

Alexandra Stolzing

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70
papers

4,422
citations

32
h-index

66
g-index

81
ext. papers

5,080
ext. citations

5.1
avg, IF

5.86
L-index

| # | Paper | IF | Citations |
|----|--|-----|-----------|
| 70 | Age-related changes in human bone marrow-derived mesenchymal stem cells: consequences for cell therapies. <i>Mechanisms of Ageing and Development</i> , 2008 , 129, 163-73 | 5.6 | 882 |
| 69 | Aging of mesenchymal stem cells. <i>Ageing Research Reviews</i> , 2006 , 5, 91-116 | 12 | 485 |
| 68 | The role of DNA methylation in aging, rejuvenation, and age-related disease. <i>Rejuvenation Research</i> , 2012 , 15, 483-94 | 2.6 | 214 |
| 67 | Age-related impairment of mesenchymal progenitor cell function. <i>Aging Cell</i> , 2006 , 5, 213-24 | 9.9 | 171 |
| 66 | Immunoproteasome and LMP2 polymorphism in aged and Alzheimer's disease brains. <i>Neurobiology of Aging</i> , 2006 , 27, 54-66 | 5.6 | 162 |
| 65 | Angiogenic properties of aged adipose derived mesenchymal stem cells after hypoxic conditioning. <i>Journal of Translational Medicine</i> , 2011 , 9, 10 | 8.5 | 149 |
| 64 | Phosphorylation inhibits turnover of the tau protein by the proteasome: influence of RCAN1 and oxidative stress. <i>Biochemical Journal</i> , 2006 , 400, 511-20 | 3.8 | 137 |
| 63 | Systematic Review of miRNA as Biomarkers in Alzheimer's Disease. <i>Molecular Neurobiology</i> , 2019 , 56, 6156-6167 | 6.2 | 123 |
| 62 | The role of lipid metabolism in aging, lifespan regulation, and age-related disease. <i>Aging Cell</i> , 2019 , 18, e13048 | 9.9 | 114 |
| 61 | Glucose-induced replicative senescence in mesenchymal stem cells. <i>Rejuvenation Research</i> , 2006 , 9, 31-52.6 | 110 | |
| 60 | Cellular senescence: Immunosurveillance and future immunotherapy. <i>Ageing Research Reviews</i> , 2018 , 43, 17-25 | 12 | 101 |
| 59 | Diabetes induced changes in rat mesenchymal stem cells. <i>Cells Tissues Organs</i> , 2010 , 191, 453-65 | 2.1 | 101 |
| 58 | Intranasal delivery of bone marrow-derived mesenchymal stem cells, macrophages, and microglia to the brain in mouse models of Alzheimer's and Parkinson's disease. <i>Cell Transplantation</i> , 2014 , 23 Suppl 1, S123-39 | 4 | 91 |
| 57 | H3K4me1 marks DNA regions hypomethylated during aging in human stem and differentiated cells. <i>Genome Research</i> , 2015 , 25, 27-40 | 9.7 | 89 |
| 56 | Neuronal apoptotic bodies: phagocytosis and degradation by primary microglial cells. <i>FASEB Journal</i> , 2004 , 18, 743-5 | 0.9 | 85 |
| 55 | Biomarkers to identify and isolate senescent cells. <i>Ageing Research Reviews</i> , 2016 , 29, 1-12 | 12 | 85 |
| 54 | Role of immune cells in the removal of deleterious senescent cells. <i>Immunity and Ageing</i> , 2020 , 17, 16 | 9.7 | 71 |

