

# Shih-Chieh Hung

## List of Publications by Citations

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90  
papers

3,796  
citations

33  
h-index

61  
g-index

92  
ext. papers

4,277  
ext. citations

5.3  
avg. IF

5.23  
L-index

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 90 | Angiogenic effects of human multipotent stromal cell conditioned medium activate the PI3K-Akt pathway in hypoxic endothelial cells to inhibit apoptosis, increase survival, and stimulate angiogenesis. <i>Stem Cells</i> , <b>2007</b> , 25, 2363-70 | 5.8  | 330       |
| 89 | Hypoxia inhibits senescence and maintains mesenchymal stem cell properties through down-regulation of E2A-p21 by HIF-TWIST. <i>Blood</i> , <b>2011</b> , 117, 459-69  | 2.2  | 279       |
| 88 | Short-term exposure of multipotent stromal cells to low oxygen increases their expression of CX3CR1 and CXCR4 and their engraftment in vivo. <i>PLoS ONE</i> , <b>2007</b> , 2, e416  | 3.7  | 256       |
| 87 | Mesenchymal stem cell targeting of microscopic tumors and tumor stroma development monitored by noninvasive in vivo positron emission tomography imaging. <i>Clinical Cancer Research</i> , <b>2005</b> , 11, 7749-56                                 | 12.9 | 251       |
| 86 | Isolation and characterization of size-sieved stem cells from human bone marrow. <i>Stem Cells</i> , <b>2002</b> , 20, 249-58   | 5.8  | 240       |
| 85 | In vitro differentiation of size-sieved stem cells into electrically active neural cells. <i>Stem Cells</i> , <b>2002</b> , 20, 522-9   | 5.8  | 131       |
| 84 | Autophagy promotes resistance to photodynamic therapy-induced apoptosis selectively in colorectal cancer stem-like cells. <i>Autophagy</i> , <b>2014</b> , 10, 1179-92  | 10.2 | 129       |
| 83 | Enhancement of wound healing by human multipotent stromal cell conditioned medium: the paracrine factors and p38 MAPK activation. <i>Cell Transplantation</i> , <b>2011</b> , 20, 693-706   | 4    | 104       |
| 82 | Chemoresistance of lung cancer stemlike cells depends on activation of Hsp27. <i>Cancer</i> , <b>2011</b> , 117, 1516-24  | 8.1  | 100       |
| 81 | cAMP/PKA regulates osteogenesis, adipogenesis and ratio of RANKL/OPG mRNA expression in mesenchymal stem cells by suppressing leptin. <i>PLoS ONE</i> , <b>2008</b> , 3, e1540  | 3.7  | 100       |
| 80 | IL-6 enriched lung cancer stem-like cell population by inhibition of cell cycle regulators via DNMT1 upregulation. <i>International Journal of Cancer</i> , <b>2015</b> , 136, 547-59   | 7.5  | 96        |
| 79 | Involvement of ER stress, PI3K/AKT activation, and lung fibroblast proliferation in bleomycin-induced pulmonary fibrosis. <i>Scientific Reports</i> , <b>2017</b> , 7, 14272  | 4.9  | 91        |
| 78 | Benefits of hypoxic culture on bone marrow multipotent stromal cells. <i>American Journal of Blood Research</i> , <b>2012</b> , 2, 148-59   | 1.6  | 87        |
| 77 | Cucurbitacin I inhibits tumorigenic ability and enhances radiochemosensitivity in nonsmall cell lung cancer-derived CD133-positive cells. <i>Cancer</i> , <b>2011</b> , 117, 2970-85  | 6.4  | 82        |
| 76 | Overexpression of hTERT increases stem-like properties and decreases spontaneous differentiation in human mesenchymal stem cell lines. <i>Journal of Biomedical Science</i> , <b>2010</b> , 17, 64  | 13.3 | 74        |
| 75 | Immortalization without neoplastic transformation of human mesenchymal stem cells by transduction with HPV16 E6/E7 genes. <i>International Journal of Cancer</i> , <b>2004</b> , 110, 313-9   | 7.5  | 73        |
| 74 | Allogeneic Mesenchymal Stem Cells in Combination with Hyaluronic Acid for the Treatment of Osteoarthritis in Rabbits. <i>PLoS ONE</i> , <b>2016</b> , 11, e0149835  | 3.7  | 66        |

