

# Sung-Rae Cho

## List of Publications by Year in descending order

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115  
papers

2,766  
citations

201575

27  
h-index

223716

46  
g-index

121  
all docs

121  
docs citations

121  
times ranked

4202  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surrogate reporters for enrichment of cells with nuclease-induced mutations. <i>Nature Methods</i> , 2011, 8, 941-943.	9.0	192
2	Prediction of the sequence-specific cleavage activity of Cas9 variants. <i>Nature Biotechnology</i> , 2020, 38, 1328-1336.	9.4	133
3	Targeted inversion and reversion of the blood coagulation factor 8 gene in human iPSC cells using TALENs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9253-9258.	3.3	129
4	Induction of neostriatal neurogenesis slows disease progression in a transgenic murine model of Huntington disease. <i>Journal of Clinical Investigation</i> , 2007, 117, 2889-2902.	3.9	119
5	Motor pathway injury in patients with periventricular leucomalacia and spastic diplegia. <i>Brain</i> , 2011, 134, 1199-1210.	3.7	113
6	Application of prime editing to the correction of mutations and phenotypes in adult mice with liver and eye diseases. <i>Nature Biomedical Engineering</i> , 2022, 6, 181-194.	11.6	92
7	Three-dimensional brain-like microenvironments facilitate the direct reprogramming of fibroblasts into therapeutic neurons. <i>Nature Biomedical Engineering</i> , 2018, 2, 522-539.	11.6	86
8	Functional Recovery after the Transplantation of Neurally Differentiated Mesenchymal Stem Cells Derived from Bone Marrow in a Rat Model of Spinal Cord Injury. <i>Cell Transplantation</i> , 2009, 18, 1359-1368.	1.2	79
9	Recapitulation of inÂvivo-like paracrine signals of human mesenchymal stem cells for functional neuronal differentiation of human neural stem cells in a 3D microfluidic system. <i>Biomaterials</i> , 2015, 63, 177-188.	5.7	67
10	Colonic transit time and constipation in children with spastic cerebral palsy. <i>Archives of Physical Medicine and Rehabilitation</i> , 2004, 85, 453-456.	0.5	61
11	The characteristics of sit-to-stand transfer in young children with spastic cerebral palsy based on kinematic and kinetic data. <i>Gait and Posture</i> , 2003, 17, 43-49.	0.6	60
12	Highly Pure and Expandable PSA-NCAM-Positive Neural Precursors from Human ESC and iPSC-Derived Neural Rosettes. <i>PLoS ONE</i> , 2012, 7, e39715.	1.1	59
13	Fibroblast Growth Factor-2 Induced by Enriched Environment Enhances Angiogenesis and Motor Function in Chronic Hypoxic-Ischemic Brain Injury. <i>PLoS ONE</i> , 2013, 8, e74405.	1.1	52
14	Differential effects of rhythmic auditory stimulation and neurodevelopmental treatment/Bobath on gait patterns in adults with cerebral palsy: a randomized controlled trial. <i>Clinical Rehabilitation</i> , 2012, 26, 904-914.	1.0	51
15	Alteration of Synaptic Activityâ€“Regulating Genes Underlying Functional Improvement by Long-term Exposure to an Enriched Environment in the Adult Brain. <i>Neurorehabilitation and Neural Repair</i> , 2013, 27, 561-574.	1.4	50
16	Acoustic characteristics of vowel sounds in patients with Parkinson disease. <i>NeuroRehabilitation</i> , 2013, 32, 649-654.	0.5	48
17	Generation of a more efficient prime editor 2 by addition of the Rad51 DNA-binding domain. <i>Nature Communications</i> , 2021, 12, 5617.	5.8	47
18	Therapeutic effects of repetitive transcranial magnetic stimulation in an animal model of Parkinson's disease. <i>Brain Research</i> , 2013, 1537, 290-302.	1.1	43

