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Animal models of spinal cord injury: a systematic review

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144	Motor cortex and spinal cord neuromodulation promote corticospinal tract axonal outgrowth and motor recovery after cervical contusion spinal cord injury. <i>Experimental Neurology</i> , 2017 , 297, 179-189	5.7	32
143	Erythropoietin signaling increases neurogenesis and oligodendrogenesis of endogenous neural stem cells following spinal cord injury both in vivo and in vitro. 2018 , 17, 264-272		16
142	A new technique for minimal invasive complete spinal cord injury in minipigs. 2018 , 160, 459-465		6
141	Microfluidic platforms for the study of neuronal injury in vitro. 2018 , 115, 815-830		23
140	High-speed video analysis improves the accuracy of spinal cord compression measurement in a mouse contusion model. 2018 , 293, 1-5		8
139	Neuroinflammation Quantification for Spinal Cord Injury. 2018 , 123, e57		13
138	The study design elements employed by researchers in preclinical animal experiments from two research domains and implications for automation of systematic reviews. 2018 , 13, e0199441		2
137	Combined Transcriptomics, Proteomics and Bioinformatics Identify Drug Targets in Spinal Cord Injury. 2018 , 19,		12
136	A rodent brain-machine interface paradigm to study the impact of paraplegia on BMI performance. 2018 , 306, 103-114		2
135	Advances in ex vivo models and lab-on-a-chip devices for neural tissue engineering. 2019 , 198, 146-166		31
134	Thoracic Spinal Cord Hemisection Surgery and Open-Field Locomotor Assessment in the Rat. 2019 ,		1
133	Neurophysiological Characterization of a Non-Human Primate Model of Traumatic Spinal Cord Injury Utilizing Fine-Wire EMG Electrodes. 2019 , 19,		2
132	Quantification of surviving neurons after contusion, dislocation, and distraction spinal cord injuries using automated methods. 2019 , 13, 1179069519869617		2
131	Chronic Spinal Cord Injury Reduces Gastrin-Releasing Peptide in the Spinal Ejaculation Generator in Male Rats. 2019 , 36, 3378-3393		5
130	Filling the Gap: Neural Stem Cells as A Promising Therapy for Spinal Cord Injury. 2019 , 12,		37
129	Experimental spinal cord injury and behavioral tests in laboratory rats. 2019 , 5, e01324		22
128	Development of a Multimodal Apparatus to Generate Biomechanically Reproducible Spinal Cord Injuries in Large Animals. 2019 , 10, 223		2

127	Assessment of Tissue Constructs In Vivo in Regenerative Engineering. 2019 , 427-431	
126	Treatment With 2-BFI Attenuated Spinal Cord Injury by Inhibiting Oxidative Stress and Neuronal Apoptosis the Nrf2 Signaling Pathway. 2019 , 13, 567	5
125	Congenital exercise ability ameliorates muscle atrophy but not spinal cord recovery in spinal cord injury mouse model. 2019 , 16, 1549-1556	2
124	Longitudinal Examination of Bone Loss in Male Rats After Moderate-Severe Contusion Spinal Cord Injury. 2019 , 104, 79-91	19
123	Modulatory effects of intravesical P2X2/3 purinergic receptor inhibition on lower urinary tract electromyographic properties and voiding function of female rats with moderate or severe spinal cord injury. 2019 , 123, 538-547	9
122	The Hemisection Approach in Large Animal Models of Spinal Cord Injury: Overview of Methods and Applications. 2020 , 33, 240-251	2
121	Spinal Cord Injury: Animal Models, Imaging Tools and the Treatment Strategies. 2020 , 45, 134-143	12
120	Companion animal models of neurological disease. 2020 , 331, 108484	10
119	Rat Models of Central Nervous System Injury. 2020 , 1023-1075	
118	Locomotor training with adjuvant testosterone preserves cancellous bone and promotes muscle plasticity in male rats after severe spinal cord injury. 2020 , 98, 843-868	7
117	Use of the Rat as a Model in Regenerative Medicine. 2020 , 1077-1105	
116	Neuropathic pain after spinal cord injury and physical exercise in animal models: A systematic review and meta-analysis. 2020 , 108, 781-795	12
115	Somatosensory corticospinal tract axons sprout within the cervical cord following a dorsal root/dorsal column spinal injury in the rat. 2020 , 528, 1293-1306	3
114	Behavioral testing in animal models of spinal cord injury. <i>Experimental Neurology</i> , 2020 , 333, 113410	5.7 13
113	An In Vitro Comparison of the Neurotrophic and Angiogenic Activity of Human and Canine Adipose-Derived Mesenchymal Stem Cells (MSCs): Translating MSC-Based Therapies for Spinal Cord Injury. 2020 , 10,	3
112	Effect of experimental, morphological and mechanical factors on the murine spinal cord subjected to transverse contusion: A finite element study. 2020 , 15, e0232975	7
111	Analysis of N- and O-Linked Glycosylation: Differential Glycosylation after Rat Spinal Cord Injury. 2020 , 37, 1954-1962	4
110	Reliability on animal models. 2020 , 249-277	

