

# Sung-Rae Cho

## List of Publications by Citations

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109  
papers

1,927  
citations

22  
h-index

39  
g-index

121  
ext. papers

2,396  
ext. citations

5.1  
avg, IF

4.8  
L-index

#	Paper	IF	Citations
109	Surrogate reporters for enrichment of cells with nuclease-induced mutations. <i>Nature Methods</i> , <b>2011</b> , 8, 941-3	21.6	164
108	Targeted inversion and reversion of the blood coagulation factor 8 gene in human iPS cells using TALENs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 9253-8	11.5	113
107	Induction of neostriatal neurogenesis slows disease progression in a transgenic murine model of Huntington disease. <i>Journal of Clinical Investigation</i> , <b>2007</b> , 117, 2889-902	15.9	109
106	Motor pathway injury in patients with periventricular leucomalacia and spastic diplegia. <i>Brain</i> , <b>2011</b> , 134, 1199-210	11.2	95
105	Three-dimensional brain-like microenvironments facilitate the direct reprogramming of fibroblasts into therapeutic neurons. <i>Nature Biomedical Engineering</i> , <b>2018</b> , 2, 522-539	19	61
104	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> , <b>2009</b> , 18, 1359-68	4	61
103	Prediction of the sequence-specific cleavage activity of Cas9 variants. <i>Nature Biotechnology</i> , <b>2020</b> , 38, 1328-1336	44.5	57
102	Recapitulation of in vivo-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> , <b>2015</b> , 63, 177-88	15.6	56
101	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> , <b>2003</b> , 17, 43-9	2.6	54
100	Highly pure and expandable PSA-NCAM-positive neural precursors from human ESC and iPSC-derived neural rosettes. <i>PLoS ONE</i> , <b>2012</b> , 7, e39715	3.7	51
99	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> , <b>2012</b> , 26, 904-14	3.3	41
98	Fibroblast growth factor-2 induced by enriched environment enhances angiogenesis and motor function in chronic hypoxic-ischemic brain injury. <i>PLoS ONE</i> , <b>2013</b> , 8, e74405	3.7	40
97	Alteration of synaptic activity-regulating genes underlying functional improvement by long-term exposure to an enriched environment in the adult brain. <i>Neurorehabilitation and Neural Repair</i> , <b>2013</b> , 27, 561-74	4.7	38
96	Colonic transit time and constipation in children with spastic cerebral palsy. <i>Archives of Physical Medicine and Rehabilitation</i> , <b>2004</b> , 85, 453-6	2.8	38
95	Acoustic characteristics of vowel sounds in patients with Parkinson disease. <i>NeuroRehabilitation</i> , <b>2013</b> , 32, 649-54	2	35
94	Neurorestoration induced by mesenchymal stem cells: potential therapeutic mechanisms for clinical trials. <i>Yonsei Medical Journal</i> , <b>2012</b> , 53, 1059-67	3	33
93	Therapeutic effects of repetitive transcranial magnetic stimulation in an animal model of Parkinson's disease. <i>Brain Research</i> , <b>2013</b> , 1537, 290-302	3.7	31