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19	Neurorestoration Induced by Mesenchymal Stem Cells: Potential Therapeutic Mechanisms for Clinical Trials. <i>Yonsei Medical Journal</i> , 2012, 53, 1059.	0.9	41
20	Effect of Rhythmic Auditory Stimulation on Hemiplegic Gait Patterns. <i>Yonsei Medical Journal</i> , 2015, 56, 1703.	0.9	34
21	Changes in gait patterns with rhythmic auditory stimulation in adults with cerebral palsy. <i>NeuroRehabilitation</i> , 2011, 29, 233-241.	0.5	33
22	Astroglial Activation by an Enriched Environment after Transplantation of Mesenchymal Stem Cells Enhances Angiogenesis after Hypoxic-Ischemic Brain Injury. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1550.	1.8	33
23	Neurally induced umbilical cord blood cells modestly repair injured spinal cords. <i>NeuroReport</i> , 2008, 19, 1259-1263.	0.6	32
24	Environmental enrichment enhances synaptic plasticity by internalization of striatal dopamine transporters. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 2122-2133.	2.4	31
25	The Differential Effects of Repetitive Magnetic Stimulation in an In Vitro Neuronal Model of Ischemia/Reperfusion Injury. <i>Frontiers in Neurology</i> , 2018, 9, 50.	1.1	31
26	Differential Expression of Extracellular Matrix and Adhesion Molecules in Fetal-Origin Amniotic Epithelial Cells of Preeclamptic Pregnancy. <i>PLoS ONE</i> , 2016, 11, e0156038.	1.1	30
27	Recording of elapsed time and temporal information about biological events using Cas9. <i>Cell</i> , 2021, 184, 1047-1063.e23.	13.5	29
28	Analysis of structure–function network decoupling in the brain systems of spastic diplegic cerebral palsy. <i>Human Brain Mapping</i> , 2017, 38, 5292-5306.	1.9	28
29	Effect of extracorporeal shock wave therapy on scar pain in burn patients. <i>Medicine (United States)</i> , 2016, 95, e4575.	0.4	27
30	Outcomes of intrathecal baclofen therapy in patients with cerebral palsy and acquired brain injury. <i>Medicine (United States)</i> , 2017, 96, e7472.	0.4	27
31	Elucidation of Gene Expression Patterns in the Brain after Spinal Cord Injury. <i>Cell Transplantation</i> , 2017, 26, 1286-1300.	1.2	26
32	Relationship Between Swallowing Function and Maximum Phonation Time in Patients With Parkinsonism. <i>Annals of Rehabilitation Medicine</i> , 2018, 42, 425-432.	0.6	26
33	Finger exercise with keyboard playing in adults with cerebral palsy: A preliminary study. <i>Journal of Exercise Rehabilitation</i> , 2013, 9, 420-425.	0.4	25
34	Elucidation of Relevant Neuroinflammation Mechanisms Using Gene Expression Profiling in Patients with Amyotrophic Lateral Sclerosis. <i>PLoS ONE</i> , 2016, 11, e0165290.	1.1	25
35	Two-Year Outcomes of Deep Brain Stimulation in Adults With Cerebral Palsy. <i>Annals of Rehabilitation Medicine</i> , 2014, 38, 209.	0.6	24
36	Universal Correction of Blood Coagulation Factor VIII in Patient-Derived Induced Pluripotent Stem Cells Using CRISPR/Cas9. <i>Stem Cell Reports</i> , 2019, 12, 1242-1249.	2.3	23