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|----|--|-----|----|
| 53 | Proteolysis, caloric restriction and aging. <i>Mechanisms of Ageing and Development</i> , 2001 , 122, 595-615 | 5.6 | 66 |
| 52 | Hydroxyethylstarch in cryopreservation - mechanisms, benefits and problems. <i>Transfusion and Apheresis Science</i> , 2012 , 46, 137-47 | 2.4 | 64 |
| 51 | The consequences of acute cold exposure on protein oxidation and proteasome activity in short-tailed field voles, <i>Microtus agrestis</i> . <i>Free Radical Biology and Medicine</i> , 2002 , 33, 259-65 | 7.8 | 63 |
| 50 | Effect of systemic transplantation of bone marrow-derived mesenchymal stem cells on neuropathology markers in APP/PS1 Alzheimer mice. <i>Neuropathology and Applied Neurobiology</i> , 2017 , 43, 299-314 | 5.2 | 62 |
| 49 | The aging signature: a hallmark of induced pluripotent stem cells?. <i>Aging Cell</i> , 2014 , 13, 2-7 | 9.9 | 62 |
| 48 | Effect of different freezing rates during cryopreservation of rat mesenchymal stem cells using combinations of hydroxyethyl starch and dimethylsulfoxide. <i>BMC Biotechnology</i> , 2012 , 12, 49 | 3.5 | 58 |
| 47 | Effect of reduced culture temperature on antioxidant defences of mesenchymal stem cells. <i>Free Radical Biology and Medicine</i> , 2006 , 41, 326-38 | 7.8 | 53 |
| 46 | Migrational changes of mesenchymal stem cells in response to cytokines, growth factors, hypoxia, and aging. <i>Experimental Cell Research</i> , 2015 , 338, 97-104 | 4.2 | 48 |
| 45 | Dimethyl sulfoxide: a central player since the dawn of cryobiology, is efficacy balanced by toxicity?. <i>Regenerative Medicine</i> , 2020 , 15, 1463-1491 | 2.5 | 45 |
| 44 | Degradation of glycated bovine serum albumin in microglial cells. <i>Free Radical Biology and Medicine</i> , 2006 , 40, 1017-27 | 7.8 | 45 |
| 43 | The proteasome and its function in the ageing process. <i>Clinical and Experimental Dermatology</i> , 2001 , 26, 566-72 | 1.8 | 44 |
| 42 | Stressed stem cells: Temperature response in aged mesenchymal stem cells. <i>Stem Cells and Development</i> , 2006 , 15, 478-87 | 4.4 | 43 |
| 41 | Detection and Quantification of β Amyloid, Pyroglutamyl A β and Tau in Aged Canines. <i>Journal of Neuropathology and Experimental Neurology</i> , 2015 , 74, 912-23 | 3.1 | 41 |
| 40 | Suspension cultures of bone-marrow-derived mesenchymal stem cells: effects of donor age and glucose level. <i>Stem Cells and Development</i> , 2012 , 21, 2718-23 | 4.4 | 35 |
| 39 | Differentiation of mouse bone marrow derived stem cells toward microglia-like cells. <i>BMC Cell Biology</i> , 2011 , 12, 35 | | 32 |
| 38 | Intranasal Administration of Mesenchymal Stem Cells Ameliorates the Abnormal Dopamine Transmission System and Inflammatory Reaction in the R6/2 Mouse Model of Huntington Disease. <i>Cells</i> , 2019 , 8, | 7.9 | 30 |
| 37 | Serum-free process development: improving the yield and consistency of human mesenchymal stromal cell production. <i>Cytotherapy</i> , 2015 , 17, 1524-35 | 4.8 | 28 |
| 36 | Tocopherol-mediated modulation of age-related changes in microglial cells: turnover of extracellular oxidized protein material. <i>Free Radical Biology and Medicine</i> , 2006 , 40, 2126-35 | 7.8 | 28 |

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| 35 | Scalability and process transfer of mesenchymal stromal cell production from monolayer to microcarrier culture using human platelet lysate. <i>Cytotherapy</i> , 2016 , 18, 523-35 | 4.8 | 27 |
| 34 | Generation of human induced pluripotent stem cells using non-synthetic mRNA. <i>Stem Cell Research</i> , 2016 , 16, 662-72 | 1.6 | 27 |
| 33 | Degradation of oxidized extracellular proteins by microglia. <i>Archives of Biochemistry and Biophysics</i> , 2002 , 400, 171-9 | 4.1 | 26 |
| 32 | Distribution pattern following systemic mesenchymal stem cell injection depends on the age of the recipient and neuronal health. <i>Stem Cell Research and Therapy</i> , 2017 , 8, 85 | 8.3 | 22 |
| 31 | Antioxidants effectively prevent oxidation-induced protein damage in OLN 93 cells. <i>Archives of Biochemistry and Biophysics</i> , 2004 , 421, 54-60 | 4.1 | 21 |
| 30 | Stem cells in degenerative orthopaedic pathologies: effects of aging on therapeutic potential. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2017 , 25, 626-636 | 5.5 | 20 |
| 29 | Impairment of protein homeostasis and decline of proteasome activity in microglial cells from adult Wistar rats. <i>Journal of Neuroscience Research</i> , 2003 , 71, 264-71 | 4.4 | 19 |
| 28 | Methods of Mesenchymal Stem Cell Homing to the Blood-Brain Barrier. <i>Methods in Molecular Biology</i> , 2018 , 1842, 81-91 | 1.4 | 19 |
| 27 | Regulating aging in adult stem cells with microRNA. <i>Zeitschrift Fur Gerontologie Und Geriatrie</i> , 2013 , 46, 629-34 | 2.7 | 16 |
| 26 | Effect of age and diabetes on the response of mesenchymal progenitor cells to fibrin matrices. <i>International Journal of Biomaterials</i> , 2011 , 2011, 378034 | 3.2 | 16 |
| 25 | Protein oxidation and the degradation of oxidized proteins in the rat oligodendrocyte cell line OLN 93-antioxidative effect of the intracellular spin trapping agent PBN. <i>Molecular Brain Research</i> , 2004 , 122, 126-32 | | 16 |
| 24 | Culture on fibrin matrices maintains the colony-forming capacity and osteoblastic differentiation of mesenchymal stem cells. <i>Biomedical Materials (Bristol)</i> , 2012 , 7, 045015 | 3.5 | 14 |
| 23 | Cellular therapy using microglial cells. <i>Rejuvenation Research</i> , 2007 , 10, 87-99 | 2.6 | 12 |
| 22 | Cryopreservation of dermal fibroblasts and keratinocytes in hydroxyethyl starch-based cryoprotectants. <i>BMC Biotechnology</i> , 2016 , 16, 85 | 3.5 | 11 |
| 21 | Therapeutic potential of mesenchymal stem cells for pulmonary complications associated with preterm birth. <i>International Journal of Biochemistry and Cell Biology</i> , 2016 , 74, 18-32 | 5.6 | 11 |
| 20 | Allogeneic non-adherent bone marrow cells facilitate hematopoietic recovery but do not lead to allogeneic engraftment. <i>PLoS ONE</i> , 2009 , 4, e6157 | 3.7 | 11 |
| 19 | Fusion and regenerative therapies: is immortality really recessive?. <i>Rejuvenation Research</i> , 2007 , 10, 571-86 | | 11 |
| 18 | Bistable Epigenetic States Explain Age-Dependent Decline in Mesenchymal Stem Cell Heterogeneity. <i>Stem Cells</i> , 2017 , 35, 694-704 | 5.8 | 10 |

