# M Azim Surani

## List of Publications by Citations



| 197 | 25,747 | 77 | 160 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 213 | 29,156 | 16.3 | 6.93 |
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| ext. papers | ext. citations | avg, IF | L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 197 | mRNA-Seq whole-transcriptome analysis of a single cell. *Nature Methods*, **2009**, 6, 377-82 | 21.6 | 1813 |
| 196 | Epigenetic reprogramming in mouse primordial germ cells. *Mechanisms of Development*, **2002**, 117, 15-23 | 1.7 | 986 |
| 195 | Endogenous siRNAs from naturally formed dsRNAs regulate transcripts in mouse oocytes. *Nature*, **2008**, 453, 539-43 | 50.4 | 894 |
| 194 | Blimp1 is a critical determinant of the germ cell lineage in mice. *Nature*, **2005**, 436, 207-13 | 50.4 | 769 |
| 193 | A molecular programme for the specification of germ cell fate in mice. *Nature*, **2002**, 418, 293-300 | 50.4 | 702 |
| 192 | The polycomb-group gene Ezh2 is required for early mouse development. *Molecular and Cellular Biology*, **2001**, 21, 4330-6 | 4.8 | 683 |
| 191 | Germline DNA demethylation dynamics and imprint erasure through 5-hydroxymethylcytosine. *Science*, **2013**, 339, 448-52 | 33.3 | 576 |
| 190 | Resistance of IAPs to methylation reprogramming may provide a mechanism for epigenetic inheritance in the mouse. *Genesis*, **2003**, 35, 88-93 | 1.9 | 544 |
| 189 | Genetic and epigenetic regulators of pluripotency. *Cell*, **2007**, 128, 747-62 | 56.2 | 529 |
| 188 | Chromatin dynamics during epigenetic reprogramming in the mouse germ line. *Nature*, **2008**, 452, 877-81 | 50.4 | 513 |
| 187 | Dynamic equilibrium and heterogeneity of mouse pluripotent stem cells with distinct functional and epigenetic states. *Cell Stem Cell*, **2008**, 3, 391-401 | 18 | 500 |
| 186 | Eomesodermin is required for mouse trophoblast development and mesoderm formation. *Nature*, **2000**, 404, 95-9 | 50.4 | 494 |
| 185 | SOX17 is a critical specifier of human primordial germ cell fate. *Cell*, **2015**, 160, 253-68 | 56.2 | 490 |
| 184 | Abnormal maternal behaviour and growth retardation associated with loss of the imprinted gene Mest. *Nature Genetics*, **1998**, 20, 163-9 | 36.3 | 463 |
| 183 | Maternal microRNAs are essential for mouse zygotic development. *Genes and Development*, **2007**, 21, 644-8 | 12.6 | 427 |
| 182 | Genomic imprinting determines methylation of parental alleles in transgenic mice. *Nature*, **1987**, 328, 248-51 | 50.4 | 423 |
| 181 | A Unique Gene Regulatory Network Resets the Human Germline Epigenome for Development. *Cell*, **2015**, 161, 1453-67 | 56.2 | 417 |

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| 180 | Tracing the derivation of embryonic stem cells from the inner cell mass by single-cell RNA-Seq analysis. *Cell Stem Cell*, **2010**, 6, 468-78 | 18 | 407 |
| 179 | RNA-Seq analysis to capture the transcriptome landscape of a single cell. *Nature Protocols*, **2010**, 5, 516-35 | 15.8 | 383 |
| 178 | Genome-wide reprogramming in the mouse germ line entails the base excision repair pathway. *Science*, **2010**, 329, 78-82 | 33.3 | 380 |
| 177 | Naive pluripotency is associated with global DNA hypomethylation. *Nature Structural and Molecular Biology*, **2013**, 20, 311-6 | 17.6 | 378 |
| 176 | Blimp1 associates with Prmt5 and directs histone arginine methylation in mouse germ cells. *Nature Cell Biology*, **2006**, 8, 623-30 | 23.4 | 377 |
| 175 | Parental-origin-specific epigenetic modification of the mouse H19 gene. *Nature*, **1993**, 362, 751-5 | 50.4 | 377 |
