

Susan J Kimber

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

3,504
citations

159585

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h-index

149698

56
g-index

87
all docs

87
docs citations

87
times ranked

5258
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Screening ethnically diverse human embryonic stem cells identifies a chromosome 20 minimal amplicon conferring growth advantage. <i>Nature Biotechnology</i> , 2011, 29, 1132-1144. | 17.5 | 509 |
| 2 | Directed differentiation of human embryonic stem cells toward chondrocytes. <i>Nature Biotechnology</i> , 2010, 28, 1187-1194. | 17.5 | 271 |
| 3 | Establishment of porcine and human expanded potential stem cells. <i>Nature Cell Biology</i> , 2019, 21, 687-699. | 10.3 | 261 |
| 4 | Sox2 Is Essential for Formation of Trophectoderm in the Preimplantation Embryo. <i>PLoS ONE</i> , 2010, 5, e13952. | 2.5 | 173 |
| 5 | Leukaemia inhibitory factor in implantation and uterine biology. <i>Reproduction</i> , 2005, 130, 131-145. | 2.6 | 145 |
| 6 | Generation of Functioning Nephrons by Implanting Human Pluripotent Stem Cell-Derived Kidney Progenitors. <i>Stem Cell Reports</i> , 2018, 10, 766-779. | 4.8 | 134 |
| 7 | Recombinant Laminins Drive the Differentiation and Self-Organization of hESC-Derived Hepatocytes. <i>Stem Cell Reports</i> , 2015, 5, 1250-1262. | 4.8 | 123 |
| 8 | Blastocyst implantation: the adhesion cascade. <i>Seminars in Cell and Developmental Biology</i> , 2000, 11, 77-92. | 5.0 | 108 |
| 9 | Cartilage Repair Using Human Embryonic Stem Cell-Derived Chondroprogenitors. <i>Stem Cells Translational Medicine</i> , 2014, 3, 1287-1294. | 3.3 | 101 |
| 10 | Apoptosis in the preimplantation mouse embryo: Effect of strain difference and in vitro culture. <i>Molecular Reproduction and Development</i> , 2002, 61, 67-77. | 2.0 | 87 |
| 11 | miR-145 suppresses embryo-epithelial juxtacrine communication at implantation by modulating maternal IGF1R. <i>Journal of Cell Science</i> , 2015, 128, 804-14. | 2.0 | 69 |
| 12 | Molecular Interactions at the Maternal-Embryonic Interface During the Early Phase of Implantation. <i>Seminars in Reproductive Medicine</i> , 2000, 18, 237-254. | 1.1 | 61 |
| 13 | Emulating Human Tissues and Organs: A Bioprinting Perspective Toward Personalized Medicine. <i>Chemical Reviews</i> , 2020, 120, 11093-11139. | 47.7 | 61 |
| 14 | Analysis of the distinct functions of growth factors and tissue culture substrates necessary for the long-term self-renewal of human embryonic stem cell lines. <i>Stem Cell Research</i> , 2009, 3, 28-38. | 0.7 | 60 |
| 15 | Graphene Oxide promotes embryonic stem cell differentiation to haematopoietic lineage. <i>Scientific Reports</i> , 2016, 6, 25917. | 3.3 | 59 |
| 16 | Apposition to endometrial epithelial cells activates mouse blastocysts for implantation. <i>Molecular Human Reproduction</i> , 2017, 23, 617-627. | 2.8 | 55 |
| 17 | The Molecular Karyotype of 25 Clinical-Grade Human Embryonic Stem Cell Lines. <i>Scientific Reports</i> , 2015, 5, 17258. | 3.3 | 54 |
| 18 | Desmosomes Are Reduced in the Mouse Uterine Luminal Epithelium During the Preimplantation Period of Pregnancy: A Mechanism for Facilitation of Implantation ¹ . <i>Biology of Reproduction</i> , 2000, 63, 1764-1773. | 2.7 | 53 |