92	Neurally induced umbilical cord blood cells modestly repair injured spinal cords. <i>NeuroReport</i> , <b>2008</b> , 19, 1259-63	1.7	31
91	Changes in gait patterns with rhythmic auditory stimulation in adults with cerebral palsy. <i>NeuroRehabilitation</i> , <b>2011</b> , 29, 233-41	2	27
90	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> , <b>2016</b> , 17,	6.3	23
89	Environmental enrichment enhances synaptic plasticity by internalization of striatal dopamine transporters. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2016</b> , 36, 2122-2133	7.3	23
88	Effect of Rhythmic Auditory Stimulation on Hemiplegic Gait Patterns. <i>Yonsei Medical Journal</i> , <b>2015</b> , 56, 1703-13	3	22
87	Two-year outcomes of deep brain stimulation in adults with cerebral palsy. <i>Annals of Rehabilitation Medicine</i> , <b>2014</b> , 38, 209-17	1.7	22
86	Changes in hyolaryngeal movement and swallowing function after neuromuscular electrical stimulation in patients with Dysphagia. <i>Annals of Rehabilitation Medicine</i> , <b>2015</b> , 39, 199-209	1.7	21
85	Analysis of structure-function network decoupling in the brain systems of spastic diplegic cerebral palsy. <i>Human Brain Mapping</i> , <b>2017</b> , 38, 5292-5306	5.9	20
84	Characteristics of psychosexual functioning in adults with cerebral palsy. <i>Clinical Rehabilitation</i> , <b>2004</b> , 18, 423-9	3.3	20
83	Elucidation of Gene Expression Patterns in the Brain after Spinal Cord Injury. <i>Cell Transplantation</i> , <b>2017</b> , 26, 1286-1300	4	19
82	Effect of extracorporeal shock wave therapy on scar pain in burn patients: A prospective, randomized, single-blind, placebo-controlled study. <i>Medicine (United States)</i> , <b>2016</b> , 95, e4575	1.8	19
81	The Differential Effects of Repetitive Magnetic Stimulation in an Neuronal Model of Ischemia/Reperfusion Injury. <i>Frontiers in Neurology</i> , <b>2018</b> , 9, 50	4.1	19
80	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> , <b>2014</b> , 10, 761-71	6.4	19
79	Finger exercise with keyboard playing in adults with cerebral palsy: A preliminary study. <i>Journal of Exercise Rehabilitation</i> , <b>2013</b> , 9, 420-5	1.8	19
78	Effects of constraint-induced movement therapy on neurogenesis and functional recovery after early hypoxic-ischemic injury in mice. <i>Developmental Medicine and Child Neurology</i> , <b>2011</b> , 53, 327-33	3.3	19
77	Differential Expression of Extracellular Matrix and Adhesion Molecules in Fetal-Origin Amniotic Epithelial Cells of Preeclamptic Pregnancy. <i>PLoS ONE</i> , <b>2016</b> , 11, e0156038	3.7	19
76	Adults with spastic cerebral palsy have lower bone mass than those with dyskinetic cerebral palsy. <i>Bone</i> , <b>2015</b> , 71, 89-93	4.7	18
75	Application of prime editing to the correction of mutations and phenotypes in adult mice with liver and eye diseases. <i>Nature Biomedical Engineering</i> , <b>2021</b> ,	19	18