| 174 | Reprogramming of genome function through epigenetic inheritance. *Nature*, **2001**, 414, 122-8 | 50.4 | 367 |
| 173 | MicroRNA biogenesis is required for mouse primordial germ cell development and spermatogenesis. *PLoS ONE*, **2008**, 3, e1738 | 3.7 | 356 |
| 172 | Imprinting and the epigenetic asymmetry between parental genomes. *Science*, **2001**, 293, 1086-9 | 33.3 | 351 |
| 171 | Epigenetic reversion of post-implantation epiblast to pluripotent embryonic stem cells. *Nature*, **2009**, 461, 1292-5 | 50.4 | 320 |
| 170 | Stella is a maternal effect gene required for normal early development in mice. *Current Biology*, **2003**, 13, 2110-7 | 6.3 | 312 |
| 169 | A role for Lin28 in primordial germ-cell development and germ-cell malignancy. *Nature*, **2009**, 460, 909-13 | 50.4 | 306 |
| 168 | Identification of an imprinted gene, Meg3/Gtl2 and its human homologue MEG3, first mapped on mouse distal chromosome 12 and human chromosome 14q. *Genes To Cells*, **2000**, 5, 211-20 | 2.3 | 292 |
| 167 | MicroRNA expression profiling of single whole embryonic stem cells. *Nucleic Acids Research*, **2006**, 34, e9 | 20.1 | 282 |
| 166 | H19 acts as a trans regulator of the imprinted gene network controlling growth in mice. *Development (Cambridge)*, **2009**, 136, 3413-21 | 6.6 | 272 |
| 165 | Peg1/Mest imprinted gene on chromosome 6 identified by cDNA subtraction hybridization. *Nature Genetics*, **1995**, 11, 52-9 | 36.3 | 254 |
| 164 | Regulatory principles of pluripotency: from the ground state up. *Cell Stem Cell*, **2014**, 15, 416-430 | 18 | 247 |
| 163 | The transcriptional and signalling networks of pluripotency. *Nature Cell Biology*, **2011**, 13, 490-6 | 23.4 | 247 |

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| 162 | Germ cell specification in mice. *Science*, **2007**, 316, 394-6 | 33.3 | 247 |
| 161 | Specification and epigenetic programming of the human germ line. *Nature Reviews Genetics*, **2016**, 17, 585-600 | 30.1 | 246 |
| 160 | Consequences of the depletion of zygotic and embryonic enhancer of zeste 2 during preimplantation mouse development. *Development (Cambridge)*, **2003**, 130, 4235-48 | 6.6 | 246 |
| 159 | Development and applications of single-cell transcriptome analysis. *Nature Methods*, **2011**, 8, S6-11 | 21.6 | 230 |
| 158 | Prmt5 is essential for early mouse development and acts in the cytoplasm to maintain ES cell pluripotency. *Genes and Development*, **2010**, 24, 2772-7 | 12.6 | 221 |
| 157 | Peg3 imprinted gene on proximal chromosome 7 encodes for a zinc finger protein. *Nature Genetics*, **1996**, 12, 186-90 | 36.3 | 215 |
| 156 | Dynamic heterogeneity and DNA methylation in embryonic stem cells. *Molecular Cell*, **2014**, 55, 319-31 | 17.6 | 210 |
| 155 | DNA methylation dynamics during the mammalian life cycle. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2013**, 368, 20110328 | 5.8 | 202 |
| 154 | A tripartite transcription factor network regulates primordial germ cell specification in mice. *Nature Cell Biology*, **2013**, 15, 905-15 | 23.4 | 187 |
| 153 | Coadaptation in mother and infant regulated by a paternally expressed imprinted gene. *Proceedings of the Royal Society B: Biological Sciences*, **2004**, 271, 1303-9 | 4.4 | 169 |
| 152 | Principles of early human development and germ cell program from conserved model systems. *Nature*, **2017**, 546, 416-420 | 50.4 | 156 |
| 151 | Parallel mechanisms of epigenetic reprogramming in the germline. *Trends in Genetics*, **2012**, 28, 164-74 | 8.5 | 142 |
| 150 | Self-renewing epiblast stem cells exhibit continual delineation of germ cells with epigenetic reprogramming in vitro. *Development (Cambridge)*, **2009**, 136, 3549-56 | 6.6 | 135 |