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|----|--|-----|-----------|
| 19 | Leukocyte Subpopulations in the Uteri of Leukemia Inhibitory Factor Knockout Mice During Early Pregnancy. <i>Biology of Reproduction</i> , 2005, 72, 872-878. | 2.7 | 52 |
| 20 | Genes and signals regulating murine trophoblast cell development. <i>Mechanisms of Development</i> , 2010, 127, 1-20. | 1.7 | 52 |
| 21 | Integrin-Associated Focal Adhesion Kinase Protects Human Embryonic Stem Cells from Apoptosis, Detachment, and Differentiation. <i>Stem Cell Reports</i> , 2016, 7, 167-176. | 4.8 | 52 |
| 22 | Comparative Proteomic Analysis of Supportive and Unsupportive Extracellular Matrix Substrates for Human Embryonic Stem Cell Maintenance. <i>Journal of Biological Chemistry</i> , 2013, 288, 18716-18731. | 3.4 | 50 |
| 23 | Integrin and FAK Regulation of Human Pluripotent Stem Cells. <i>Current Stem Cell Reports</i> , 2017, 3, 358-365. | 1.6 | 50 |
| 24 | How should we assess the safety of IVF technologies?. <i>Reproductive BioMedicine Online</i> , 2013, 27, 710-721. | 2.4 | 49 |
| 25 | Enhanced chondrogenesis from human embryonic stem cells. <i>Stem Cell Research</i> , 2019, 39, 101497. | 0.7 | 47 |
| 26 | Generating Cartilage Repair from Pluripotent Stem Cells. <i>Tissue Engineering - Part B: Reviews</i> , 2014, 20, 257-266. | 4.8 | 43 |
| 27 | LEF1-mediated MMP13 gene expression is repressed by SIRT1 in human chondrocytes. <i>FASEB Journal</i> , 2017, 31, 3116-3125. | 0.5 | 43 |
| 28 | A restricted spectrum of missense KMT2D variants cause a multiple malformations disorder distinct from Kabuki syndrome. <i>Genetics in Medicine</i> , 2020, 22, 867-877. | 2.4 | 41 |
| 29 | Patient-Specific iPSC Model of a Genetic Vascular Dementia Syndrome Reveals Failure of Mural Cells to Stabilize Capillary Structures. <i>Stem Cell Reports</i> , 2019, 13, 817-831. | 4.8 | 38 |
| 30 | High-quality clinical-grade human embryonic stem cell lines derived from fresh discarded embryos. <i>Stem Cell Research and Therapy</i> , 2017, 8, 128. | 5.5 | 37 |
| 31 | Global Gene Expression Profiling of Individual Human Oocytes and Embryos Demonstrates Heterogeneity in Early Development. <i>PLoS ONE</i> , 2013, 8, e64192. | 2.5 | 33 |
| 32 | Maternal nutrition modifies trophoblast giant cell phenotype and fetal growth in mice. <i>Reproduction</i> , 2015, 149, 563-575. | 2.6 | 32 |
| 33 | Proteomic analysis of integrin-associated complexes from mesenchymal stem cells. <i>Proteomics - Clinical Applications</i> , 2016, 10, 51-57. | 1.6 | 31 |
| 34 | PTHrP promotes murine secondary trophoblast giant cell differentiation through induction of endocycle, upregulation of giant-cell-promoting transcription factors and suppression of other trophoblast cell types. <i>Differentiation</i> , 2005, 73, 154-174. | 1.9 | 28 |
| 35 | Trophectoderm differentiation to invasive syncytiotrophoblast is promoted by endometrial epithelial cells during human embryo implantation. <i>Human Reproduction</i> , 2022, 37, 777-792. | 0.9 | 28 |
| 36 | Clinically failed eggs as a source of normal human embryo stem cells. <i>Stem Cell Research</i> , 2009, 2, 188-197. | 0.7 | 27 |