109	Induction of Complete Transection-Type Spinal Cord Injury in Mice. 2020 ,		0
108	Ex Vivo Rat Transected Spinal Cord Slices as a Model to Assess Lentiviral Vector Delivery of Neurotrophin-3 and Short Hairpin RNA against NG2. <i>Biology</i> , 2020 , 9,	4.9	2
107	Scaffolds for spinal cord injury repair: from proof of concept to first in-human studies and clinical trials. 2020 , 603-619		2
106	Animal models of central nervous system disorders. 2020 , 621-650		
105	Time-dependent microglia and macrophages response after traumatic spinal cord injury in rat: a systematic review. 2020 , 51, 2390-2401		5
104	Damage Mechanisms to Oligodendrocytes and White Matter in Central Nervous System Injury: The Australian Context. 2020 , 37, 739-769		8
103	Cell and Tissue Instructive Materials for Central Nervous System Repair. 2020 , 30, 1909083		9
102	Effect of Velocity and Duration of Residual Compression in a Rat Dislocation Spinal Cord Injury Model. 2020 , 37, 1140-1148		2
101	Spinal cord injury. 2020 , 1047-1091		0
100	Use of a Combination Strategy to Improve Morphological and Functional Recovery in Rats With Chronic Spinal Cord Injury. 2020 , 11, 189		3
99	Conducting Polymers for Tissue Regeneration in Vivo 2020 , 32, 4095-4115		22
98	"Median paralyzing dose" and "multiple regression analysis", a new viewpoint to the research method of spinal cord injury. 2020 , 140, 109677		
97	Animal Models of Cerebral Changes Secondary to Spinal Cord Injury. 2021 , 145, 244-250		0
96	Animal Models for Treating Spinal Cord Injury Using Biomaterials-Based Tissue Engineering Strategies. 2021 ,		5
95	Modelling at-level allodynia after mid-thoracic contusion in the rat. 2021 , 25, 801-816		1
94	Epidural electrical stimulation for spinal cord injury. <i>Neural Regeneration Research</i> , 2021 , 16, 2367-2375	4.5	4
93	A translational study of somatosensory evoked potential time-frequency components in rats, goats, and humans. <i>Neural Regeneration Research</i> , 2021 , 16, 2269-2275	4.5	0
92	Effects of aerobic exercise training on muscle plasticity in a mouse model of cervical spinal cord injury. 2021 , 11, 112		1