| 149 | X chromosome activity in mouse XX primordial germ cells. *PLoS Genetics*, **2008**, 4, e30 | 6 | 129 |
| 148 | Generation of stella-GFP transgenic mice: a novel tool to study germ cell development. *Genesis*, **2006**, 44, 75-83 | 1.9 | 128 |
| 147 | Establishment of porcine and human expanded potential stem cells. *Nature Cell Biology*, **2019**, 21, 687-699 | 23.4 | 127 |
| 146 | Deterministic and stochastic allele specific gene expression in single mouse blastomeres. *PLoS ONE* , **2011**, 6, e21208 | 3.7 | 122 |
| 145 | Trim28 Haploinsufficiency Triggers Bi-stable Epigenetic Obesity. *Cell*, **2016**, 164, 353-64 | 56.2 | 121 |

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| 144 | Prdm14 promotes germline fate and naive pluripotency by repressing FGF signalling and DNA methylation. *EMBO Reports*, **2013**, 14, 629-37 | 6.5 | 118 |
| 143 | Reprogramming primordial germ cells into pluripotent stem cells. *PLoS ONE*, **2008**, 3, e3531 | 3.7 | 118 |
| 142 | Epiblast stem cell-based system reveals reprogramming synergy of germline factors. *Cell Stem Cell*, **2012**, 10, 425-39 | 18 | 114 |
| 141 | Promoter DNA methylation couples genome-defence mechanisms to epigenetic reprogramming in the mouse germline. *Development (Cambridge)*, **2012**, 139, 3623-32 | 6.6 | 111 |
| 140 | Segregation of mitochondrial DNA heteroplasmy through a developmental genetic bottleneck in human embryos. *Nature Cell Biology*, **2018**, 20, 144-151 | 23.4 | 110 |
| 139 | Embryonic germ cells from mice and rats exhibit properties consistent with a generic pluripotent ground state. *Development (Cambridge)*, **2010**, 137, 2279-87 | 6.6 | 110 |
| 138 | NANOG alone induces germ cells in primed epiblast in vitro by activation of enhancers. *Nature*, **2016**, 529, 403-407 | 50.4 | 108 |
| 137 | Steel factor controls primordial germ cell survival and motility from the time of their specification in the allantois, and provides a continuous niche throughout their migration. *Development (Cambridge)*, **2009**, 136, 1295-303 | 6.6 | 105 |
| 136 | Normal germ line establishment in mice carrying a deletion of the Ifitm/Fragilis gene family cluster. *Molecular and Cellular Biology*, **2008**, 28, 4688-96 | 4.8 | 104 |
| 135 | An imprinting element from the mouse H19 locus functions as a silencer in Drosophila. *Nature Genetics*, **1997**, 16, 171-3 | 36.3 | 96 |
| 134 | Synergistic mechanisms of DNA demethylation during transition to ground-state pluripotency. *Stem Cell Reports*, **2013**, 1, 518-31 | 8 | 95 |
| 133 | ERG-associated protein with SET domain (ESET)-Oct4 interaction regulates pluripotency and represses the trophectoderm lineage. *Epigenetics and Chromatin*, **2009**, 2, 12 | 5.8 | 89 |
| 132 | 220-plex microRNA expression profile of a single cell. *Nature Protocols*, **2006**, 1, 1154-9 | 18.8 | 88 |
| 131 | Dppa2 and Dppa4 are closely linked SAP motif genes restricted to pluripotent cells and the germ line. *Stem Cells*, **2007**, 25, 19-28 | 5.8 | 86 |
| 130 | How to make a primordial germ cell. *Development (Cambridge)*, **2014**, 141, 245-52 | 6.6 | 84 |
| 129 | PRMT5 protects genomic integrity during global DNA demethylation in primordial germ cells and preimplantation embryos. *Molecular Cell*, **2014**, 56, 564-79 | 17.6 | 84 |
| 128 | Essential role for Argonaute2 protein in mouse oogenesis. *Epigenetics and Chromatin*, **2009**, 2, 9 | 5.8 | 84 |
| 127 | Loss of TSLC1 causes male infertility due to a defect at the spermatid stage of spermatogenesis. *Molecular and Cellular Biology*, **2006**, 26, 3595-609 | 4.8 | 84 |

