

# Paul De Sousa

## 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.

101  
papers

5,393  
citations

37  
h-index

73  
g-index

105  
ext. papers

5,772  
ext. citations

6.8  
avg, IF

4.89  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 101 | Cardiac malformation in neonatal mice lacking connexin43. <i>Science</i> , <b>1995</b> , 267, 1831-4  | 33.3 | 1095      |
| 100 | Somatic cell nuclear transfer. <i>Nature</i> , <b>2002</b> , 419, 583-6   | 50.4 | 419       |
| 99  | Screening ethnically diverse human embryonic stem cells identifies a chromosome 20 minimal amplicon conferring growth advantage. <i>Nature Biotechnology</i> , <b>2011</b> , 29, 1132-44  | 44.5 | 406       |
| 98  | Deletion of the alpha(1,3)galactosyl transferase (GGTA1) gene and the prion protein (PrP) gene in sheep. <i>Nature Biotechnology</i> , <b>2001</b> , 19, 559-62   | 44.5 | 216       |
| 97  | Evaluation of gestational deficiencies in cloned sheep fetuses and placentae. <i>Biology of Reproduction</i> , <b>2001</b> , 65, 23-30  | 3.9  | 171       |
| 96  | Lineage-specific distribution of high levels of genomic 5-hydroxymethylcytosine in mammalian development. <i>Cell Research</i> , <b>2011</b> , 21, 1332-42  | 24.7 | 161       |
| 95  | Somatic cell nuclear transfer in the pig: control of pronuclear formation and integration with improved methods for activation and maintenance of pregnancy. <i>Biology of Reproduction</i> , <b>2002</b> , 66, 642-50  | 3.9  | 155       |
| 94  | Transient expression of translation initiation factor eIF-4C during the 2-cell stage of the preimplantation mouse embryo: identification by mRNA differential display and the role of DNA replication in zygotic gene activation. <i>Developmental Biology</i> , <b>1996</b> , 174, 190-201 | 3.1  | 144       |
| 93  | Impact of bovine oocyte maturation media on oocyte transcript levels, blastocyst development, cell number, and apoptosis. <i>Biology of Reproduction</i> , <b>2000</b> , 62, 355-64   | 3.9  | 138       |
| 92  | Consensus guidance for banking and supply of human embryonic stem cell lines for research purposes. <i>Stem Cell Reviews and Reports</i> , <b>2009</b> , 5, 301-14  | 6.4  | 115       |
| 91  | A thermoresponsive and chemically defined hydrogel for long-term culture of human embryonic stem cells. <i>Nature Communications</i> , <b>2013</b> , 4, 1335  | 17.4 | 99        |
| 90  | Dielectrophoresis: a review of applications for stem cell research. <i>Journal of Biomedicine and Biotechnology</i> , <b>2010</b> , 2010, 182581  |      | 93        |
| 89  | Connexin trafficking and the control of gap junction assembly in mouse preimplantation embryos. <i>Development (Cambridge)</i> , <b>1993</b> , 117, 1355-1367   | 6.6  | 90        |
| 88  | Cumulus gene expression as a predictor of human oocyte fertilisation, embryo development and competence to establish a pregnancy. <i>Reproduction</i> , <b>2009</b> , 138, 629-37   | 3.8  | 84        |
| 87  | Points to consider in the development of seed stocks of pluripotent stem cells for clinical applications: International Stem Cell Banking Initiative (ISCB). <i>Regenerative Medicine</i> , <b>2015</b> , 10, 1-44  | 2.5  | 77        |
| 86  | Temporal patterns of embryonic gene expression and their dependence on oogenetic factors. <i>Theriogenology</i> , <b>1998</b> , 49, 115-28  | 2.8  | 77        |
| 85  | Germinal vesicle material is essential for nucleus remodeling after nuclear transfer. <i>Biology of Reproduction</i> , <b>2002</b> , 67, 928-34   | 3.9  | 74        |