91	Scar tissue removal-activated endogenous neural stem cells aid Taxol-modified collagen scaffolds in repairing chronic long-distance transected spinal cord injury. 2021 , 9, 4778-4792		4
90	Acute Traumatic Spinal Cord Injury in Humans, Dogs, and Other Mammals: The Under-appreciated Role of the Dura. 2021 , 12, 629445		3
89	Design and Evaluation of an In Vitro Mild Traumatic Brain Injury Modeling System Using 3D Printed Mini Impact Device on the 3D Cultured Human iPSC Derived Neural Progenitor Cells. 2021 , 10, e2100180		5
88	Use of Mesenchymal Stem Cells in Pre-Clinical Models of Spinal Cord Injury.		0
87	Rationally Designed, Self-Assembling, Multifunctional Hydrogel Depot Repairs Severe Spinal Cord Injury. 2021 , 10, e2100242		3
86	Mesenchymal stem cells and extracellular vesicles for the treatment of pain: Current status and perspectives. 2021 ,		0
85	Refinement of the spinal cord injury rat model and validation of its applicability as a model for memory loss and chronic pain. 2021 , 7, e07500		0
84	Mesenchymal Stem Cells in Treatment of Spinal Cord Injury and Amyotrophic Lateral Sclerosis. 2021 , 9, 695900		8
83	Systematic review of the impact of cannabinoids on neurobehavioral outcomes in preclinical models of traumatic and nontraumatic spinal cord injury. <i>Spinal Cord</i> , 2021 , 59, 1221-1239	2.7	0
82	How to generate graded spinal cord injuries in swine - tools and procedures. 2021 , 14,		1
81	Corticospinal Motor Circuit Plasticity After Spinal Cord Injury: Harnessing Neuroplasticity to Improve Functional Outcomes. 2021 , 58, 5494-5516		0
80	The Histopathology of Severe Graded Compression in Lower Thoracic Spinal Cord Segment of Rat, Evaluated at Late Post-injury Phase. <i>Cellular and Molecular Neurobiology</i> , 2021 , 1	4.6	2
79	Nanoparticles in traumatic spinal cord injury: therapy and diagnosis. 10, 850		0
78	Therapeutic targets and nanomaterial-based therapies for mitigation of secondary injury after spinal cord injury. 2021 , 16, 2013-2028		2
77	Histological Findings After Aortic Cross-Clamping in Preclinical Animal Models. 2021 , 80, 895-911		2
76	Spinal Cord Injury-Induced Changes in Encoding and Decoding of Bipedal Walking by Motor Cortical Ensembles. <i>Brain Sciences</i> , 2021 , 11,	3.4	
75	Modeling spinal cord injuries: advantages and disadvantages. 2020 , 8, 485-494		
74	Comparative neuroanatomy of the lumbosacral spinal cord of the rat, cat, pig, monkey, and human. 2021 , 11, 1955		7

73	Trends, Challenges, and Opportunities Regarding Research in Non-traumatic Spinal Cord Dysfunction. 2017 , 23, 313-323		7
72	Elevated TRPV4 Levels Contribute to Endothelial Damage and Scarring in Experimental Spinal Cord Injury. 2020 , 40, 1943-1955		16
71	Sacral Spinal Cord Transection and Isolated Sacral Cord Preparation to Study Chronic Spinal Cord Injury in Adult Mice. 2018 , 8, e2784		6
70	The fate of neurons after traumatic spinal cord injury in rats: A systematic review. 2018 , 21, 546-557		17
69	Effects of decompression joint Governor Vessel electro-acupuncture on rats with acute upper cervical spinal cord injury. <i>Neural Regeneration Research</i> , 2018 , 13, 1241-1246	4-5	4
68	Differences in neuroplasticity after spinal cord injury in varying animal models and humans. <i>Neural Regeneration Research</i> , 2019 , 14, 7-19	4-5	30
67	Expression of long non-coding RNAs in complete transection spinal cord injury: a transcriptomic analysis. <i>Neural Regeneration Research</i> , 2020 , 15, 1560-1567	4-5	13
66	Analysis and comparison of a spinal cord injury model with a single-axle-lever clip or a parallel-moving clip compression in rats. <i>Spinal Cord</i> , 2021 ,	2-7	0
65	Somatosensory corticospinal tract axons sprout within the cervical cord following a dorsal root/dorsal column spinal injury in the rat.		
64	Comparative Neuroanatomy of the Lumbosacral Spinal Cord of the Rat, Cat, Pig, Monkey, and Human.		0
63	Selective Myostatin Inhibition Spares Sublesional Muscle Mass and Myopenia-Related Dysfunction after Severe Spinal Cord Contusion in Mice. 2021 ,		0
62	Spinal stabilisation using a polyvinilidene (Lubra) plate in a pot-bellied pig. 2020 , 8, e000990		
61	Klip-kompresyon ve alle time modelleriyle oluşturulmuş deneysel omurilik yaralanması modellerinde oksidan-antioksidan parametrelerin analizi. 775-783		
60	Role of Dehydrocorybulbine in Neuropathic Pain After Spinal Cord Injury Mediated by P2X4 Receptor. 2019 , 42, 143-150		4
59	Frailty and pain, human studies and animal models. 2021 , 73, 101515		0
58	Functional hydrogels as therapeutic tools for spinal cord injury: New perspectives on immunopharmacological interventions. 2021 , 108043		3
57	Cell transplantation and secretome based approaches in spinal cord injury regenerative medicine. 2021 ,		2
56	Advances in Biomaterial-Based Spinal Cord Injury Repair. 2110628		3