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|---|---|---|---|
| 126 | Histone variant macroH2A marks embryonic differentiation in vivo and acts as an epigenetic barrier to induced pluripotency. *Journal of Cell Science*, **2012**, 125, 6094-104 | 5.3 | 82 |
| 125 | Primordial germ-cell development and epigenetic reprogramming in mammals. *Current Topics in Developmental Biology*, **2013**, 104, 149-87 | 5.3 | 82 |
| 124 | Xist-dependent imprinted X inactivation and the early developmental consequences of its failure. *Nature Structural and Molecular Biology*, **2017**, 24, 226-233 | 17.6 | 79 |
| 123 | The role of exogenous fibroblast growth factor-2 on the reprogramming of primordial germ cells into pluripotent stem cells. *Stem Cells*, **2006**, 24, 1441-9 | 5.8 | 79 |
| 122 | Imprinted genes and regulation of gene expression by epigenetic inheritance. *Current Opinion in Cell Biology*, **1996**, 8, 348-53 | 9 | 79 |
| 121 | Cdkn1c (p57Kip2) is the major regulator of embryonic growth within its imprinted domain on mouse distal chromosome 7. *BMC Developmental Biology*, **2007**, 7, 53 | 3.1 | 77 |
| 120 | Targeted chromosome elimination from ES-somatic hybrid cells. *Nature Methods*, **2007**, 4, 23-5 | 21.6 | 77 |
| 119 | Chromatin dynamics and the role of G9a in gene regulation and enhancer silencing during early mouse development. *ELife*, **2015**, 4, | 8.9 | 76 |
| 118 | Resetting the epigenome beyond pluripotency in the germline. *Cell Stem Cell*, **2009**, 4, 493-8 | 18 | 73 |
| 117 | Specification of germ cell fate in mice. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2003**, 358, 1363-70 | 5.8 | 73 |
| 116 | Genome imprinting and development in the mouse. *Development (Cambridge)*, **1990**, 108, 89-98 | 6.6 | 72 |
| 115 | Methylation-dependent silencing at the H19 imprinting control region by MeCP2. *Nucleic Acids Research*, **2002**, 30, 1139-44 | 20.1 | 71 |
| 114 | Beyond DNA: programming and inheritance of parental methylomes. *Cell*, **2013**, 153, 737-9 | 56.2 | 68 |
| 113 | Blimp1 and the emergence of the germ line during development in the mouse. *Cell Cycle*, **2005**, 4, 1736-40 | 4.7 | 68 |
| 112 | Human antibody production in transgenic mice: expression from 100 kb of the human IgH locus. *European Journal of Immunology*, **1991**, 21, 1323-6 | 6.1 | 68 |
| 111 | Genomic characterisation of a Fgf-regulated gradient-based neocortical protomap. *Development (Cambridge)*, **2005**, 132, 3947-61 | 6.6 | 66 |
| 110 | Simultaneous deletion of the methylcytosine oxidases Tet1 and Tet3 increases transcriptome variability in early embryogenesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E4236-45 | 11.5 | 62 |
| 109 | Germline and Pluripotent Stem Cells. *Cold Spring Harbor Perspectives in Biology*, **2015**, 7, | 10.2 | 61 |

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| 108 | Analysis of Esg1 expression in pluripotent cells and the germline reveals similarities with Oct4 and Sox2 and differences between human pluripotent cell lines. *Stem Cells*, **2005**, 23, 1436-42 | 5.8 | 61 |
| 107 | iPS cells: mapping the policy issues. *Cell*, **2009**, 139, 1032-7 | 56.2 | 58 |
| 106 | Stella modulates transcriptional and endogenous retrovirus programs during maternal-to-zygotic transition. *ELife*, **2017**, 6, | 8.9 | 57 |
| 105 | Influence of sex chromosome constitution on the genomic imprinting of germ cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 11184-8 | 11.5 | 56 |
| 104 | Rebuilding pluripotency from primordial germ cells. *Stem Cell Reports*, **2013**, 1, 66-78 | 8 | 55 |