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| 73 | Methylation and PTEN activation in dental pulp mesenchymal stem cells promotes osteogenesis and reduces oncogenesis. <i>Nature Communications</i> , <b>2019</b> , 10, 2226  | 17.4 | 65 |
| 72 | Gene expression profiles of early adipogenesis in human mesenchymal stem cells. <i>Gene</i> , <b>2004</b> , 340, 141-508  | 5.8  | 63 |
| 71 | c-Jun N-terminal kinase 1 negatively regulates osteoblastic differentiation induced by BMP2 via phosphorylation of Runx2 at Ser104. <i>Journal of Bone and Mineral Research</i> , <b>2012</b> , 27, 1093-105                                  | 6.3  | 57 |
| 70 | Mesenchymal stem cells in regenerative medicine for musculoskeletal diseases: bench, bedside, and industry. <i>Cell Transplantation</i> , <b>2014</b> , 23, 505-12  | 4    | 54 |
| 69 | Allo-transplantation of mesenchymal stem cells attenuates hepatic injury through IL1Ra dependent macrophage switch in a mouse model of liver disease. <i>Journal of Hepatology</i> , <b>2015</b> , 63, 1405-12                                | 13.4 | 50 |
| 68 | The effect of elastic biodegradable polyurethane electrospun nanofibers on the differentiation of mesenchymal stem cells. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2014</b> , 122, 414-422  | 6    | 49 |
| 67 | Evaluation of biodegradable elastic scaffolds made of anionic polyurethane for cartilage tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2015</b> , 125, 34-44   | 6    | 47 |
| 66 | Isolation of mesenchymal stem cells from shoulder rotator cuff: a potential source for muscle and tendon repair. <i>Cell Transplantation</i> , <b>2013</b> , 22, 413-22   | 4    | 46 |
| 65 | Mesenchymal Stem Cell-Conditioned Medium Induces Neutrophil Apoptosis Associated with Inhibition of the NF- $\kappa$ B Pathway in Endotoxin-Induced Acute Lung Injury. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20, | 6.3  | 40 |
| 64 | Use of gum arabic to improve the fabrication of chitosan-gelatin-based nanofibers for tissue engineering. <i>Carbohydrate Polymers</i> , <b>2015</b> , 115, 525-32  | 10.3 | 39 |
| 63 | Hypoxia-preconditioned mesenchymal stem cells ameliorate ischemia/reperfusion-induced lung injury. <i>PLoS ONE</i> , <b>2017</b> , 12, e0187637   | 3.7  | 38 |
| 62 | Isolation of mesenchymal stem cells from human ligamentum flavum: implicating etiology of ligamentum flavum hypertrophy. <i>Spine</i> , <b>2011</b> , 36, E1193-200   | 3.3  | 38 |
| 61 | Hypoxic mesenchymal stem cells engraft and ameliorate limb ischaemia in allogeneic recipients. <i>Cardiovascular Research</i> , <b>2014</b> , 101, 266-76   | 9.9  | 35 |
| 60 | RB maintains quiescence and prevents premature senescence through upregulation of DNMT1 in mesenchymal stromal cells. <i>Stem Cell Reports</i> , <b>2014</b> , 3, 975-86  | 8    | 35 |
| 59 | Lineage differentiation-associated loss of adenoviral susceptibility and Coxsackie-adenovirus receptor expression in human mesenchymal stem cells. <i>Stem Cells</i> , <b>2004</b> , 22, 1321-9   | 5.8  | 34 |
| 58 | Neocartilage from human mesenchymal stem cells in alginate: implied timing of transplantation. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2005</b> , 74, 439-46  | 5.4  | 33 |
| 57 | In situ Raman spectroscopic monitoring of hydroxyapatite as human mesenchymal stem cells differentiate into osteoblasts. <i>Journal of Raman Spectroscopy</i> , <b>2009</b> , 40, 546-549   | 2.3  | 32 |
| 56 | Suspension survival mediated by PP2A-STAT3-Col XVII determines tumour initiation and metastasis in cancer stem cells. <i>Nature Communications</i> , <b>2016</b> , 7, 11798   | 17.4 | 30 |