74	Induction of Neurorestoration From Endogenous Stem Cells. <i>Cell Transplantation</i> , <b>2016</b> , 25, 863-82	4	17
73	Relationship Between Swallowing Function and Maximum Phonation Time in Patients With Parkinsonism. <i>Annals of Rehabilitation Medicine</i> , <b>2018</b> , 42, 425-432	1.7	17
72	Outcomes of intrathecal baclofen therapy in patients with cerebral palsy and acquired brain injury. <i>Medicine (United States)</i> , <b>2017</b> , 96, e7472	1.8	16
71	Patients with non-ambulatory cerebral palsy have higher sclerostin levels and lower bone mineral density than patients with ambulatory cerebral palsy. <i>Bone</i> , <b>2017</b> , 103, 302-307	4.7	16
70	Environmental enrichment synergistically improves functional recovery by transplanted adipose stem cells in chronic hypoxic-ischemic brain injury. <i>Cell Transplantation</i> , <b>2013</b> , 22, 1553-68	4	16
69	Exploring Erythropoietin and G-CSF Combination Therapy in Chronic Stroke Patients. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17, 463	6.3	16
68	Early Immunomodulation by Intravenously Transplanted Mesenchymal Stem Cells Promotes Functional Recovery in Spinal Cord Injured Rats. <i>Cell Medicine</i> , <b>2011</b> , 2, 55-67	4.9	15
67	Universal Correction of Blood Coagulation Factor VIII in Patient-Derived Induced Pluripotent Stem Cells Using CRISPR/Cas9. <i>Stem Cell Reports</i> , <b>2019</b> , 12, 1242-1249	8	14
66	Short-term effects of erythropoietin on neurodevelopment in infants with cerebral palsy: a pilot study. <i>Brain and Development</i> , <b>2014</b> , 36, 764-9	2.2	14
65	Elucidation of Relevant Neuroinflammation Mechanisms Using Gene Expression Profiling in Patients with Amyotrophic Lateral Sclerosis. <i>PLoS ONE</i> , <b>2016</b> , 11, e0165290	3.7	14
64	High-Frequency Repetitive Magnetic Stimulation Enhances the Expression of Brain-Derived Neurotrophic Factor Through Activation of Ca-Calmodulin-Dependent Protein Kinase II-cAMP-Response Element-Binding Protein Pathway. <i>Frontiers in Neurology</i> , <b>2018</b> , 9, 285	4.1	13
63	Effect of Polydeoxyribonucleotide on Angiogenesis and Wound Healing in an Model of Osteoarthritis. <i>Cell Transplantation</i> , <b>2018</b> , 27, 1623-1633	4	13
62	Recording of elapsed time and temporal information about biological events using Cas9. <i>Cell</i> , <b>2021</b> , 184, 1047-1063.e23	56.2	12
61	Optogenetic stimulation promotes Schwann cell proliferation, differentiation, and myelination in vitro. <i>Scientific Reports</i> , <b>2019</b> , 9, 3487	4.9	11
60	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> , <b>2016</b> , 40, 559-67	1.7	11
59	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> , <b>2016</b> , 1385, 53-62	6.5	11
58	Effects of low- and high-frequency repetitive magnetic stimulation on neuronal cell proliferation and growth factor expression: A preliminary report. <i>Neuroscience Letters</i> , <b>2015</b> , 604, 167-72	3.3	10
57	An Enriched Environment Ameliorates Oxidative Stress and Olfactory Dysfunction in Parkinson's Disease with $\beta$ -Synucleinopathy. <i>Cell Transplantation</i> , <b>2018</b> , 27, 831-839	4	10

56	Factors affecting bone mineral density in adults with cerebral palsy. <i>Annals of Rehabilitation Medicine</i> , <b>2012</b> , 36, 770-5	1.7	10
55	The effect of treadmill exercise on gait efficiency during overground walking in adults with cerebral palsy. <i>Annals of Rehabilitation Medicine</i> , <b>2015</b> , 39, 25-31	1.7	10
54	Reconstruction of Muscle Fascicle-Like Tissues by Anisotropic 3D Patterning. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2006227	15.6	10
53	Generation of a more efficient prime editor 2 by addition of the Rad51 DNA-binding domain. <i>Nature Communications</i> , <b>2021</b> , 12, 5617	17.4	10
52	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> , <b>2014</b> , 30, 107-17	4.3	9
51	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> , <b>2012</b> , 90, 292-9	1.6	9
50	Expression of Reprogramming Factors Increases Hippocampal Neurogenesis and Synaptic Plasticity in Chronic Hypoxic-Ischemic Brain Injury. <i>Neural Plasticity</i> , <b>2016</b> , 2016, 2580837	3.3	9
49	Anti-inflammatory Effect of DNA Polymeric Molecules in a Cell Model of Osteoarthritis. <i>Inflammation</i> , <b>2018</b> , 41, 677-688	5.1	8
48	Effects of Early Exercise Rehabilitation on Functional Recovery in Patients with Severe Sepsis. <i>Yonsei Medical Journal</i> , <b>2018</b> , 59, 843-851	3	8
47	Gait training for adults with cerebral palsy following harmonic modification in rhythmic auditory stimulation. <i>Annals of the New York Academy of Sciences</i> , <b>2020</b> , 1473, 11-19	6.5	7
46	In Situ Pluripotency Factor Expression Promotes Functional Recovery From Cerebral Ischemia. <i>Molecular Therapy</i> , <b>2016</b> , 24, 1538-49	11.7	7
45	Age-Related Changes in Bimanual Instrument Playing with Rhythmic Cueing. <i>Frontiers in Psychology</i> , <b>2017</b> , 8, 1569	3.4	7
44	The Applicability of Rhythm-Motor Tasks to a New Dual Task Paradigm for Older Adults. <i>Frontiers in Neurology</i> , <b>2017</b> , 8, 671	4.1	7
43	A Validation Study of the Korean Version of the Swallowing-Quality of Life Scale. <i>Communication Sciences and Disorders</i> , <b>2013</b> , 18, 341-347	0.6	7
42	Intrathecal Baclofen Pump Versus Globus Pallidus Interna Deep Brain Stimulation in Adult Patients with Severe Cerebral Palsy. <i>World Neurosurgery</i> , <b>2019</b> , 126, e550-e556	2.1	6
41	Effects of pain Scrambler therapy for management of burn scar pruritus: A pilot study. <i>Burns</i> , <b>2017</b> , 43, 514-519	2.3	6
40	Hand rehabilitation using MIDI keyboard playing in adolescents with brain damage: a preliminary study. <i>NeuroRehabilitation</i> , <b>2014</b> , 34, 147-55	2	6
39	CRISPR-mediated gene correction links the ATP7A M1311V mutations with amyotrophic lateral sclerosis pathogenesis in one individual. <i>Communications Biology</i> , <b>2020</b> , 3, 33	6.7	5