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37	Changes in Hyolaryngeal Movement and Swallowing Function After Neuromuscular Electrical Stimulation in Patients With Dysphagia. <i>Annals of Rehabilitation Medicine</i> , 2015, 39, 199.	0.6	23
38	Effects of constraintâ€induced movement therapy on neurogenesis and functional recovery after early hypoxicâ€ischemic injury in mice. <i>Developmental Medicine and Child Neurology</i> , 2011, 53, 327-333.	1.1	22
39	An Enriched Environment Ameliorates Oxidative Stress and Olfactory Dysfunction in Parkinsonâ€™s Disease with Î±-Synucleinopathy. <i>Cell Transplantation</i> , 2018, 27, 831-839.	1.2	22
40	High-Frequency Repetitive Magnetic Stimulation Enhances the Expression of Brain-Derived Neurotrophic Factor Through Activation of Ca <sup>2+</sup> -Calmodulin-Dependent Protein Kinase IIâ€cAMP-Response Element-Binding Protein Pathway. <i>Frontiers in Neurology</i> , 2018, 9, 285.	1.1	22
41	Characteristics of psychosexual functioning in adults with cerebral palsy. <i>Clinical Rehabilitation</i> , 2004, 18, 423-429.	1.0	21
42	PSA-NCAM+ Neural Precursor Cells from Human Embryonic Stem Cells Promote Neural Tissue Integrity and Behavioral Performance in A Rat Stroke Model. <i>Stem Cell Reviews and Reports</i> , 2014, 10, 761-771.	5.6	21
43	Induction of Neurorestoration from Endogenous Stem Cells. <i>Cell Transplantation</i> , 2016, 25, 863-882.	1.2	21
44	Effect of Polydeoxyribonucleotide on Angiogenesis and Wound Healing in an <i>In Vitro</i> Model of Osteoarthritis. <i>Cell Transplantation</i> , 2018, 27, 1623-1633.	1.2	21
45	Reconstruction of Muscle Fascicleâ€Like Tissues by Anisotropic 3D Patterning. <i>Advanced Functional Materials</i> , 2021, 31, 2006227.	7.8	21
46	Adults with spastic cerebral palsy have lower bone mass than those with dyskinetic cerebral palsy. <i>Bone</i> , 2015, 71, 89-93.	1.4	20
47	Patients with non-ambulatory cerebral palsy have higher sclerostin levels and lower bone mineral density than patients with ambulatory cerebral palsy. <i>Bone</i> , 2017, 103, 302-307.	1.4	20
48	Effects of low- and high-frequency repetitive magnetic stimulation on neuronal cell proliferation and growth factor expression: A preliminary report. <i>Neuroscience Letters</i> , 2015, 604, 167-172.	1.0	19
49	Exploring Erythropoietin and G-CSF Combination Therapy in Chronic Stroke Patients. <i>International Journal of Molecular Sciences</i> , 2016, 17, 463.	1.8	19
50	Anti-inflammatory Effect of DNA Polymeric Molecules in a Cell Model of Osteoarthritis. <i>Inflammation</i> , 2018, 41, 677-688.	1.7	18
51	Environmental Enrichment Synergistically Improves Functional Recovery by Transplanted Adipose Stem Cells in Chronic Hypoxic-Ischemic Brain Injury. <i>Cell Transplantation</i> , 2013, 22, 1553-1568.	1.2	17
52	Optogenetic stimulation promotes Schwann cell proliferation, differentiation, and myelination in vitro. <i>Scientific Reports</i> , 2019, 9, 3487.	1.6	17
53	Early Immunomodulation by Intravenously Transplanted Mesenchymal Stem Cells Promotes Functional Recovery in Spinal Cord Injured Rats. <i>Cell Medicine</i> , 2011, 2, 55-68.	5.0	16
54	<i>In Vivo</i> Expression of Reprogramming Factors Increases Hippocampal Neurogenesis and Synaptic Plasticity in Chronic Hypoxic-Ischemic Brain Injury. <i>Neural Plasticity</i> , 2016, 2016, 1-11.	1.0	16