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|----|---|------|----|
| 55 | Screening the attachment and spreading of bone marrow-derived and adipose-derived mesenchymal stem cells on porous silicon gradients. <i>RSC Advances</i> , <b>2012</b> , 2, 12857  | 3.7  | 29 |
| 54 | Reverse thermo-responsive hydrogels prepared from Pluronic F127 and gelatin composite materials. <i>RSC Advances</i> , <b>2017</b> , 7, 21252-21257   | 3.7  | 25 |
| 53 | High metabolic rate and stem cell characteristics of esophageal cancer stem-like cells depend on the Hsp27-AKT-HK2 pathway. <i>International Journal of Cancer</i> , <b>2019</b> , 145, 2144-2156                                     | 7.5  | 24 |
| 52 | HLA-B27-mediated activation of TNAP phosphatase promotes pathogenic syndesmophyte formation in ankylosing spondylitis. <i>Journal of Clinical Investigation</i> , <b>2019</b> , 129, 5357-5373  | 15.9 | 24 |
| 51 | c-Maf regulates pluripotency genes, proliferation/self-renewal, and lineage commitment in ROS-mediated senescence of human mesenchymal stem cells. <i>Oncotarget</i> , <b>2015</b> , 6, 35404-18                                      | 3.3  | 23 |
| 50 | Collagen XVII/laminin-5 activates epithelial-to-mesenchymal transition and is associated with poor prognosis in lung cancer. <i>Oncotarget</i> , <b>2018</b> , 9, 1656-1672   | 3.3  | 23 |
| 49 | Early Passage Mesenchymal Stem Cells Display Decreased Radiosensitivity and Increased DNA Repair Activity. <i>Stem Cells Translational Medicine</i> , <b>2017</b> , 6, 1504-1514  | 6.9  | 22 |
| 48 | Mesenchymal Stem Cells Ameliorate Atherosclerotic Lesions via Restoring Endothelial Function. <i>Stem Cells Translational Medicine</i> , <b>2015</b> , 4, 44-55   | 6.9  | 22 |
| 47 | Du-Huo-Ji-Sheng-Tang and its active component Ligusticum chuanxiong promote osteogenic differentiation and decrease the aging process of human mesenchymal stem cells. <i>Journal of Ethnopharmacology</i> , <b>2017</b> , 198, 64-72 | 5    | 21 |
| 46 | Self-Assembled Peptide-Based Hydrogels as Scaffolds for Proliferation and Multi-Differentiation of Mesenchymal Stem Cells. <i>Macromolecular Bioscience</i> , <b>2017</b> , 17, 1600192   | 5.5  | 21 |
| 45 | Generation of Osteosarcomas from a Combination of Rb Silencing and c-Myc Overexpression in Human Mesenchymal Stem Cells. <i>Stem Cells Translational Medicine</i> , <b>2017</b> , 6, 512-526  | 6.9  | 21 |
| 44 | Repair of naphthalene-induced acute tracheal injury by basal cells depends on E-cadherin. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2014</b> , 148, 322-32   | 1.5  | 21 |
| 43 | Effects of continuous distraction on cartilage in a moving joint: an investigation on adult rabbits. <i>Journal of Orthopaedic Research</i> , <b>1997</b> , 15, 381-90  | 3.8  | 20 |
| 42 | Efficient expansion of mesenchymal stem cells from mouse bone marrow under hypoxic conditions. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2013</b> , 7, 984-93   | 4.4  | 17 |
| 41 | Alpha-smooth muscle actin expression and structure integrity in chondrogenesis of human mesenchymal stem cells. <i>Cell and Tissue Research</i> , <b>2006</b> , 324, 457-66   | 4.2  | 17 |
| 40 | Mesenchymal stem cells and their conditioned medium can enhance the repair of uterine defects in a rat model. <i>Journal of the Chinese Medical Association</i> , <b>2018</b> , 81, 268-276   | 2.8  | 15 |
| 39 | Monteggia type I equivalent lesion: diaphyseal ulna and radius fractures with a posterior elbow dislocation in an adult. <i>Archives of Orthopaedic and Trauma Surgery</i> , <b>2003</b> , 123, 311-3                                 | 3.6  | 15 |
| 38 | Upregulation of ACE2 and TMPRSS2 by particulate matter and idiopathic pulmonary fibrosis: a potential role in severe COVID-19. <i>Particle and Fibre Toxicology</i> , <b>2021</b> , 18, 11  | 8.4  | 14 |