55	Automated Lever Task with Minimum Antigravity Movement for Rats with Cervical Spinal Cord Injury. 2021 , 366, 109433		1
54	Stem cell treatment trials of spinal cord injuries in animals.. 2021 , 238, 102932		1
53	Effects of Polyphenols on Oxidative Stress, Inflammation, and Interconnected Pathways during Spinal Cord Injury.. 2022 , 2022, 8100195		6
52	Immunomodulatory and regenerative effects of the full and fractioned adipose tissue derived stem cells secretome in spinal cord injury.. <i>Experimental Neurology</i> , 2022 , 113989	5.7	1
51	Rehabilitative training improves skilled forelimb motor function after cervical unilateral contusion spinal cord injury in rats.. 2021 , 422, 113731		
50	A modified impactor for establishing a graded contusion spinal cord injury model in rats.. 2022 , 10, 436		1
49	Translational research in spinal cord injury [What is in the future?]. 2022 , 587-602		
48	Spinal cord bioelectronic interfaces: opportunities in neural recording and clinical challenges.. 2022 ,		
47	Therapeutic Effect of Exosomes Derived From Stem Cells in Spinal Cord Injury: A Systematic Review Based on Animal Studies.. 2022 , 13, 847444		0
46	Human Epidural AD-MSC Exosomes Improve Function Recovery after Spinal Cord Injury in Rats.. 2022 , 10,		2
45	Systematic Evaluation of Spinal Cord Injury Animal Models in the Field of Biomaterials.. 2021 ,		0
44	Pyrrole Plasma Polymer-Coated Fibrillar Scaffold Implant: Pilot Study in Rat Spinal Cord Transection with MRI. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2021 , 2021, 1218-1221	0.9	
43	Effects of Resistance Training on Oxidative Stress Markers and Muscle Damage in Spinal Cord Injured Rats.. <i>Biology</i> , 2021 , 11,	4.9	0
42	A long-term survival rat model of spinal cord ischemia injury: Thoracic aortic occlusion combined with aortic bypass circulation. <i>Vascular</i> , 2021 , 17085381211060172	1.3	
41	A Simple and Cost-Effective Weight Drop Model to Induce Contusive Spinal Cord Injury: Functional and Histological Outcomes. <i>Archives of Neuroscience</i> , 2021 , In Press,	1.2	0
40	A review on the models and evaluating tests of the spinal cord injury in rats. <i>The Neuroscience Journal of Shefaye Khatam</i> , 2020 , 9, 166-188	0.1	
39	A New Framework for Investigating the Biological Basis of Degenerative Cervical Myelopathy [AO Spine RECODE-DCM Research Priority Number 5]: Mechanical Stress, Vulnerability and Time.. <i>Global Spine Journal</i> , 2022 , 12, 785-965	2.7	1
38	Genetic animal modeling for idiopathic scoliosis research: history and considerations.. <i>Spine Deformity</i> , 2022 , 1	2	0