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55	Changes in gait patterns induced by rhythmic auditory stimulation for adolescents with acquired brain injury. <i>Annals of the New York Academy of Sciences</i> , 2016, 1385, 53-62.	1.8	16
56	Short-term effects of erythropoietin on neurodevelopment in infants with cerebral palsy: A pilot study. <i>Brain and Development</i> , 2014, 36, 764-769.	0.6	15
57	Swallowing Outcomes Following Voice Therapy in Multiple System Atrophy with Dysphagia: Comparison of Treatment Efficacy with Parkinson's Disease. <i>Dysphagia</i> , 2022, 37, 198-206.	1.0	15
58	The Modulation of Neurotrophin and Epigenetic Regulators: Implication for Astrocyte Proliferation and Neuronal Cell Apoptosis After Spinal Cord Injury. <i>Annals of Rehabilitation Medicine</i> , 2016, 40, 559.	0.6	15
59	Gait training for adults with cerebral palsy following harmonic modification in rhythmic auditory stimulation. <i>Annals of the New York Academy of Sciences</i> , 2020, 1473, 11-19.	1.8	14
60	3-O-Sialyllactose Protects SW1533 Chondrocytic Cells From Interleukin-1 $\beta$ -Induced Oxidative Stress and Inflammation. <i>Frontiers in Pharmacology</i> , 2021, 12, 609817.	1.6	14
61	In Situ Pluripotency Factor Expression Promotes Functional Recovery From Cerebral Ischemia. <i>Molecular Therapy</i> , 2016, 24, 1538-1549.	3.7	13
62	Environmental Enrichment Attenuates Oxidative Stress and Alters Detoxifying Enzymes in an A53T $\alpha$ -Synuclein Transgenic Mouse Model of Parkinson's Disease. <i>Antioxidants</i> , 2020, 9, 928.	2.2	13
63	Reduced Interaction of Aggregated $\alpha$ -Synuclein and VAMP2 by Environmental Enrichment Alleviates Hyperactivity and Anxiety in a Model of Parkinson's Disease. <i>Genes</i> , 2021, 12, 392.	1.0	13
64	Factors Affecting Bone Mineral Density in Adults with Cerebral Palsy. <i>Annals of Rehabilitation Medicine</i> , 2012, 36, 770.	0.6	13
65	Age-Related Changes in Bimanual Instrument Playing with Rhythmic Cueing. <i>Frontiers in Psychology</i> , 2017, 8, 1569.	1.1	12
66	The Applicability of Rhythm-Motor Tasks to a New Dual Task Paradigm for Older Adults. <i>Frontiers in Neurology</i> , 2017, 8, 671.	1.1	12
67	Effects of Early Exercise Rehabilitation on Functional Recovery in Patients with Severe Sepsis. <i>Yonsei Medical Journal</i> , 2018, 59, 843.	0.9	12
68	The Effect of Bilateral Globus Pallidus Internus Deep Brain Stimulation plus Ventralis Oralis Thalamotomy on Patients with Cerebral Palsy. <i>Stereotactic and Functional Neurosurgery</i> , 2012, 90, 292-299.	0.8	11
69	Hand rehabilitation using MIDI keyboard playing in adolescents with brain damage: A preliminary study. <i>NeuroRehabilitation</i> , 2014, 34, 147-155.	0.5	11
70	Effects of pain Scrambler therapy for management of burn scar pruritus: A pilot study. <i>Burns</i> , 2017, 43, 514-519.	1.1	11
71	The Effect of Treadmill Exercise on Gait Efficiency During Overground Walking in Adults With Cerebral Palsy. <i>Annals of Rehabilitation Medicine</i> , 2015, 39, 25.	0.6	11
72	Time-dependent effect of combination therapy with erythropoietin and granulocyte colony-stimulating factor in a mouse model of hypoxic-ischemic brain injury. <i>Neuroscience Bulletin</i> , 2014, 30, 107-117.	1.5	10