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|----|---|------|----|
| 84 | Analysis of variation in relative mRNA abundance for specific gene transcripts in single bovine oocytes and early embryos. <i>Molecular Reproduction and Development</i> , <b>1998</b> , 49, 119-30         | 2.6  | 69 |
| 83 | Coexpression of gap junction proteins in the cumulus-oocyte complex. <i>Molecular Reproduction and Development</i> , <b>1993</b> , 36, 7-15   | 2.6  | 67 |
| 82 | Oogenetic and zygotic gene expression directing early bovine embryogenesis: a review. <i>Molecular Reproduction and Development</i> , <b>1998</b> , 51, 112-21  | 2.6  | 65 |
| 81 | Proliferative lifespan is conserved after nuclear transfer. <i>Nature Cell Biology</i> , <b>2003</b> , 5, 535-8   | 23.4 | 64 |
| 80 | Observing Huntington's Disease: the European Huntington's Disease Network's REGISTRY. <i>PLOS Currents</i> , <b>2010</b> , 2,   |      | 64 |
| 79 | Cloned mice derived from embryonic stem cell karyoplasts and activated cytoplasts prepared by induced enucleation. <i>Biology of Reproduction</i> , <b>2003</b> , 68, 1259-66                               | 3.9  | 57 |
| 78 | Brain-derived neurotrophic factor promotes bovine oocyte cytoplasmic competence for embryo development. <i>Reproduction</i> , <b>2005</b> , 129, 423-34   | 3.8  | 57 |
| 77 | Somatic cell nuclear transfer: recent progress and challenges. <i>Cloning and Stem Cells</i> , <b>2002</b> , 4, 81-90   |      | 56 |
| 76 | Gene expression regulating blastocyst formation. <i>Theriogenology</i> , <b>1999</b> , 51, 117-33   | 2.8  | 56 |
| 75 | 5-azacytidine improves the osteogenic differentiation potential of aged human adipose-derived mesenchymal stem cells by DNA demethylation. <i>PLoS ONE</i> , <b>2014</b> , 9, e90846                        | 3.7  | 56 |
| 74 | Improvement of an electrical activation protocol for porcine oocytes. <i>Biology of Reproduction</i> , <b>2002</b> , 66, 635-41   | 3.9  | 54 |
| 73 | Transient expression of a translation initiation factor is conservatively associated with embryonic gene activation in murine and bovine embryos. <i>Biology of Reproduction</i> , <b>1998</b> , 59, 969-77 | 3.9  | 54 |
| 72 | Zygotic expression of the connexin43 gene supplies subunits for gap junction assembly during mouse preimplantation development. <i>Molecular Reproduction and Development</i> , <b>1991</b> , 30, 18-26     | 2.6  | 53 |
| 71 | Reprogramming of fibroblast nuclei after transfer into bovine oocytes. <i>Cloning</i> , <b>1999</b> , 1, 63-9   |      | 52 |
| 70 | Variations in humanized and defined culture conditions supporting derivation of new human embryonic stem cell lines. <i>Cloning and Stem Cells</i> , <b>2006</b> , 8, 319-34                                |      | 50 |
| 69 | Human cloning: can it be made safe?. <i>Nature Reviews Genetics</i> , <b>2003</b> , 4, 855-64   | 30.1 | 50 |
| 68 | Effect of cell confluence on production of cloned mice using an inbred embryonic stem cell line. <i>Biology of Reproduction</i> , <b>2003</b> , 68, 595-603   | 3.9  | 50 |
| 67 | Sensitivity of bovine blastocyst gene expression patterns to culture environments assessed by differential display RT-PCR. <i>Reproduction</i> , <b>2001</b> , 122, 687-693                                 | 3.8  | 48 |