| 103 | Generation of primordial germ cells from pluripotent stem cells. *Differentiation*, **2009**, 78, 116-23 | 3.5 | 53 |
| 102 | On the origin of the human germline. *Development (Cambridge)*, **2018**, 145, | 6.6 | 51 |
| 101 | Pluripotency and X chromosome dynamics revealed in pig pre-gastrulating embryos by single cell analysis. *Nature Communications*, **2019**, 10, 500 | 17.4 | 50 |
| 100 | The non-viability of uniparental mouse conceptuses correlates with the loss of the products of imprinted genes. *Mechanisms of Development*, **1994**, 46, 55-62 | 1.7 | 50 |
| 99 | Germline competency of human embryonic stem cells depends on eomesodermin. *Biology of Reproduction*, **2017**, 97, 850-861 | 3.9 | 49 |
| 98 | Altered primordial germ cell migration in the absence of transforming growth factor beta signaling via ALK5. *Developmental Biology*, **2005**, 284, 194-203 | 3.1 | 49 |
| 97 | Initiation of epigenetic reprogramming of the X chromosome in somatic nuclei transplanted to a mouse oocyte. *EMBO Reports*, **2005**, 6, 748-54 | 6.5 | 48 |
| 96 | Manipulation of the repertoire of digestive enzymes secreted into the gastrointestinal tract of transgenic mice. *Bio/technology*, **1993**, 11, 376-9 | | 47 |
| 95 | Germ cell specification and pluripotency in mammals: a perspective from early embryogenesis. *Reproductive Medicine and Biology*, **2014**, 13, 203-215 | 4.1 | 46 |
| 94 | Dissecting ensemble networks in ES cell populations reveals micro-heterogeneity underlying pluripotency. *Molecular BioSystems*, **2012**, 8, 744-52 | | 45 |
| 93 | Heterogeneity in imprinted methylation patterns of pluripotent embryonic germ cells derived from pre-migratory mouse germ cells. *Developmental Biology*, **2008**, 313, 674-81 | 3.1 | 45 |
| 92 | Activation of Lineage Regulators and Transposable Elements across a Pluripotent Spectrum. *Stem Cell Reports*, **2017**, 8, 1645-1658 | 8 | 43 |
| 91 | Genomic imprinting: developmental significance and molecular mechanism. *Current Opinion in Genetics and Development*, **1991**, 1, 241-6 | 4.9 | 42 |

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| 90 | Metabolic regulation of pluripotency and germ cell fate through αketoglutarate. *EMBO Journal*, **2019**, 38, | 13 | 41 |
| 89 | Epigenetic reprogramming of mouse germ cells toward totipotency. *Cold Spring Harbor Symposia on Quantitative Biology*, **2010**, 75, 211-8 | 3.9 | 40 |
| 88 | Astroglial IFITM3 mediates neuronal impairments following neonatal immune challenge in mice. *Glia*, **2013**, 61, 679-93 | 9 | 39 |
| 87 | Blimp1 expression predicts embryonic stem cell development in vitro. *Current Biology*, **2011**, 21, 1759-65 | 6.3 | 39 |
| 86 | Tracing the transitions from pluripotency to germ cell fate with CRISPR screening. *Nature Communications*, **2018**, 9, 4292 | 17.4 | 38 |
| 85 | Experimental embryological analysis of genetic imprinting in mouse development. *Genesis*, **1994**, 15, 515-22 | | 36 |
| 84 | Imprinting by DNA methylation: from transgenes to endogenous gene sequences. *Development (Cambridge)*, **1990**, 108, 99-106 | 6.6 | 35 |
| 83 | Provision of the immunoglobulin heavy chain enhancer downstream of a test gene is sufficient to confer lymphoid-specific expression in transgenic mice. *European Journal of Immunology*, **1987**, 17, 465-9 | 6.1 | 34 |
| 82 | A critical role of PRDM14 in human primordial germ cell fate revealed by inducible degrons. *Nature Communications*, **2020**, 11, 1282 | 17.4 | 33 |
| 81 | Contribution of epigenetic landscapes and transcription factors to X-chromosome reactivation in the inner cell mass. *Nature Communications*, **2017**, 8, 1297 | 17.4 | 33 |