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73	A Validation Study of the Korean Version of the Swallowing-Quality of Life Scale. <i>Communication Sciences and Disorders</i> , 2013, 18, 341-347.	0.1	10
74	InÂvivo gene editing via homology-independent targeted integration for adrenoleukodystrophy treatment. <i>Molecular Therapy</i> , 2022, 30, 119-129.	3.7	9
75	Clinical and Pathological Heterogeneity of Korean Patients with <i>CAPN3</i> Mutations. <i>Yonsei Medical Journal</i> , 2016, 57, 173.	0.9	7
76	Environmental Enrichment Upregulates Striatal Synaptic Vesicle-Associated Proteins and Improves Motor Function. <i>Frontiers in Neurology</i> , 2018, 9, 465.	1.1	7
77	The Effect of Environmental Enrichment on Glutathione-Mediated Xenobiotic Metabolism and Antioxidation in Normal Adult Mice. <i>Frontiers in Neurology</i> , 2018, 9, 425.	1.1	7
78	Intrathecal Baclofen Pump Versus Globus Pallidus Interna Deep Brain Stimulation in Adult Patients with Severe Cerebral Palsy. <i>World Neurosurgery</i> , 2019, 126, e550-e556.	0.7	7
79	Factors affecting cognition and emotion in patients with traumatic brain injury. <i>NeuroRehabilitation</i> , 2020, 46, 369-379.	0.5	7
80	GABAergic neuronal differentiation induced by brain-derived neurotrophic factor in human mesenchymal stem cells. <i>Animal Cells and Systems</i> , 2014, 18, 17-24.	0.8	6
81	Neurobehavioral Assessments in a Mouse Model of Neonatal Hypoxic-ischemic Brain Injury. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	6
82	The Schwann Cell as an Active Synaptic Partner. <i>ChemPhysChem</i> , 2018, 19, 1123-1127.	1.0	6
83	CRISPR-mediated gene correction links the ATP7A M1311V mutations with amyotrophic lateral sclerosis pathogenesis in one individual. <i>Communications Biology</i> , 2020, 3, 33.	2.0	6
84	Short-term and Long-term Efficacy of Oropharyngolaryngeal Strengthening Training on Voice Using a Mobile Healthcare Application in Elderly Women. <i>Communication Sciences and Disorders</i> , 2021, 26, 219-230.	0.1	6
85	Development of Short-Form of the Speech Handicap Index and Its Application to Tongue Cancer Patients. <i>Communication Sciences and Disorders</i> , 2018, 23, 218-227.	0.1	6
86	Brain Plasticity and Neurorestoration by Environmental Enrichment. <i>Brain &amp; Neurorehabilitation</i> , 2016, 9, .	0.4	5
87	Characterization of Drug-Resistant Lipid-Dependent Differentially Detectable <i>Mycobacterium tuberculosis</i> . <i>Journal of Clinical Medicine</i> , 2021, 10, 3249.	1.0	5
88	Therapeutic Singing as a Swallowing Intervention in Head and Neck Cancer Patients With Dysphagia. <i>Integrative Cancer Therapies</i> , 2021, 20, 153473542110650.	0.8	5
89	Parasympathetic Effect Induces Cell Cycle Activation in Upper Limbs of Paraplegic Patients with Spinal Cord Injury. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5982.	1.8	4
90	Environmental Enrichment Enhances Cav 2.1 Channel-Mediated Presynaptic Plasticity in Hypoxicâ€“Ischemic Encephalopathy. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3414.	1.8	4

