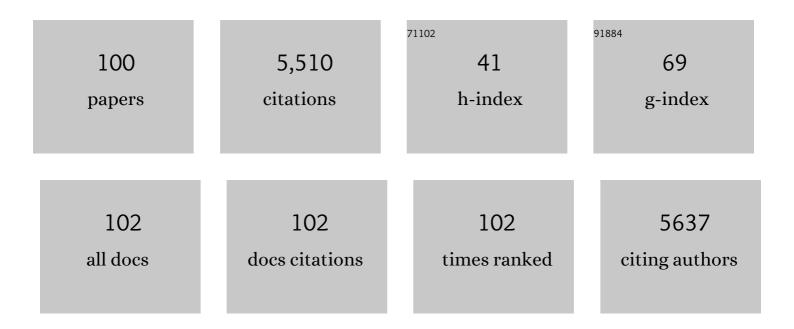
List of Publications by Year in descending order

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HENC-YU FAN

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | MAPK3/1 (ERK1/2) in Ovarian Granulosa Cells Are Essential for Female Fertility. Science, 2009, 324, 938-941. | 12.6 | 559 |
| 2 | Involvement of Mitogen-Activated Protein Kinase Cascade During Oocyte Maturation and Fertilization in Mammals1. Biology of Reproduction, 2004, 70, 535-547. | 2.7 | 277 |
| 3 | BTG4 is a meiotic cell cycle–coupled maternal-zygotic-transition licensing factor in oocytes. Nature Structural and Molecular Biology, 2016, 23, 387-394. | 8.2 | 209 |
| 4 | High salt primes a specific activation state of macrophages, M(Na). Cell Research, 2015, 25, 893-910. | 12.0 | 189 |
| 5 | Targeted Disruption of Pten in Ovarian Granulosa Cells Enhances Ovulation and Extends the Life Span of Luteal Cells. Molecular Endocrinology, 2008, 22, 2128-2140. | 3.7 | 162 |
| 6 | Mechanisms Regulating Oocyte Meiotic Resumption: Roles of Mitogen-Activated Protein Kinase. Molecular Endocrinology, 2007, 21, 2037-2055. | 3.7 | 161 |
| 7 | β-Catenin (CTNNB1) Promotes Preovulatory Follicular Development but Represses LH-Mediated Ovulation and Luteinization. Molecular Endocrinology, 2010, 24, 1529-1542. | 3.7 | 152 |
| 8 | CCAAT/Enhancer-Binding Proteins (C/EBP)-α and -β Are Essential for Ovulation, Luteinization, and the Expression of Key Target Genes. Molecular Endocrinology, 2011, 25, 253-268. | 3.7 | 135 |
| 9 | FSH and FOXO1 Regulate Genes in the Sterol/Steroid and Lipid Biosynthetic Pathways in Granulosa Cells. Molecular Endocrinology, 2009, 23, 649-661. | 3.7 | 134 |
| 10 | YAP Promotes Ovarian Cancer Cell Tumorigenesis and Is Indicative of a Poor Prognosis for Ovarian Cancer Patients. PLoS ONE, 2014, 9, e91770. | 2.5 | 130 |
| 11 | Selective expression of <i>KrasG12D</i> in granulosa cells of the mouse ovary causes defects in follicle development and ovulation. Development (Cambridge), 2008, 135, 2127-2137. | 2.5 | 129 |
| 12 | A story of birth and death: mRNA translation and clearance at the onset of maternal-to-zygotic transition in mammalsâ€. Biology of Reproduction, 2019, 101, 579-590. | 2.7 | 124 |
| 13 | Oocyte-expressed yes-associated protein is a key activator of the early zygotic genome in mouse. Cell Research, 2016, 26, 275-287. | 12.0 | 108 |
| 14 | Mitoguardin Regulates Mitochondrial Fusion through MitoPLD and Is Required for Neuronal Homeostasis. Molecular Cell, 2016, 61, 111-124. | 9.7 | 104 |
| 15 | CRL4 Complex Regulates Mammalian Oocyte Survival and Reprogramming by Activation of TET Proteins. Science, 2013, 342, 1518-1521. | 12.6 | 100 |
| 16 | <scp>CNOT</scp> 6L couples the selective degradation of maternal transcripts to meiotic cell cycle progression in mouse oocyte. EMBO Journal, 2018, 37, . | 7.8 | 97 |
| 17 | Dynamics and clinical relevance of maternal mRNA clearance during the oocyte-to-embryo transition in humans. Nature Communications, 2020, 11, 4917. | 12.8 | 94 |
| 18 | CRL4VprBP E3 Ligase Promotes Monoubiquitylation and Chromatin Binding of TET Dioxygenases. Molecular Cell, 2015, 57, 247-260. | 9.7 | 90 |

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 19 | CFP1 Regulates Histone H3K4 Trimethylation and Developmental Potential in Mouse Oocytes. Cell Reports, 2017, 20, 1161-1172. | 6.4 | 89 |
| 20 | A Voltage-Gated Calcium Channel Regulates Lysosomal Fusion with Endosomes and Autophagosomes and Is Required for Neuronal Homeostasis. PLoS Biology, 2015, 13, e1002103. | 5.6 | 85 |