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|----|--|------|----|
| 66 | The Molecular Karyotype of 25 Clinical-Grade Human Embryonic Stem Cell Lines. <i>Scientific Reports</i> , <b>2015</b> , 5, 17258   | 4.9  | 47 |
| 65 | Rapid establishment of the European Bank for induced Pluripotent Stem Cells (EBiSC) - the Hot Start experience. <i>Stem Cell Research</i> , <b>2017</b> , 20, 105-114                                    | 1.6  | 45 |
| 64 | Normal development of preimplantation mouse embryos deficient in gap junctional coupling. <i>Journal of Cell Science</i> , <b>1997</b> , 110, 1751-1758  | 5.3  | 37 |
| 63 | Dielectrophoresis based discrimination of human embryonic stem cells from differentiating derivatives. <i>Biomicrofluidics</i> , <b>2012</b> , 6, 44113  | 3.2  | 33 |
| 62 | Regulation of Na <sup>+</sup> ,K <sup>(+)</sup> -ATPase alpha subunit gene expression during mouse preimplantation development. <i>Developmental Biology</i> , <b>1994</b> , 162, 259-66                 | 3.1  | 33 |
| 61 | Development and production of good manufacturing practice grade human embryonic stem cell lines as source material for clinical application. <i>Stem Cell Research</i> , <b>2016</b> , 17, 379-390       | 1.6  | 32 |
| 60 | Brain-derived neurotrophic factor is a regulator of human oocyte maturation and early embryo development. <i>Fertility and Sterility</i> , <b>2010</b> , 93, 1394-406                                    | 4.8  | 31 |
| 59 | Long term mesenchymal stem cell culture on a defined synthetic substrate with enzyme free passaging. <i>Biomaterials</i> , <b>2014</b> , 35, 5998-6005   | 15.6 | 28 |
| 58 | Clinically failed eggs as a source of normal human embryo stem cells. <i>Stem Cell Research</i> , <b>2009</b> , 2, 188-97  | 1.6  | 26 |
| 57 | Elasticity of human embryonic stem cells as determined by atomic force microscopy. <i>Journal of Biomechanical Engineering</i> , <b>2011</b> , 133, 101009   | 2.1  | 26 |
| 56 | Effects of donor oocytes and culture conditions on development of cloned mice embryos. <i>Molecular Reproduction and Development</i> , <b>2003</b> , 66, 126-33  | 2.6  | 26 |
| 55 | Embryo development and establishment of pregnancy after embryo transfer in pigs: coping with limitations in the availability of viable embryos. <i>Reproduction</i> , <b>2002</b> , 123, 507-515         | 3.8  | 26 |
| 54 | High-density polymer microarrays: identifying synthetic polymers that control human embryonic stem cell growth. <i>Advanced Healthcare Materials</i> , <b>2014</b> , 3, 848-53                           | 10.1 | 24 |
| 53 | Paracrine signalling events in embryonic stem cell renewal mediated by affinity targeted nanoparticles. <i>Biomaterials</i> , <b>2012</b> , 33, 6634-43  | 15.6 | 23 |
| 52 | Monocrotophos in Gandaman village: India school lunch deaths and need for improved toxicity testing. <i>Archives of Toxicology</i> , <b>2013</b> , 87, 1877-81   | 5.8  | 22 |
| 51 | A role for intracellular calcium downstream of G-protein signaling in undifferentiated human embryonic stem cell culture. <i>Stem Cell Research</i> , <b>2012</b> , 9, 171-84                            | 1.6  | 21 |
| 50 | Semi-quantitative immunohistochemical detection of 5-hydroxymethyl-cytosine reveals conservation of its tissue distribution between amphibians and mammals. <i>Epigenetics</i> , <b>2012</b> , 7, 137-40 | 5.7  | 21 |
| 49 | Connexin trafficking and the control of gap junction assembly in mouse preimplantation embryos. <i>Development (Cambridge)</i> , <b>1993</b> , 117, 1355-67  | 6.6  | 16 |