38	Factors affecting cognition and emotion in patients with traumatic brain injury. <i>NeuroRehabilitation</i> , <b>2020</b> , 46, 369-379	2	5
37	The Schwann Cell as an Active Synaptic Partner. <i>ChemPhysChem</i> , <b>2018</b> , 19, 1123-1127	3.2	5
36	GABAergic neuronal differentiation induced by brain-derived neurotrophic factor in human mesenchymal stem cells. <i>Animal Cells and Systems</i> , <b>2014</b> , 18, 17-24	2.3	5
35	Neurobehavioral Assessments in a Mouse Model of Neonatal Hypoxic-ischemic Brain Injury. <i>Journal of Visualized Experiments</i> , <b>2017</b> ,	1.6	5
34	Brain Plasticity and Neurorestoration by Environmental Enrichment. <i>Brain &amp; Neurorehabilitation</i> , <b>2016</b> , 9,	0.8	5
33	Prime editing enables precise genome editing in mouse liver and retina		5
32	Clinical and Pathological Heterogeneity of Korean Patients with CAPN3 Mutations. <i>Yonsei Medical Journal</i> , <b>2016</b> , 57, 173-9	3	4
31	Environmental Enrichment Upregulates Striatal Synaptic Vesicle-Associated Proteins and Improves Motor Function. <i>Frontiers in Neurology</i> , <b>2018</b> , 9, 465	4.1	4
30	The Effect of Environmental Enrichment on Glutathione-Mediated Xenobiotic Metabolism and Antioxidation in Normal Adult Mice. <i>Frontiers in Neurology</i> , <b>2018</b> , 9, 425	4.1	3
29	Word Lexicality- and Regularity-Dependent Alexia in Alzheimer's Disease. <i>Communication Sciences and Disorders</i> , <b>2017</b> , 22, 129-137	0.6	3
28	Combined therapy of orthopedic surgery after deep brain stimulation in cerebral palsy mixed type - a case report -. <i>Annals of Rehabilitation Medicine</i> , <b>2011</b> , 35, 742-6	1.7	3
27	Development of Short-Form of the Speech Handicap Index and Its Application to Tongue Cancer Patients. <i>Communication Sciences and Disorders</i> , <b>2018</b> , 23, 218-227	0.6	2
26	Epigenetic regulation in the brain after spinal cord injury : a comparative study. <i>Journal of Korean Neurosurgical Society</i> , <b>2013</b> , 53, 337-41	2.3	2
25	Cell Surface Antigen Display for Neuronal Differentiation-Specific Tracking. <i>Biomolecules and Therapeutics</i> , <b>2019</b> , 27, 78-84	4.2	2
24	Environmental Enrichment Attenuates Oxidative Stress and Alters Detoxifying Enzymes in an A53T $\alpha$ -Synuclein Transgenic Mouse Model of Parkinson's Disease. <i>Antioxidants</i> , <b>2020</b> , 9,	7.1	2
23	Environmental Enrichment Enhances Ca <sup>2+</sup> Channel-Mediated Presynaptic Plasticity in Hypoxic-Ischemic Encephalopathy. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	2
22	3'-Sialyllactose Protects SW1353 Chondrocytic Cells From Interleukin-1 $\beta$ -Induced Oxidative Stress and Inflammation. <i>Frontiers in Pharmacology</i> , <b>2021</b> , 12, 609817	5.6	2
21	Clinical Outcomes of Correcting Cervical Deformity in Cerebral Palsy Patients. <i>World Neurosurgery</i> , <b>2016</b> , 96, 500-509	2.1	2