| 21 | High-efficiency and heritable gene targeting in mouse by transcription activator-like effector nucleases. Nucleic Acids Research, 2013, 41, e120-e120. | 14.5 | 81 |
| 22 | MAPK cascade couples maternal mRNA translation and degradation to meiotic cell cycle progression in mouse oocyte. Development (Cambridge), 2017, 144, 452-463. | 2.5 | 78 |
| 23 | Cell Type–Specific Targeted Mutations of <i>Kras</i> and <i>Pten</i> Document Proliferation Arrest in Granulosa Cells versus Oncogenic Insult to Ovarian Surface Epithelial Cells. Cancer Research, 2009, 69, 6463-6472. | 0.9 | 76 |
| 24 | Characterization of zygotic genome activation-dependent maternal mRNA clearance in mouse. Nucleic Acids Research, 2020, 48, 879-894. | 14.5 | 75 |
| 25 | ZAR1 and ZAR2 are required for oocyte meiotic maturation by regulating the maternal transcriptome and mRNA translational activation. Nucleic Acids Research, 2019, 47, 11387-11402. | 14.5 | 69 |
| 26 | YAP/TEAD Co-Activator Regulated Pluripotency and Chemoresistance in Ovarian Cancer Initiated Cells. PLoS ONE, 2014, 9, e109575. | 2.5 | 68 |
| 27 | Ubiquitin E3 Ligase CRL4CDT2/DCAF2 as a Potential Chemotherapeutic Target for Ovarian Surface Epithelial Cancer. Journal of Biological Chemistry, 2013, 288, 29680-29691. | 3.4 | 67 |
| 28 | Protein Kinase C and Mitogen-Activated Protein Kinase Cascade in Mouse Cumulus Cells: Cross Talk and Effect on Meiotic Resumption of Oocyte1. Biology of Reproduction, 2004, 70, 1178-1187. | 2.7 | 63 |
| 29 | Homozygous Mutations in BTG4 Cause Zygotic Cleavage Failure and Female Infertility. American Journal of Human Genetics, 2020, 107, 24-33. | 6.2 | 63 |
| 30 | CRL4–DCAF1 ubiquitin E3 ligase directs protein phosphatase 2A degradation to control oocyte meiotic maturation. Nature Communications, 2015, 6, 8017. | 12.8 | 62 |
| 31 | Involvement of Calcium/Calmodulin-Dependent Protein Kinase II (CaMKII) in Meiotic Maturation and Activation of Pig Oocytes1. Biology of Reproduction, 2003, 69, 1552-1564. | 2.7 | 60 |
| 32 | RNAâ€Binding Protein IGF2BP2/IMP2 is a Critical Maternal Activator in Early Zygotic Genome Activation. Advanced Science, 2019, 6, 1900295. | 11.2 | 57 |
| 33 | Ultrasensitive Ribo-seq reveals translational landscapes during mammalian oocyte-to-embryo transition and pre-implantation development. Nature Cell Biology, 2022, 24, 968-980. | 10.3 | 57 |
| 34 | A combinatorial code for mRNA 3′-UTR-mediated translational control in the mouse oocyte. Nucleic Acids Research, 2019, 47, 328-340. | 14.5 | 54 |
| 35 | Consequences of RAS and MAPK activation in the ovary: The good, the bad and the ugly. Molecular and Cellular Endocrinology, 2012, 356, 74-79. | 3.2 | 53 |
| 36 | CFP1 coordinates histone H3 lysine-4 trimethylation and meiotic cell cycle progression in mouse oocytes. Nature Communications, 2018, 9, 3477. | 12.8 | 51 |

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Characterization of Ribosomal S6 Protein Kinase p90rsk During Meiotic Maturation and Fertilization in Pig Oocytes: Mitogen-Activated Protein Kinase-Associated Activation and Localization1. Biology of Reproduction, 2003, 68, 968-977. | 2.7 | 50 |
| 38 | Selective Smad4 Knockout in Ovarian Preovulatory Follicles Results in Multiple Defects in Ovulation. Molecular Endocrinology, 2013, 27, 966-978. | 3.7 | 50 |
| 39 | Translocation of the Classic Protein Kinase C Isoforms in Porcine Oocytes: Implications of Protein Kinase C Involvement in the Regulation of Nuclear Activity and Cortical Granule Exocytosis. Experimental Cell Research, 2002, 277, 183-191. | 2.6 | 45 |
