive tube-guides and mesenchymal stem cells. World Journal of Stem Cells, 2015, 7, 956. | 2.8 | 20 |
| 144 | Selection of the donor nerve for end-to-side neuroorrhaphy. Journal of Neurosurgery, 2007, 107, 378-382. | 1.6 | 19 |

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|-----|--|-----|-----------|
| 145 | The Mouse Median Nerve Experimental Model in Regenerative Research. <i>BioMed Research International</i> , 2014, 2014, 1-6. | 1.9 | 19 |
| 146 | Neuregulin1 alpha activates migration of neuronal progenitors expressing ErbB4. <i>Molecular and Cellular Neurosciences</i> , 2016, 77, 87-94. | 2.2 | 19 |
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