| 80 | Combinatorial control of cell fate and reprogramming in the mammalian germline. *Current Opinion in Genetics and Development*, **2012**, 22, 466-74 | 4.9 | 33 |
| 79 | Genome-wide identification of targets and function of individual MicroRNAs in mouse embryonic stem cells. *PLoS Genetics*, **2010**, 6, e1001163 | 6 | 33 |
| 78 | Xist expression and macroH2A1.2 localisation in mouse primordial and pluripotent embryonic germ cells. *Differentiation*, **2002**, 69, 216-25 | 3.5 | 33 |
| 77 | Proximal visceral endoderm and extraembryonic ectoderm regulate the formation of primordial germ cell precursors. *BMC Developmental Biology*, **2007**, 7, 140 | 3.1 | 32 |
| 76 | Derivation of hypermethylated pluripotent embryonic stem cells with high potency. *Cell Research*, **2018**, 28, 22-34 | 24.7 | 31 |
| 75 | Targeted DamID reveals differential binding of mammalian pluripotency factors. *Development (Cambridge)*, **2018**, 145, | 6.6 | 30 |
| 74 | Investigating transcriptional states at single-cell-resolution. *Current Opinion in Biotechnology*, **2013**, 24, 69-78 | 11.4 | 29 |
| 73 | Appropriate expression of the mouse H19 gene utilises three or more distinct enhancer regions spread over more than 130 kb. *Mechanisms of Development*, **2000**, 91, 365-8 | 1.7 | 28 |

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| 72 | Esrrb Complementation Rescues Development of Nanog-Null Germ Cells. *Cell Reports*, **2018**, 22, 332-339 | 10.6 | 27 |
| 71 | mRNA-sequencing whole transcriptome analysis of a single cell on the SOLiD system. *Journal of Biomolecular Techniques*, **2009**, 20, 266-71 | 1.1 | 27 |
| 70 | MicroRNAs are tightly associated with RNA-induced gene silencing complexes in vivo. *Biochemical and Biophysical Research Communications*, **2008**, 372, 24-9 | 3.4 | 25 |
| 69 | SRSF3 maintains transcriptome integrity in oocytes by regulation of alternative splicing and transposable elements. *Cell Discovery*, **2018**, 4, 33 | 22.3 | 24 |
| 68 | Primordial germ cell specification: a context-dependent cellular differentiation event [corrected]. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2014**, 369, | 5.8 | 24 |
| 67 | DNA methylation and genomic imprinting in mammals. *Exs*, **1993**, 64, 469-86 | | 24 |
| 66 | A human p57(KIP2) transgene is not activated by passage through the maternal mouse germline. *Human Molecular Genetics*, **1999**, 8, 2211-9 | 5.6 | 22 |
| 65 | A PAX5-OCT4-PRDM1 developmental switch specifies human primordial germ cells. *Nature Cell Biology*, **2018**, 20, 655-665 | 23.4 | 21 |
| 64 | The germ cell determinant Blimp1 is not required for derivation of pluripotent stem cells. *Cell Stem Cell*, **2012**, 11, 110-7 | 18 | 21 |
| 63 | G9a regulates temporal preimplantation developmental program and lineage segregation in blastocyst. *ELife*, **2018**, 7, | 8.9 | 21 |
| 62 | Genetic basis for primordial germ cells specification in mouse and human: Conserved and divergent roles of PRDM and SOX transcription factors. *Current Topics in Developmental Biology*, **2019**, 135, 35-89 | 5.3 | 20 |
| 61 | Membrane-bound steel factor maintains a high local concentration for mouse primordial germ cell motility, and defines the region of their migration. *PLoS ONE*, **2011**, 6, e25984 | 3.7 | 20 |
| 60 | Reprogramming primordial germ cells (PGC) to embryonic germ (EG) cells. *Current Protocols in Stem Cell Biology*, **2008**, Chapter 1, Unit1A.3 | 2.8 | 20 |
| 59 | Efficient Induction and Isolation of Human Primordial Germ Cell-Like Cells from Competent Human Pluripotent Stem Cells. *Methods in Molecular Biology*, **2017**, 1463, 217-226 | 1.4 | 19 |