| 40 | Metabolic remodelling during early mouse embryo development. Nature Metabolism, 2021, 3, 1372-1384. | 11.9 | 45 |
| 41 | Phosphoinositide 3-Kinase p110δMediates Estrogen- and FSH-Stimulated Ovarian Follicle Growth. Molecular Endocrinology, 2013, 27, 1468-1482. | 3.7 | 44 |
| 42 | Inhibitory effects of cAMP and protein kinase C on meiotic maturation and MAP kinase phosphorylation in porcine oocytes. Molecular Reproduction and Development, 2002, 63, 480-487. | 2.0 | 43 |
| 43 | Minireview: Physiological and Pathological Actions of RAS in the Ovary. Molecular Endocrinology, 2010, 24, 286-298. | 3.7 | 43 |
| 44 | The polycystic ovary syndrome-associated gene Yap1 is regulated by gonadotropins and sex steroid hormones in hyperandrogenism-induced oligo-ovulation in mouse. Molecular Human Reproduction, 2017, 23, 698-707. | 2.8 | 41 |
| 45 | Mammalian nucleolar protein DCAF13 is essential for ovarian follicle maintenance and oocyte growth by mediating rRNA processing. Cell Death and Differentiation, 2019, 26, 1251-1266. | 11.2 | 41 |
| 46 | PABPN1L mediates cytoplasmic mRNA decay as a placeholder during the maternalâ€ŧoâ€≢ygotic transition. EMBO Reports, 2020, 21, e49956. | 4.5 | 40 |
| 47 | <scp>DCAF</scp> 13 promotes pluripotency by negatively regulating <scp>SUV</scp> 39H1 stability during early embryonic development. EMBO Journal, 2018, 37, . | 7.8 | 39 |
| 48 | Regulation of Ubiquitin-Proteasome Pathway on Pig Oocyte Meiotic Maturation and Fertilization1. Biology of Reproduction, 2004, 71, 853-862. | 2.7 | 37 |
| 49 | Protein synthesis and degradation are critical to regulate germline stem cell homeostasis in <i>Drosophila</i> testes. Development (Cambridge), 2016, 143, 2930-45. | 2.5 | 37 |
| 50 | Maternal Sall4 Is Indispensable for Epigenetic Maturation of Mouse Oocytes. Journal of Biological Chemistry, 2017, 292, 1798-1807. | 3.4 | 37 |
| 51 | DNA Topoisomerase II Is Dispensable for Oocyte Meiotic Resumption but Is Essential for Meiotic Chromosome Condensation and Separation in Mice1. Biology of Reproduction, 2013, 89, 118. | 2.7 | 35 |
| 52 | ERK1/2 Activities Are Dispensable for Oocyte Growth but Are Required for Meiotic Maturation and Pronuclear Formation in Mouse. Journal of Genetics and Genomics, 2015, 42, 477-485. | 3.9 | 35 |
| 53 | Loss of oocyte Rps26 in mice arrests oocyte growth and causes premature ovarian failure. Cell Death and Disease, 2018, 9, 1144. | 6.3 | 34 |
| 54 | Laser microbeam-induced DNA damage inhibits cell division in fertilized eggs and early embryos. Cell Cycle, 2013, 12, 3336-3344. | 2.6 | 31 |

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|----|---|------|-----------|
| 55 | Characterization of poloâ€like kinaseâ€1 in rat oocytes and early embryos implies its functional roles in the regulation of meiotic maturation, fertilization, and cleavage. Molecular Reproduction and Development, 2003, 65, 318-329. | 2.0 | 28 |
| 56 | Mitoguardin-1 and -2 promote maturation and the developmental potential of mouse oocytes by maintaining mitochondrial dynamics and functions. Oncotarget, 2016, 7, 1155-1167. | 1.8 | 27 |
| 57 | Biallelic mutations in <i>MOS</i> cause female infertility characterized by human early embryonic arrest and fragmentation. EMBO Molecular Medicine, 2021, 13, e14887. | 6.9 | 27 |
| 58 | CBP-CITED4 is required for luteinizing hormone-triggered target gene expression during ovulation. Molecular Human Reproduction, 2014, 20, 850-860. | 2.8 | 26 |
| 59 | Histone acetyltransferase KAT8 is essential for mouse oocyte development by regulating ROS levels. Development (Cambridge), 2017, 144, 2165-2174. | 2.5 | 25 |