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91	Does Etiology Matter? Comparative Analysis of a Singing-Enhanced Swallowing Protocol for Patients with Neurological Impairment versus Head and Neck Cancer. <i>Brain Sciences</i> , 2021, 11, 997.	1.1	4
92	Word Lexicality- and Regularity-Dependent Alexia in Alzheimer's Disease. <i>Communication Sciences and Disorders</i> , 2017, 22, 129-137.	0.1	4
93	Effects of Balance Training Using a Virtual Reality Program in Hemiplegic Patients. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 2805.	1.2	4
94	Clinical Outcomes of Correcting Cervical Deformity in Cerebral Palsy Patients. <i>World Neurosurgery</i> , 2016, 96, 500-509.	0.7	3
95	In Vivo Expression of Reprogramming Factor OCT4 Ameliorates Myelination Deficits and Induces Striatal Neuroprotection in Huntington's Disease. <i>Genes</i> , 2021, 12, 712.	1.0	3
96	Epigenetic Regulation in the Brain after Spinal Cord Injury : A Comparative Study. <i>Journal of Korean Neurosurgical Society</i> , 2013, 53, 337.	0.5	3
97	Combined Therapy of Orthopedic Surgery after Deep Brain Stimulation in Cerebral Palsy Mixed Type - A Case Report -. <i>Annals of Rehabilitation Medicine</i> , 2011, 35, 742.	0.6	3
98	Low-frequency repetitive magnetic stimulation suppresses neuroblastoma progression by downregulating the Wnt/ $\beta$ -catenin signaling pathway. <i>Bioelectrochemistry</i> , 2022, 147, 108205.	2.4	3
99	Reelin Alleviates Mesenchymal Stem Cell Senescence and Reduces Pathological $\alpha$ -Synuclein Expression in an In Vitro Model of Parkinson's Disease. <i>Genes</i> , 2021, 12, 1066.	1.0	2
100	Numerical Processing and Calculation Deficits in Alzheimer's Disease. <i>Communication Sciences and Disorders</i> , 2017, 22, 138-145.	0.1	2
101	Cell Surface Antigen Display for Neuronal Differentiation-Specific Tracking. <i>Biomolecules and Therapeutics</i> , 2019, 27, 78-84.	1.1	2
102	Environmental Enrichment and Estrogen Upregulate Beta-Hydroxybutyrate Underlying Functional Improvement. <i>Frontiers in Molecular Neuroscience</i> , 2022, 15, 869799.	1.4	2
103	Purification of an Intact Human Protein Overexpressed from Its Endogenous Locus via Direct Genome Engineering. <i>ACS Synthetic Biology</i> , 2020, 9, 1591-1598.	1.9	1
104	Factors Affecting Postoperative Complications and Outcomes of Cervical Spondylotic Myelopathy with Cerebral Palsy : A Retrospective Analysis. <i>Journal of Korean Neurosurgical Society</i> , 2021, 64, 808-817.	0.5	1
105	Outcomes of Intrathecal Baclofen Therapy Compared With Deep Brain Stimulation in a Patient With Dystonic Cerebral Palsy: A Case Report. <i>Annals of Rehabilitation Medicine</i> , 2019, 43, 335-340.	0.6	1
106	Application of the Speech Handicap Index on Patients with Parkinson's Disease. <i>Communication Sciences and Disorders</i> , 2018, 23, 160-168.	0.1	1
107	Balance and Coordination Training for Brain Disorders. <i>Brain &amp; Neurorehabilitation</i> , 2013, 6, 68.	0.4	0
108	Dose-dependent Changes in Gait Pattern after Intrathecal Baclofen Bolus Injection in Adult Ambulatory Cerebral Palsy: A Case Report. <i>Brain &amp; Neurorehabilitation</i> , 2015, 8, 104.	0.4	0

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109	Generation of a human induced pluripotent stem cell line, YCMi002-A, from a Factor VII deficiency patient carrying F7 mutations. <i>Stem Cell Research</i> , 2020, 49, 102026.	0.3	0
110	Pelizaeus-Merzbacher Disease with PLP1 Exon 1 Duplication, Previously Misdiagnosed as Cerebral Palsy: a Case Report. <i>Brain &amp; Neurorehabilitation</i> , 2021, 14, .	0.4	0
111	Collagen-binding peptide reverses bone loss in a mouse model of cerebral palsy based on clinical databases. <i>Annals of Physical and Rehabilitation Medicine</i> , 2021, 64, 101445.	1.1	0
112	Utterance-Level Word Class Characteristics in Normal Elderly Women. <i>Communication Sciences and Disorders</i> , 2014, 19, 265-273.	0.1	0
113	Acoustic and Auditory-Perceptual Characteristics of Korean Stop Consonants in Patients with Idiopathic Parkinson's Disease and Cerebellar-Multiple System Atrophy. <i>Communication Sciences and Disorders</i> , 2020, 25, 954-965.	0.1	0
114	Juvenile Parkinsonism with PARK2 Gene Mutation Misdiagnosed as Dopa-responsive Dystonia: a Case Report. <i>Brain &amp; Neurorehabilitation</i> , 2020, 13, .	0.4	0
115	Chromosomal Deletion in 7q31.2-31.32 Involving <i>Ca<sup>2+</sup>-Dependent Activator Protein for Secretion</i> Gene in a Patient with Cerebellar Ataxia: a Case Report. <i>Brain &amp; Neurorehabilitation</i> , 2020, 13, .	0.4	0