20	Parasympathetic Effect Induces Cell Cycle Activation in Upper Limbs of Paraplegic Patients with Spinal Cord Injury. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	2
19	Purification of an Intact Human Protein Overexpressed from Its Endogenous Locus Direct Genome Engineering. <i>ACS Synthetic Biology</i> , <b>2020</b> , 9, 1591-1598	5.7	1
18	Numerical Processing and Calculation Deficits in Alzheimer’s Disease. <i>Communication Sciences and Disorders</i> , <b>2017</b> , 22, 138-145	0.6	1
17	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> , <b>2019</b> , 43, 335-340	1.7	1
16	Application of the Speech Handicap Index on Patients with Parkinson’s Disease. <i>Communication Sciences and Disorders</i> , <b>2018</b> , 23, 160-168	0.6	1
15	Swallowing Outcomes Following Voice Therapy in Multiple System Atrophy with Dysphagia: Comparison of Treatment Efficacy with Parkinson’s Disease. <i>Dysphagia</i> , <b>2021</b> , 1	3.7	1
14	Reduced Interaction of Aggregated $\beta$ Synuclein and VAMP2 by Environmental Enrichment Alleviates Hyperactivity and Anxiety in a Model of Parkinson’s Disease. <i>Genes</i> , <b>2021</b> , 12,	4.2	1
13	Expression of Reprogramming Factor OCT4 Ameliorates Myelination Deficits and Induces Striatal Neuroprotection in Huntington’s Disease. <i>Genes</i> , <b>2021</b> , 12,	4.2	1
12	In vivo gene editing via homology-independent targeted integration for adrenoleukodystrophy treatment. <i>Molecular Therapy</i> , <b>2021</b> ,	11.7	1
11	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> , <b>2021</b> , 11,	3.4	1
10	Therapeutic Singing as a Swallowing Intervention in Head and Neck Cancer Patients With Dysphagia.. <i>Integrative Cancer Therapies</i> , <b>2021</b> , 20, 15347354211065040	3	0
9	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> , <b>2021</b> , 26, 219-230	0.6	0
8	Factors Affecting Postoperative Complications and Outcomes of Cervical Spondylotic Myelopathy with Cerebral Palsy : A Retrospective Analysis. <i>Journal of Korean Neurosurgical Society</i> , <b>2021</b> , 64, 808-817	2.3	0
7	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> , <b>2020</b> , 49, 102026	1.6	
6	Dose-dependent Changes in Gait Pattern after Intrathecal Baclofen Bolus Injection in Adult Ambulatory Cerebral Palsy: A Case Report. <i>Brain &amp; Neurorehabilitation</i> , <b>2015</b> , 8, 104	0.8	
5	Balance and Coordination Training for Brain Disorders. <i>Brain &amp; Neurorehabilitation</i> , <b>2013</b> , 6, 68	0.8	
4	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> , <b>2020</b> , 25, 954-965	0.6	
3	Utterance-Level Word Class Characteristics in Normal Elderly Women. <i>Communication Sciences and Disorders</i> , <b>2014</b> , 19, 265-273	0.6	

- 2 Collagen-binding peptide reverses bone loss in a mouse model of cerebral palsy based on clinical databases. *Annals of Physical and Rehabilitation Medicine*, **2021**, 64, 101445 3.8
- 1 Environmental Enrichment and Estrogen Upregulate Beta-Hydroxybutyrate Underlying Functional Improvement.. *Frontiers in Molecular Neuroscience*, **2022**, 15, 869799 6.1