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|----|---|-----|-----------|
| 37 | PTHrP induces changes in cell cytoskeleton and E-cadherin and regulates Eph/Ephrin kinases and RhoGTPases in murine secondary trophoblast cells. <i>Developmental Biology</i> , 2006, 290, 13-31. | 2.0 | 24 |
| 38 | Kidney organoids recapitulate human basement membrane assembly in health and disease. <i>ELife</i> , 2022, 11, . | 6.0 | 23 |
| 39 | Optogenetic Control of the BMP Signaling Pathway. <i>ACS Synthetic Biology</i> , 2020, 9, 3067-3078. | 3.8 | 22 |
| 40 | Characterisation of Osteopontin in an In Vitro Model of Embryo Implantation. <i>Cells</i> , 2019, 8, 432. | 4.1 | 21 |
| 41 | Polymer Supported Directed Differentiation Reveals a Unique Gene Signature Predicting Stable Hepatocyte Performance. <i>Advanced Healthcare Materials</i> , 2015, 4, 1820-1825. | 7.6 | 20 |
| 42 | Recombinant Extracellular Matrix Protein Fragments Support Human Embryonic Stem Cell Chondrogenesis. <i>Tissue Engineering - Part A</i> , 2018, 24, 968-978. | 3.1 | 20 |
| 43 | The effects of hyaluronate-containing medium on human embryo attachment to endometrial epithelial cells in vitro. <i>Human Reproduction Open</i> , 2020, 2020, hoz033. | 5.4 | 18 |
| 44 | Human feeder cell line for derivation and culture of hESC/hiPSc. <i>Stem Cell Research</i> , 2011, 7, 154-162. | 0.7 | 17 |
| 45 | Modelling the developmental spliceosomal craniofacial disorder Burn-McKeown syndrome using induced pluripotent stem cells. <i>PLoS ONE</i> , 2020, 15, e0233582. | 2.5 | 17 |
| 46 | Derivation of Man-1 and Man-2 research grade human embryonic stem cell lines. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2010, 46, 386-394. | 1.5 | 15 |
| 47 | Generation of Human-Induced Pluripotent Stem Cells From Anterior Cruciate Ligament. <i>Journal of Orthopaedic Research</i> , 2020, 38, 92-104. | 2.3 | 14 |
| 48 | Regulation of TGF β 2 Signalling by TRPV4 in Chondrocytes. <i>Cells</i> , 2021, 10, 726. | 4.1 | 12 |
| 49 | Hydrostatic pressure promotes chondrogenic differentiation and microvesicle release from human embryonic and bone marrow stem cells. <i>Biotechnology Journal</i> , 2022, 17, e2100401. | 3.5 | 12 |
| 50 | The Transcription Factor-microRNA Regulatory Network during hESC-chondrogenesis. <i>Scientific Reports</i> , 2020, 10, 4744. | 3.3 | 11 |
| 51 | Developmental principles informing human pluripotent stem cell differentiation to cartilage and bone. <i>Seminars in Cell and Developmental Biology</i> , 2022, 127, 17-36. | 5.0 | 11 |
| 52 | Gene expression profiling of the developing mouse kidney and embryo. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2010, 46, 155-165. | 1.5 | 10 |
| 53 | Naturally Immortalised Mouse Embryonic Fibroblast Lines Support Human Embryonic Stem Cell Growth. <i>Cloning and Stem Cells</i> , 2009, 11, 453-462. | 2.6 | 9 |
| 54 | Protein O-GlcNAcylation Promotes Trophoblast Differentiation at Implantation. <i>Cells</i> , 2020, 9, 2246. | 4.1 | 9 |