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|----|--|------|----|
| 48 | Expression of FBN1 during adipogenesis: Relevance to the lipodystrophy phenotype in Marfan syndrome and related conditions. <i>Molecular Genetics and Metabolism</i> , <b>2016</b> , 119, 174-85                                 | 3.7  | 15 |
| 47 | Human parthenogenetic embryo stem cells: appreciating what you have when you have it. <i>Cell Stem Cell</i> , <b>2007</b> , 1, 243-4   | 18   | 14 |
| 46 | Novel Human Embryonic Stem Cell Regulators Identified by Conserved and Distinct CpG Island Methylation State. <i>PLoS ONE</i> , <b>2015</b> , 10, e0131102   | 3.7  | 14 |
| 45 | The road to providing human embryo stem cells for therapeutic use: the UK experience. <i>Reproduction</i> , <b>2006</b> , 132, 681-9   | 3.8  | 13 |
| 44 | Derivation of the clinical grade human embryonic stem cell line RCe021-A (RC-17). <i>Stem Cell Research</i> , <b>2016</b> , 17, 1-5  | 1.6  | 12 |
| 43 | Derivation of the clinical grade human embryonic stem cell line RCe013-A (RC-9). <i>Stem Cell Research</i> , <b>2016</b> , 17, 36-41   | 1.6  | 12 |
| 42 | Human embryonic stem cells rapidly take up and then clear exogenous human and animal prions in vitro. <i>Journal of Pathology</i> , <b>2011</b> , 223, 635-45  | 9.4  | 12 |
| 41 | Neurotrophin signaling in oocyte survival and developmental competence: a paradigm for cellular totipotency. <i>Cloning and Stem Cells</i> , <b>2004</b> , 6, 375-85   |      | 11 |
| 40 | A high-throughput polymer microarray approach for identifying defined substrates for mesenchymal stem cells. <i>Biomaterials Science</i> , <b>2014</b> , 2, 1683-1692  | 7.4  | 9  |
| 39 | Balancing open source stem cell science with commercialization. <i>Nature Biotechnology</i> , <b>2011</b> , 29, 115-6  | 44.5 | 9  |
| 38 | Red blood cells from pluripotent stem cells for use in transfusion. <i>Regenerative Medicine</i> , <b>2010</b> , 5, 411-23   | 3.5  | 9  |
| 37 | The effect of cytochalasin D on protein synthesis in <i>Xenopus laevis</i> oocytes. <i>Molecular Reproduction and Development</i> , <b>1990</b> , 26, 248-52   | 2.6  | 9  |
| 36 | Thermoresponsive hydrogel maintains the mouse embryonic stem cell "naïve" pluripotency phenotype. <i>Biomaterials Science</i> , <b>2015</b> , 3, 1371-5  | 7.4  | 8  |
| 35 | Human tonsil-derived follicular dendritic-like cells are refractory to human prion infection in vitro and traffic disease-associated prion protein to lysosomes. <i>American Journal of Pathology</i> , <b>2014</b> , 184, 64-70 | 5.8  | 8  |
| 34 | Regulation of gene expression in the preimplantation mouse embryo. <i>Theriogenology</i> , <b>1995</b> , 44, 1115-1128   | 3.8  | 8  |
| 33 | A scalable label-free approach to separate human pluripotent cells from differentiated derivatives. <i>Biomicrofluidics</i> , <b>2016</b> , 10, 014107   | 3.2  | 7  |
| 32 | Normal development of preimplantation mouse embryos deficient in gap junctional coupling. <i>Journal of Cell Science</i> , <b>1997</b> , 110 ( Pt 15), 1751-8  | 5.3  | 7  |
| 31 | White matter tract and glial-associated changes in 5-hydroxymethylcytosine following chronic cerebral hypoperfusion. <i>Brain Research</i> , <b>2014</b> , 1592, 82-100  | 3.7  | 6  |