| 60 | The CRL4-DCAF13 ubiquitin E3 ligase supports oocyte meiotic resumption by targeting PTEN degradation. Cellular and Molecular Life Sciences, 2020, 77, 2181-2197. | 5.4 | 25 |
| 61 | Function and Regulation of Histone H3 Lysine-4 Methylation During Oocyte Meiosis and Maternal-to-Zygotic Transition. Frontiers in Cell and Developmental Biology, 2020, 8, 597498. | 3.7 | 24 |
| 62 | CRL4DCAF1 is required in activated oocytes for follicle maintenance and ovulation. Molecular Human Reproduction, 2015, 21, 195-205. | 2.8 | 21 |
| 63 | Evolutionarily-conserved MZIP2 is essential for crossover formation in mammalian meiosis. Communications Biology, 2018, 1, 147. | 4.4 | 21 |
| 64 | TOP2β Is Essential for Ovarian Follicles That Are Hypersensitive to Chemotherapeutic Drugs. Molecular Endocrinology, 2013, 27, 1678-1691. | 3.7 | 20 |
| 65 | NAT10-mediated <i>N</i> 4-acetylcytidine modification is required for meiosis entry and progression in male germ cells. Nucleic Acids Research, 2022, 50, 10896-10913. | 14.5 | 20 |
| 66 | CFP1-dependent histone H3K4 trimethylation in murine oocytes facilitates ovarian follicle recruitment and ovulation in a cell-nonautonomous manner. Cellular and Molecular Life Sciences, 2020, 77, 2997-3012. | 5.4 | 19 |
| 67 | Positive Feedback Stimulation of Ccnb1 and Mos mRNA Translation by MAPK Cascade During Mouse Oocyte Maturation. Frontiers in Cell and Developmental Biology, 2020, 8, 609430. | 3.7 | 19 |
| 68 | Oocyte meiosis-coupled poly(A) polymerase α phosphorylation and activation trigger maternal mRNA translation in mice. Nucleic Acids Research, 2021, 49, 5867-5880. | 14.5 | 18 |
| 69 | ERK/MAPK signaling is essential for intestinal development through Wnt pathway modulation. Development (Cambridge), 2020, 147, . | 2.5 | 17 |
| 70 | Roles of MAP kinase signaling pathway in oocyte meiosis. Science Bulletin, 2002, 47, 1157-1162. | 1.7 | 16 |
| 71 | Maternal DCAF2 is crucial for maintenance of genome stability during the first cell cycle in mice. Journal of Cell Science, 2017, 130, 3297-3307. | 2.0 | 16 |
| 72 | Development and characterization of a novel long-acting recombinant follicle stimulating hormone agonist by fusing Fc to an FSH-β subunit. Human Reproduction, 2016, 31, 169-182. | 0.9 | 15 |

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|----|---|------|-----------|
| 73 | Role of CxxC-finger protein 1 in establishing mouse oocyte epigenetic landscapes. Nucleic Acids Research, 2021, 49, 2569-2582. | 14.5 | 15 |
| 74 | Mitochondrial Function Regulated by Mitoguardin-1/2 Is Crucial for Ovarian Endocrine Functions and Ovulation. Endocrinology, 2017, 158, 3988-3999. | 2.8 | 14 |
| 75 | Functional coupling of Tmem74 and HCN1 channels regulates anxiety-like behavior in BLA neurons. Molecular Psychiatry, 2019, 24, 1461-1477. | 7.9 | 14 |
| 76 | Revisiting poly(A)â€binding proteins: Multifaceted regulators during gametogenesis and early embryogenesis. BioEssays, 2021, 43, e2000335. | 2.5 | 14 |
| 77 | CxxC finger protein 1-mediated histone H3 lysine-4 trimethylation is essential for proper meiotic crossover formation in mice. Development (Cambridge), 2020, 147, . | 2.5 | 13 |
| 78 | Nuclear poly(A) binding protein 1 (PABPN1) mediates zygotic genome activation-dependent maternal mRNA clearance during mouse early embryonic development. Nucleic Acids Research, 2022, 50, 458-472. | 14.5 | 13 |
| 79 | TET1 inhibits cell proliferation by inducing RASSF5 expression. Oncotarget, 2017, 8, 86395-86409. | 1.8 | 12 |