37	Markerless tracking enables distinction between strategic compensation and functional recovery after spinal cord injury.. <i>Experimental Neurology</i> , 2022 , 114085	5.7	
36	Early mobilization in spinal cord injury promotes changes in microglial dynamics and recovery of motor function.. <i>IBRO Neuroscience Reports</i> , 2022 , 12, 366-376		0
35	Effect of Valproic Acid on NLR Family Pyrin Domain Containing 1/3 (NLRP1/3) Inflammasome in Rats with Acute Spinal Cord Injury. <i>Journal of Biomaterials and Tissue Engineering</i> , 2022 , 12, 1202-1208	0.3	
34	Correlation Analysis Between Magnetic Resonance Imaging-Based Anatomical Assessment and Behavioral Outcome in a Rat Contusion Model of Chronic Thoracic Spinal Cord Injury.. <i>Frontiers in Neuroscience</i> , 2022 , 16, 838786	5.1	
33	Calpain role in the pathophysiology of spasticity after spinal cord injury. 2022 , 249-261		
32	Effectiveness of biomaterial-based combination strategies for spinal cord repair in a systematic review and meta-analysis of preclinical literature. <i>Spinal Cord</i> ,	2.7	0
31	The Role of Tumor Necrosis Factor Following Spinal Cord Injury: A Systematic Review. <i>Cellular and Molecular Neurobiology</i> ,	4.6	0
30	Characterization of Ex Vivo and In Vitro Wnt Transcriptome Induced by Spinal Cord Injury in Rat Microglial Cells. <i>Brain Sciences</i> , 2022 , 12, 708	3.4	1
29	The role of spinal cord tractography in detecting lesions following selective bladder afferent and efferent fibers: A novel method for induction of neurogenic lower urinary tract dysfunction in rabbit. <i>Neurourology and Urodynamics</i> ,	2.3	1
28	The potential of gene therapies for spinal cord injury repair: a systematic review and meta-analysis of pre-clinical studies. <i>Neural Regeneration Research</i> , 2023 , 18, 299	4.5	2
27	An Injectable Rapid-Adhesion and Anti-Swelling Adhesive Hydrogel for Hemostasis and Wound Sealing. 2207741		3
26	Rehabilitation combined with neural progenitor cell grafts enables functional recovery in chronic spinal cord injury. 2022 , 7,		1
25	The immune microenvironment and tissue engineering strategies for spinal cord regeneration. 16,		0
24	The roles and applications of neural stem cells in spinal cord injury repair. 10,		1
23	Molecular Identification of Pro-Excitogenic Receptor and Channel Phenotypes of the Deafferented Lumbar Motoneurons in the Early Phase after SCT in Rats. 2022 , 23, 11133		0
22	Animal models of compression spinal cord injury.		0
21	Fighting for recovery on multiple fronts: The past, present, and future of clinical trials for spinal cord injury. 16,		1
20	Motor rehabilitation as a therapeutic tool for spinal cord injury: New perspectives in immunomodulation. 2022 ,		0

- 19 A Critical Comparison of Comparators Used to Demonstrate Credibility of Physics-Based Numerical Spine Models. ○
- 18 A survival model of thoracic contusion spinal cord injury in the domestic pig. ○
- 17 The Impact of Activity-Based Interventions on Neuropathic Pain in Experimental Spinal Cord Injury. **2022**, 11, 3087 1
- 16 A functionalized collagen-I scaffold delivers microRNA 21-loaded exosomes for spinal cord injury repair. **2022**, ○
- 15 Long-term administration of bumetanide improve functional recovery after spinal cord injury in rats. 13, ○
- 14 Rodent Models of Spinal Cord Injury: From Pathology to Application. ○
- 13 Porcine spinal cord injury model for translational research across multiple functional systems. **2023**, 359, 114267 ○
- 12 Impact of cranial bone-derived mesenchymal stem cell transplantation for functional recovery in experimental spinal cord injury. ○
- 11 Protocol paper: kainic acid excitotoxicity-induced spinal cord injury paraplegia in SpragueDawley rats. **2022**, 55, ○
- 10 In vivo imaging of axonal transport in peripheral nerves of rodent forelimbs. **2023**, 7, ○
- 9 Molecular Mechanism Operating in Animal Models of Neurogenic Detrusor Overactivity: A Systematic Review Focusing on Bladder Dysfunction of Neurogenic Origin. **2023**, 24, 3273 ○
- 8 Edema after CNS Trauma: A Focus on Spinal Cord Injury. **2023**, 24, 7159 ○
- 7 The application of 3D-bioprinted scaffolds for neuronal regeneration after traumatic spinal cord injury |A systematic review of preclinical in vivo studies. **2023**, 363, 114366 ○
- 6 Electrical stimulation for the treatment of spinal cord injuries: A review of the cellular and molecular mechanisms that drive functional improvements. 17, ○
- 5 The potential effects of polyunsaturated B fatty acids on spinal cord injury: A systematic review & meta-analysis of preclinical evidence. **2023**, 191, 102554 ○
- 4 Integration of multiple prognostic predictors in a porcine spinal cord injury model: A further step closer to reality. 14, ○
- 3 Which treatment provides the best neurological outcomes in acute spinal cord injury?. **2023**, 105-B, 347-355 1
- 2 Systemic vascular photobiomodulation accelerates the recovery of motor activity in rats following spinal cord injury. ○

1 A finite element model of contusion spinal cord injury in rodents. **2023**, 105856

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