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| 37 | Use of Allogeneic Hypoxic Mesenchymal Stem Cells For Treating Disc Degeneration in Rabbits. <i>Journal of Orthopaedic Research</i> , <b>2019</b> , 37, 1440-1450   | 3.8  | 13 |
| 36 | Manipulation therapy prior to diagnosis induced primary osteosarcoma metastasis--from clinical to basic research. <i>PLoS ONE</i> , <b>2014</b> , 9, e96571  | 3.7  | 13 |
| 35 | Tumorigenic and Metastatic Role of CD44/CD24 Cells in Luminal Breast Cancer. <i>Cancers</i> , <b>2020</b> , 12,  | 6.6  | 12 |
| 34 | Callus formation in femur and tibia during leg lengthening: 7 patients examined with DXA. <i>Acta Orthopaedica</i> , <b>1996</b> , 67, 158-60  |      | 10 |
| 33 | Concomitant beige adipocyte differentiation upon induction of mesenchymal stem cells into brown adipocytes. <i>Biochemical and Biophysical Research Communications</i> , <b>2016</b> , 478, 689-95                                 | 3.4  | 10 |
| 32 | Bioactive surface modification of polycaprolactone using MG63-conditioned medium can induce osteogenic differentiation of mesenchymal stem cells. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 3967-3978                | 4.3  | 9  |
| 31 | Particulate Matter Increases the Severity of Bleomycin-Induced Pulmonary Fibrosis through KC-Mediated Neutrophil Chemotaxis. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 21,                                | 6.3  | 9  |
| 30 | Dexamethasone-induced cellular tension requires a SGK1-stimulated Sec5-GEF-H1 interaction. <i>Journal of Cell Science</i> , <b>2015</b> , 128, 3757-68   | 5.3  | 8  |
| 29 | Conditioned medium derived from mesenchymal stem cells overexpressing HPV16 E6E7 dramatically improves ischemic limb. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2014</b> , 72, 339-49                               | 5.8  | 8  |
| 28 | Involvement of mTOR-autophagy in the selection of primitive mesenchymal stem cells in chitosan film 3-dimensional culture. <i>Scientific Reports</i> , <b>2017</b> , 7, 10113  | 4.9  | 7  |
| 27 | Involvement of collagen XVII in pluripotency gene expression and metabolic reprogramming of lung cancer stem cells. <i>Journal of Biomedical Science</i> , <b>2020</b> , 27, 5   | 13.3 | 6  |
| 26 | Hypoxic mesenchymal stem cells ameliorate acute kidney ischemia-reperfusion injury via enhancing renal tubular autophagy. <i>Stem Cell Research and Therapy</i> , <b>2021</b> , 12, 367  | 8.3  | 6  |
| 25 | Combination of Mesenchymal Stem Cell-Delivered Oncolytic Virus with Prodrug Activation Increases Efficacy and Safety of Colorectal Cancer Therapy. <i>Biomedicines</i> , <b>2021</b> , 9,  | 4.8  | 5  |
| 24 | Efficient programming of human mesenchymal stem cell-derived hepatocytes by epigenetic regulations. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , <b>2017</b> , 32, 261-269                                      | 4    | 4  |
| 23 | Fibromatosis stem cells rather than bone-marrow mesenchymal stem cells recapitulate a murine model of fibromatosis. <i>Biochemical and Biophysical Research Communications</i> , <b>2011</b> , 408, 269-75                         | 3.4  | 4  |
| 22 | Corticosteroid inhibits differentiation of palmar fibromatosis-derived stem cells (FSCs) through downregulation of transforming growth factor- $\beta$ (TGF- $\beta$ ). <i>PLoS ONE</i> , <b>2018</b> , 13, e0198326               | 3.7  | 4  |
| 21 | Aberrant distribution and function of plasmacytoid dendritic cells in patients with ankylosing spondylitis are associated with unfolded protein response. <i>Kaohsiung Journal of Medical Sciences</i> , <b>2020</b> , 36, 441-449 | 2.4  | 4  |
| 20 | PP2A in LepR+ mesenchymal stem cells contributes to embryonic and postnatal endochondral ossification through Runx2 dephosphorylation. <i>Communications Biology</i> , <b>2021</b> , 4, 658  | 6.7  | 3  |