| 58 | Human Germline: A New Research Frontier. *Stem Cell Reports*, **2015**, 4, 955-60 | 8 | 19 |
| 57 | Mest but Not MiR-335 Affects Skeletal Muscle Growth and Regeneration. *PLoS ONE*, **2015**, 10, e0130436 | 3.7 | 18 |
| 56 | Germ cells: the eternal link between generations. *Comptes Rendus - Biologies*, **2007**, 330, 474-8 | 1.4 | 17 |
| 55 | Polycomb-group proteins are involved in silencing processes caused by a transgenic element from the murine imprinted H19/Igf2 region in Drosophila. *Development Genes and Evolution*, **2003**, 213, 336-44 | 1.8 | 17 |

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|---|---|---|---|
| 54 | Development. Programming the X chromosome. *Science*, **2004**, 303, 633-4 | 33.3 | 16 |
| 53 | Stem cells: a sporadic super state. *Nature*, **2012**, 487, 43-5 | 50.4 | 15 |
| 52 | Human embryo research, stem cell-derived embryo models and in vitro gametogenesis: Considerations leading to the revised ISSCR guidelines. *Stem Cell Reports*, **2021**, 16, 1416-1424 | 8 | 15 |
| 51 | Developmental Competence for Primordial Germ Cell Fate. *Current Topics in Developmental Biology*, **2016**, 117, 471-96 | 5.3 | 15 |
| 50 | Impressions of imprints. *Trends in Genetics*, **1994**, 10, 415-7 | 8.5 | 14 |
| 49 | Nuclear reprogramming by human embryonic stem cells. *Cell*, **2005**, 122, 653-4 | 56.2 | 13 |
| 48 | A sensitive multiplex assay for piRNA expression. *Biochemical and Biophysical Research Communications*, **2008**, 369, 1190-4 | 3.4 | 12 |
| 47 | Mechanism of imprinting on mouse distal chromosome 7. *Genetical Research*, **1998**, 72, 237-45 | 1.1 | 11 |
| 46 | The mechanisms of genomic imprinting. *Results and Problems in Cell Differentiation*, **1999**, 25, 91-118 | 1.4 | 11 |
| 45 | Breaking the germ line-soma barrier. *Nature Reviews Molecular Cell Biology*, **2016**, 17, 136 | 48.7 | 10 |
| 44 | What Can Stem Cell Models Tell Us About Human Germ Cell Biology?. *Current Topics in Developmental Biology*, **2018**, 129, 25-65 | 5.3 | 10 |
| 43 | Cellular reprogramming in pursuit of immortality. *Cell Stem Cell*, **2012**, 11, 748-50 | 18 | 10 |
| 42 | Specification and epigenomic resetting of the pig germline exhibit conservation with the human lineage. *Cell Reports*, **2021**, 34, 108735 | 10.6 | 10 |
| 41 | The imprinted gene Peg3 is not essential for tumor necrosis factor alpha signaling. *Laboratory Investigation*, **2000**, 80, 1509-11 | 5.9 | 9 |
| 40 | Testing the role of SOX15 in human primordial germ cell fate. *Wellcome Open Research*, **2019**, 4, 122 | 4.8 | 9 |
| 39 | Activin A and BMP4 Signaling Expands Potency of Mouse Embryonic Stem Cells in Serum-Free Media. *Stem Cell Reports*, **2020**, 14, 241-255 | 8 | 8 |
| 38 | An intronic DNA sequence within the mouse Neuronatin gene exhibits biochemical characteristics of an ICR and acts as a transcriptional activator in Drosophila. *Mechanisms of Development*, **2008**, 125, 963-73 | 1.7 | 8 |
| 37 | Manipulations of genetic constitution by nuclear transplantation. *Methods in Enzymology*, **1993**, 225, 732-44 | 1.7 | 7 |

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|---|---|---|---|
| 36 | Differentiation and gene regulation Programming, reprogramming and regeneration. *Current Opinion in Genetics and Development*, **2003**, 13, 445-447 | 4.9 | 6 |
| 35 | Testing the role of SOX15 in human primordial germ cell fate. *Wellcome Open Research*, **2019**, 4, 122 | 4.8 | 6 |
| 34 | Dedifferentiation of foetal CNS stem cells to mesendoderm-like cells through an EMT process. *PLoS ONE*, **2012**, 7, e30759 | 3.7 | 5 |