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| 17 | Biodistribution of in vitro-derived microglia applied intranasally and intravenously to mice: effects of aging. <i>Cytotherapy</i> , 2015 , 17, 1617-26 | 4.8 | 9 |
| 16 | Comparison of different cooling rates for fibroblast and keratinocyte cryopreservation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, E354-E364 | 4.4 | 9 |
| 15 | Protective effects of alpha phenyl-tert-butyl nitron and ascorbic acid in human adipose derived mesenchymal stem cells from differently aged donors. <i>Aging</i> , 2016 , 9, 340-352 | 5.6 | 9 |
| 14 | Microglia differentiation using a culture system for the expansion of mice non-adherent bone marrow stem cells. <i>Journal of Inflammation</i> , 2012 , 9, 12 | 6.7 | 8 |
| 13 | Chronically active: activation of microglial proteolysis in ageing and neurodegeneration. <i>Redox Report</i> , 2005 , 10, 207-13 | 5.9 | 8 |
| 12 | Doxorubicin generates senescent microglia that exhibit altered proteomes, higher levels of cytokine secretion, and a decreased ability to internalize amyloid β . <i>Experimental Cell Research</i> , 2020 , 395, 112203 | 4.2 | 8 |
| 11 | The cannabinoid receptors agonist WIN55212-2 inhibits macrophageal differentiation and alters expression and phosphorylation of cell cycle control proteins. <i>Cell Communication and Signaling</i> , 2011 , 9, 33 | 7.5 | 7 |
| 10 | Influence of murine mesenchymal stem cells on proliferation, phenotype, vitality, and cytotoxicity of murine cytokine-induced killer cells in coculture. <i>PLoS ONE</i> , 2014 , 9, e88115 | 3.7 | 6 |
| 9 | Functional regeneration of tissue engineered skeletal muscle in vitro is dependent on the inclusion of basement membrane proteins. <i>Cytoskeleton</i> , 2019 , 76, 371-382 | 2.4 | 5 |
| 8 | Multiparameter flow cytometric detection and quantification of senescent cells in vitro. <i>Biogerontology</i> , 2020 , 21, 773-786 | 4.5 | 5 |
| 7 | Personal profile: interview with Alexandra Stolzing, Ph.D. Interview by Vicki Glaser. <i>Rejuvenation Research</i> , 2011 , 14, 347-8 | 2.6 | 4 |
| 6 | Watch your notch: a link between aging and stem cell fate?. <i>Rejuvenation Research</i> , 2004 , 7, 9-11 | 2.6 | 4 |
| 5 | Cryopreservation of Mesenchymal Stem Cells Using Medical Grade Ice Nucleation Inducer. <i>International Journal of Molecular Sciences</i> , 2020 , 21, | 6.3 | 4 |
| 4 | Transplantation of bone marrow derived macrophages reduces markers of neuropathology in an APP/PS1 mouse model. <i>Translational Neurodegeneration</i> , 2019 , 8, 33 | 10.3 | 3 |
| 3 | Dissecting primary and secondary senescence to enable new senotherapeutic strategies. <i>Ageing Research Reviews</i> , 2021 , 70, 101412 | 12 | 2 |
| 2 | Efficient and safe correction of hemophilia A by lentiviral vector-transduced BOECs in an implantable device. <i>Molecular Therapy - Methods and Clinical Development</i> , 2021 , 23, 551-566 | 6.4 | 1 |
| 1 | Anharmonic acoustic effects during DNA hybridization on an electrochemical quartz crystal resonator. <i>Electrochimica Acta</i> , 2018 , 269, 526-533 | 6.7 | |