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| 19 | PP2A Deficiency Enhances Carcinogenesis of Lgr5 Intestinal Stem Cells Both in Organoids and In Vivo. <i>Cells</i> , <b>2019</b> , 9,   | 7.9  | 2 |
| 18 | Hypoxia-preconditioned allogeneic mesenchymal stem cells can be used for myocardial repair in non-human primates. <i>Journal of Thoracic Disease</i> , <b>2016</b> , 8, E593-5   | 2.6  | 2 |
| 17 | Multi-lineage differentiation and angiogenesis potentials of pigmented villonodular synovitis derived mesenchymal stem cells--pathological implication. <i>Journal of Orthopaedic Research</i> , <b>2016</b> , 34, 395-403                             | 3.8  | 2 |
| 16 | Impact of Intermittent Hypoxia on Sepsis Outcomes in a Murine Model. <i>Scientific Reports</i> , <b>2019</b> , 9, 12900  | 4.9  | 1 |
| 15 | Curing a Patient of Recurrent Tracheal Papillomatosis Using Laser Ablation and Adjuvant Radiotherapy. <i>Annals of Thoracic Surgery</i> , <b>2020</b> , 110, e91-e93   | 2.7  | 1 |
| 14 | Clinical presentation and pathological features of atypical subtrochanteric fracture after bisphosphonate treatment. <i>European Journal of Orthopaedic Surgery and Traumatology</i> , <b>2012</b> , 22, 417-421                                       | 2.2  | 1 |
| 13 | Influence of femoral lengthening on hip joint space in posttraumatic femoral shortening. <i>Acta Orthopaedica</i> , <b>1997</b> , 68, 541-4  |      | 1 |
| 12 | Stem cell transplantation and/or adenoviral glial cell line-derived neurotrophic factor promote functional recovery in hemiparkinsonian rats. <i>World Journal of Stem Cells</i> , <b>2021</b> , 13, 78-90   | 5.6  | 1 |
| 11 | Protein phosphatase 2A inactivation induces microsatellite instability, neoantigen production and immune response.. <i>Nature Communications</i> , <b>2021</b> , 12, 7297  | 17.4 | 1 |
| 10 | Phantom simulation of liver metastasis on a positron emission tomography with computed tomography scan after neoadjuvant chemoradiotherapy for distal esophageal cancer: a case report. <i>Journal of Medical Case Reports</i> , <b>2020</b> , 14, 106 | 1.2  | 0 |
| 9  | Insertion of a novel T-tube into an intricate subglottic stenosis. <i>Asian Journal of Surgery</i> , <b>2021</b> , 44, 877-880   | 6    | 0 |
| 8  | Retrieval of an incarcerated denture through a cervical esophagotomy adjuvant with Montgomery T-tube drainage. <i>Asian Journal of Surgery</i> , <b>2020</b> , 43, 1044-1046   | 1.6  |   |
| 7  | New perspectives for a huge traumatic pneumatocele treatment in a young adult. <i>Respirology Case Reports</i> , <b>2020</b> , 8, e00537   | 0.9  |   |
| 6  | 3-D printing model used to streamline surgical procedures for an intricate condition of airway compression caused by devastating mediastinal chondrosarcoma: a case report. <i>Journal of Medical Case Reports</i> , <b>2020</b> , 14, 14              | 1.2  |   |
| 5  | Treatment of stent-related fulminating granulation tissue via emergency tracheostomy under topical anesthesia. <i>Asian Journal of Surgery</i> , <b>2020</b> , 43, 1172-1174   | 1.6  |   |
| 4  | Treatment of trivial esophageal cancer with huge devastating airway obstruction via the use of a modified emergency tracheostomy under local anesthesia. <i>Asian Journal of Surgery</i> , <b>2020</b> , 43, 1182-1185                                 | 1.6  |   |
| 3  | Empyema thoracis complicated by anaemia as caused by occult bonelet aspiration. <i>Respirology Case Reports</i> , <b>2020</b> , 8, e00661  | 0.9  |   |
| 2  | Incomplete metalloptysis linger pneumonia after a wedge resection of the lung for organizing pneumonia. <i>Respirology Case Reports</i> , <b>2020</b> , 8, e00627  | 0.9  |   |

- 1 Effects of hypoxic culture on bone marrow multipotent mesenchymal stromal cells **2016**, 196-207