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|----|---|------|---|
| 30 | Sufficiency of hypoxia-inducible 2-oxoglutarate dioxygenases to block chemical oxidative stress-induced differentiation of human embryonic stem cells. <i>Stem Cell Research</i> , <b>2019</b> , 34, 101358 | 1.6  | 5 |
| 29 | Hot Start to European Pluripotent Stem Cell Banking. <i>Trends in Biotechnology</i> , <b>2017</b> , 35, 573-576   | 15.1 | 4 |
| 28 | EBiSC best practice: How to ensure optimal generation, qualification, and distribution of iPSC lines. <i>Stem Cell Reports</i> , <b>2021</b> , 16, 1853-1867  | 8    | 4 |
| 27 | Quality Assured Characterization of Stem Cells for Safety in Banking for Clinical Application. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1590, 79-98  | 1.4  | 3 |
| 26 | Derivation of the clinical grade human embryonic stem cell line RCe015-A (RC-11). <i>Stem Cell Research</i> , <b>2016</b> , 17, 42-48   | 1.6  | 3 |
| 25 | Derivation of the clinical grade human embryonic stem cell line RCe016-A (RC-12). <i>Stem Cell Research</i> , <b>2016</b> , 16, 770-5   | 1.6  | 3 |
| 24 | Analysis of variation in relative mRNA abundance for specific gene transcripts in single bovine oocytes and early embryos <b>1998</b> , 49, 119   |      | 3 |
| 23 | Derivation of the human embryonic stem cell line RCM1. <i>Stem Cell Research</i> , <b>2016</b> , 16, 476-80   | 1.6  | 2 |
| 22 | Derivation of the clinical grade human embryonic stem cell line RCe020-a (RC-16). <i>Stem Cell Research</i> , <b>2016</b> , 16, 790-4   | 1.6  | 2 |
| 21 | Localization of $\beta$ subunits and comparison of $\beta$ subunit transcript levels in single cultured and in vivo bovine blastocysts. <i>Theriogenology</i> , <b>1997</b> , 47, 316                       | 2.8  | 2 |
| 20 | Derivation of the clinical grade human embryonic stem cell line RCe018-A (RC-14). <i>Stem Cell Research</i> , <b>2016</b> , 16, 761-5   | 1.6  | 2 |
| 19 | Derivation of the clinical grade human embryonic stem cell line RCe019-A (RC-15). <i>Stem Cell Research</i> , <b>2016</b> , 16, 751-5   | 1.6  | 2 |
| 18 | Derivation of the clinical grade human embryonic stem cell line RCe017-A (RC-13). <i>Stem Cell Research</i> , <b>2016</b> , 16, 756-60  | 1.6  | 2 |
| 17 | Datasets of genes coexpressed with FBN1 in mouse adipose tissue and during human adipogenesis. <i>Data in Brief</i> , <b>2016</b> , 8, 851-7  | 1.2  | 2 |
| 16 | Derivation of the human embryonic stem cell line RCe010-A (RC-6). <i>Stem Cell Research</i> , <b>2016</b> , 16, 481-4   | 1.6  | 1 |
| 15 | Derivation of the human embryonic stem cell line RCe006-A (RC-2). <i>Stem Cell Research</i> , <b>2016</b> , 16, 452-5   | 1.6  | 1 |
| 14 | Derivation of the human embryonic stem cell line RCe011-A (RC-7). <i>Stem Cell Research</i> , <b>2016</b> , 16, 485-8   | 1.6  | 1 |
| 13 | Quality Assessment and Production of Human Cells for Clinical Use. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1780, 607-629  | 1.4  | 1 |

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|----|---|------|---|
| 12 | Effects of brefeldin-A and monensin on organelle distribution and morphology in the preimplantation mouse embryo. <i>Development Genes and Evolution</i> , <b>1997</b> , 206, 503-514 | 1.8  | 1 |
| 11 | Stem Cells in the Development of Products for Regenerative Medicine <b>2012</b> , 77-97   |      | 1 |
| 10 | Maintenance of pregnancy in pigs with limited viable embryos. <i>Methods in Molecular Biology</i> , <b>2006</b> , 348, 79-90  | 1.4  | 1 |
| 9  | Derivation of the human embryonic stem cell line RCe007-A (RC-3). <i>Stem Cell Research</i> , <b>2016</b> , 16, 593-6   | 1.6  | 1 |
| 8  | Derivation of the human embryonic stem cell line RCe009-A (RC-5). <i>Stem Cell Research</i> , <b>2016</b> , 16, 418-22  | 1.6  | 1 |
| 7  | Derivation of the human embryonic stem cell line RCe012-A (RC-8). <i>Stem Cell Research</i> , <b>2016</b> , 16, 489-92  | 1.6  | 1 |
| 6  | Derivation of the human embryonic stem cell line RCe014-A (RC-10). <i>Stem Cell Research</i> , <b>2016</b> , 16, 537-40   | 1.6  | 1 |
| 5  | Derivation of the human embryonic stem cell line RCe008-A (RC-4). <i>Stem Cell Research</i> , <b>2016</b> , 16, 607-10  | 1.6  | 1 |
| 4  | Renewed assessment of the risk of emergent advanced cell therapies to transmit neuroproteinopathies. <i>Acta Neuropathologica</i> , <b>2019</b> , 137, 363-377                        | 14.3 | 1 |
| 3  | Cloning in Research and Treatment of Human Genetic Disease <b>2010</b> , 875-883  |      |   |
| 2  | Challenges of Scale-up of Cell Separation and Purification Techniques <b>2016</b> , 127-165   |      |   |
| 1  | Human Embryonic Stem Cell Banking for Clinical Applications 20 Years from Their Isolation <b>2021</b> , 273-286   |      |   |