| 80 | Biallelic variants in <i>ZFP36L2</i> cause female infertility characterised by recurrent preimplantation embryo arrest. Journal of Medical Genetics, 2022, 59, 850-857. | 3.2 | 12 |
| 81 | Five questions toward mRNA degradation in oocytes and preimplantation embryos: when, who, to whom, how, and why?. Biology of Reproduction, 2022, 107, 62-75. | 2.7 | 12 |
| 82 | Maternal DCAF13 Regulates Chromatin Tightness to Contribute to Embryonic Development. Scientific Reports, 2019, 9, 6278. | 3.3 | 11 |
| 83 | The CNOT4 Subunit of the CCR4â€NOT Complex is Involved in mRNA Degradation, Efficient DNA Damage Repair, and XY Chromosome Crossover during Male Germ Cell Meiosis. Advanced Science, 2021, 8, 2003636. | 11.2 | 11 |
| 84 | CNOT6/6L-mediated mRNA degradation in ovarian granulosa cells is a key mechanism of gonadotropin-triggered follicle development. Cell Reports, 2021, 37, 110007. | 6.4 | 11 |
| 85 | Oocyte Meiotic Maturation. , 2019, , 181-203. | | 10 |
| 86 | Lysophosphatidic acid improves oocyte quality during IVM by activating the ERK1/2 pathway in cumulus cells and oocytes. Molecular Human Reproduction, 2021, 27, . | 2.8 | 10 |
| 87 | In Vitro Maturation and Fertilization of Pig Oocytes. , 2004, 253, 227-234. | | 9 |
| 88 | CRL4DCAF2 is required for mature T-cell expansion via Aurora B-regulated proteasome activity. Journal of Autoimmunity, 2019, 96, 74-85. | 6.5 | 9 |
| 89 | Dynamic mRNA degradome analyses indicate a role of histone H3K4 trimethylation in association with meiosis-coupled mRNA decay in oocyte aging. Nature Communications, 2022, 13, . | 12.8 | 9 |
| 90 | Revisiting ZAR proteins: the understudied regulator of female fertility and beyond. Cellular and Molecular Life Sciences, 2022, 79, 92. | 5.4 | 7 |

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|-----|---|------|-----------|
| 91 | USP16-mediated histone H2A lysine-119 deubiquitination during oocyte maturation is a prerequisite for zygotic genome activation. Nucleic Acids Research, 2022, 50, 5599-5616. | 14.5 | 7 |
| 92 | HMCES safeguards genome integrity and long-term self-renewal of hematopoietic stem cells during stress responses. Leukemia, 2022, 36, 1123-1131. | 7.2 | 5 |
| 93 | Biallelic variants in <i>MOS</i> cause large polar body in oocyte and human female infertility. Human Reproduction, 2022, 37, 1932-1944. | 0.9 | 5 |
| 94 | Roles of protein kinase C in oocyte meiotic maturation and fertilization*. Progress in Natural Science: Materials International, 2003, 13, 401-406. | 4.4 | 3 |
| 95 | The DDB1-DCAF2 complex is essential for B cell development because it regulates cell cycle progression. Cellular and Molecular Immunology, 2021, 18, 758-760. | 10.5 | 2 |
| 96 | Selective inhibition of Tmem74 expression in BLA pyramidal neurons. Molecular Psychiatry, 2019, 24, 1399-1399. | 7.9 | 1 |
| 97 | Selective Expression of Constitutively Active KrasG12D in Granulosa Cells of the Mouse Ovary Causes Defects in Follicle Development and Ovulation Biology of Reproduction, 2008, 78, 127-127. | 2.7 | 1 |
| 98 | CCAAT/Enhancer Binding Protein (C/EBP)-alpha and -beta Are Essential for Ovulation and Luteinization by Regulating the Expression of Novel Target Genes Biology of Reproduction, 2010, 83, 151-151. | 2.7 | 1 |
| 99 | Regulation of Cytoskeletal Functions in Pig Oocytes. Microscopy and Microanalysis, 2003, 9, 1200-1201. | 0.4 | 0 |
| 100 | Function and interaction of maturation-promoting factor and mitogen-activated protein kinase during meiotic maturation and fertilization of oocyte*. Progress in Natural Science: Materials International, 2004, 14, 562-567. | 4.4 | 0 |