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|----|---|-----|-----------|
| 55 | A Preliminary Evaluation of the Pro-Chondrogenic Potential of 3D-Bioprinted Poly(ester Urea) Scaffolds. <i>Polymers</i> , 2020, 12, 1478. | 4.5 | 9 |
| 56 | Towards Modelling Genetic Kidney Diseases with Human Pluripotent Stem Cells. <i>Nephron</i> , 2021, 145, 285-296. | 1.8 | 8 |
| 57 | Formation of Mature Nephrons by Implantation of Human Pluripotent Stem Cell-Derived Progenitors into Mice. <i>Methods in Molecular Biology</i> , 2020, 2067, 309-322. | 0.9 | 8 |
| 58 | PTHrP is essential for normal morphogenetic and functional development of the murine placenta. <i>Developmental Biology</i> , 2017, 430, 325-336. | 2.0 | 7 |
| 59 | The miR-199a/214 Cluster Controls Nephrogenesis and Vascularization in a Human Embryonic Stem Cell Model. <i>Stem Cell Reports</i> , 2021, 16, 134-148. | 4.8 | 7 |
| 60 | Blastocyst implantation:the adhesion cascade. <i>Reproductive Medicine and Assisted Reproductive Techniques Series</i> , 2008, , 331-351. | 0.1 | 7 |
| 61 | Characterization of the mechanism by which a nonsense variant in <i>RYR2</i> leads to disordered calcium handling. <i>Physiological Reports</i> , 2022, 10, e15265. | 1.7 | 7 |
| 62 | SIRT1 activity orchestrates ECM expression during hESC chondrogenic differentiation. <i>FASEB Journal</i> , 2022, 36, e22314. | 0.5 | 7 |
| 63 | Pluripotent stem cells for skeletal tissue engineering. <i>Critical Reviews in Biotechnology</i> , 2022, 42, 774-793. | 9.0 | 6 |
| 64 | Gene expression analysis of a new source of human oocytes and embryos for research and human embryonic stem cell derivation. <i>Fertility and Sterility</i> , 2011, 95, 1410-1415. | 1.0 | 5 |
| 65 | Osmotic stress induces JNK-dependent embryo invasion in a model of implantation. <i>Reproduction</i> , 2018, 156, 421-428. | 2.6 | 5 |
| 66 | Aberrant Differentiation of Human Pluripotent Stem Cell-Derived Kidney Precursor Cells inside Mouse Vascularized Bioreactors. <i>Nephron</i> , 2020, 144, 509-524. | 1.8 | 5 |
| 67 | From human pluripotent stem cells to functional kidney organoids and models of renal disease. <i>Stem Cell Investigation</i> , 2018, 5, 20-20. | 3.0 | 4 |
| 68 | The expression and activity of Toll-like receptors in the preimplantation human embryo suggest a new role for innate immunity. <i>Human Reproduction</i> , 2021, 36, 2661-2675. | 0.9 | 3 |
| 69 | The role of Trp53 in the mouse embryonic response to DNA damage. <i>Molecular Human Reproduction</i> , 2019, 25, 397-407. | 2.8 | 2 |
| 70 | Polyurethane: Stable Cell Phenotype Requires Plasticity: Polymer Supported Directed Differentiation Reveals a Unique Gene Signature Predicting Stable Hepatocyte Performance (Adv. Healthcare Mater.) Tj ETQq0 0 0 1gBT /Overlock 10 Tf | | |
| 71 | Embryonic Stem Cells. , 2018, , 1-51. | | 1 |
| 72 | In situ Hybridization of miRNAs in Human Embryonic Kidney and Human Pluripotent Stem Cell-derived Kidney Organoids. <i>Bio-protocol</i> , 2021, 11, e4150. | 0.4 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|----|-----------|
| 73 | Embryonic Stem Cells. , 2020, , 315-365. | | 0 |
| 74 | Title is missing!. , 2020, 15, e0233582. | | 0 |
| 75 | Title is missing!. , 2020, 15, e0233582. | | 0 |
| 76 | Title is missing!. , 2020, 15, e0233582. | | 0 |
| 77 | Title is missing!. , 2020, 15, e0233582. | | 0 |