| 33 | DNMTs Play an Important Role in Maintaining the Pluripotency of Leukemia Inhibitory Factor-Dependent Embryonic Stem Cells. *Stem Cell Reports*, **2021**, 16, 582-596 | 8 | 5 |
| 32 | Branch-recombinant Gaussian processes for analysis of perturbations in biological time series. *Bioinformatics*, **2018**, 34, i1005-i1013 | 7.2 | 5 |
| 31 | Tracing the emergence of primordial germ cells from bilaminar disc rabbit embryos and pluripotent stem cells. *Cell Reports*, **2021**, 37, 109812 | 10.6 | 4 |
| 30 | A critical but divergent role of PRDM14 in human primordial germ cell fate revealed by inducible degrons | | 4 |
| 29 | Conserved features of non-primate bilaminar disc embryos and the germline. *Stem Cell Reports*, **2021**, 16, 1078-1092 | 8 | 4 |
| 28 | Perceiving signals, building networks, reprogramming germ cell fate. *International Journal of Developmental Biology*, **2013**, 57, 123-32 | 1.9 | 3 |
| 27 | Reversion of mouse postimplantation epiblast stem cells to a na�e pluripotent state by modulation of signalling pathways. *Methods in Molecular Biology*, **2013**, 1074, 15-29 | 1.4 | 3 |
| 26 | Blastocyst complementation using Prdm14-deficient rats enables efficient germline transmission and generation of functional mouse spermatids in rats. *Nature Communications*, **2021**, 12, 1328 | 17.4 | 3 |
| 25 | DNA (De)Methylation: The Passive Route to Na�ety?. *Trends in Genetics*, **2016**, 32, 592-595 | 8.5 | 2 |
| 24 | Differential Demethylation of Paternal and Maternal Genomes in the Preimplantation Mouse Embryo: Implications for Mammalian Development **2004**, 207-214 | | 2 |
| 23 | Bayesian inference of transcriptional branching identifies regulators of early germ cell development in humans | | 2 |
| 22 | Human Germline Development from Pluripotent Stem Cellsin vitro. *Journal of Mammalian Ova Research*, **2016**, 33, 79-87 | | 1 |
| 21 | Detection of CpG methylation patterns by affinity capture methods197-209 | | 1 |
| 20 | Transposable elements resistant to epigenetic resetting in the human germline are epigenetic hotspots for development and disease | | 1 |
| 19 | Specification and epigenetic resetting of the pig germline exhibit conservation with the human lineage | | 1 |

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| 18 | Tracing the Transitions from Pluripotency to Germ Cell Fate with CRISPR Screening | 1 |
| 17 | Lineage segregation, pluripotency and X-chromosome inactivation in the pig pre-gastrulation embryo | 1 |
| 16 | Imprinting and gene silencing in mice and Drosophila. *Novartis Foundation Symposium*, **1998**, 214, 233-44; discussion 244-50 | 1 |
| 15 | The unfolding body plan of primate embryos in culture. *Cell Research*, **2020**, 30, 103-104 | 24.7 |
| 14 | In retrospect: Thirty-five years of endless cell potential. *Nature*, **2016**, 535, 502-3 | 50.4 |
| 13 | Epigenetic Reprogramming of Somatic Nuclei via Cell Fusion **2014**, 11-19 | |
| 12 | Genomic Reprogramming **2014**, 453-463 | |
| 11 | Active DNA demethylation: the enigma starts in the zygote91-103 | |
| 10 | Epigenetic stability of human pluripotent stem cells118-133 | |
| 9 | MicroRNAs in embryonic stem cells163-178 | |
| 8 | Genomic Reprogramming **2013**, 393-398 | |
| 7 | Untangling the mysteries of maternal inheritance with polycomb. *EMBO Journal*, **2012**, 31, 2837-8 | 13 |
| 6 | Generation of single cell microRNA expression profile489-496 | |
| 5 | Genomic Reprogramming **2004**, 657-662 | |
| 4 | Genomic imprinting. *Advances in Developmental Biology and Biochemistry*, **2002**, 12, 233-264 | |
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