

# Robert B Gilchrist

## List of Publications by Year in Descending Order

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**Version:** 2024-04-27

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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.

128  
papers

7,396  
citations

48  
h-index

83  
g-index

133  
ext. papers

8,565  
ext. citations

4.7  
avg, IF

6.17  
L-index

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 128 | Effect of cumulin and super-GDF9 in standard and biphasic mouse IVM.. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2022</b> , 39, 127   | 3.4  | 0         |
| 127 | Multispectral autofluorescence characteristics of reproductive aging in old and young mouse oocytes.. <i>Biogerontology</i> , <b>2022</b> , 1  | 4.5  | 0         |
| 126 | Pathogenesis of Reproductive and Metabolic PCOS Traits in a Mouse Model. <i>Journal of the Endocrine Society</i> , <b>2021</b> , 5, bvab060  | 0.4  | 1         |
| 125 | Perspectives on the development and future of oocyte IVM in clinical practice. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2021</b> , 38, 1265-1280  | 3.4  | 13        |
| 124 | Metabolic co-dependence of the oocyte and cumulus cells: essential role in determining oocyte developmental competence. <i>Human Reproduction Update</i> , <b>2021</b> , 27, 27-47   | 15.8 | 30        |
| 123 | Neurokinin 3 Receptor Antagonism Ameliorates Key Metabolic Features in a Hyperandrogenic PCOS Mouse Model. <i>Endocrinology</i> , <b>2021</b> , 162,   | 4.8  | 4         |
| 122 | Exploratory analysis of serum concentrations of oocyte biomarkers growth differentiation factor 9 and bone morphogenetic protein 15 in ovulatory women across the menstrual cycle. <i>Fertility and Sterility</i> , <b>2021</b> , 116, 546-557 | 4.8  | 1         |
| 121 | Approaches to oocyte meiotic arrest in vitro and impact on oocyte developmental competence. <i>Biology of Reproduction</i> , <b>2021</b> ,   | 3.9  | 1         |
| 120 | NAD Repletion Rescues Female Fertility during Reproductive Aging. <i>Cell Reports</i> , <b>2020</b> , 30, 1670-1681.e710.6   | 10.6 | 74        |
| 119 | A variant of human growth differentiation factor-9 that improves oocyte developmental competence. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 7981-7991  | 5.4  | 6         |
| 118 | Androgen signaling pathways driving reproductive and metabolic phenotypes in a PCOS mouse model. <i>Journal of Endocrinology</i> , <b>2020</b> , 245, 381-395  | 4.7  | 14        |
| 117 | Capacitation IVM improves cumulus function and oocyte quality in minimally stimulated mice. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2020</b> , 37, 77-88   | 3.4  | 13        |
| 116 | Live births after oocyte in vitro maturation with a prematuration step in women with polycystic ovary syndrome. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2020</b> , 37, 347-357   | 3.4  | 26        |
| 115 | Defining the impact of dietary macronutrient balance on PCOS traits. <i>Nature Communications</i> , <b>2020</b> , 11, 5262   | 17.4 | 16        |
| 114 | Prospects of Rescuing Young Eggs for Oncofertility. <i>Trends in Endocrinology and Metabolism</i> , <b>2020</b> , 31, 708-711  | 8.8  | 3         |
| 113 | In-vitro maturation of oocytes versus conventional IVF in women with infertility and a high antral follicle count: a randomized non-inferiority controlled trial. <i>Human Reproduction</i> , <b>2020</b> , 35, 2537-2547                      | 5.7  | 16        |
| 112 | Androgen Action in Adipose Tissue and the Brain are Key Mediators in the Development of PCOS Traits in a Mouse Model. <i>Endocrinology</i> , <b>2020</b> , 161,  | 4.8  | 15        |

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| 111 | In vitro maturation (IVM) versus in vitro fertilization (IVF) in women with high antral follicle count (AFC): a randomized controlled trial (NCT03405701). <i>Fertility and Sterility</i> , <b>2019</b> , 112, e435-e436               | 4.8  | 1   |
| 110 | Serum Concentrations of Oocyte-Secreted Factors BMP15 and GDF9 During IVF and in Women With Reproductive Pathologies. <i>Endocrinology</i> , <b>2019</b> , 160, 2298-2313  | 4.8  | 8   |
| 109 | Cumulin and FSH Cooperate to Regulate Inhibin B and Activin B Production by Human Granulosa-Lutein Cells In Vitro. <i>Endocrinology</i> , <b>2019</b> , 160, 853-862   | 4.8  | 10  |
| 108 | The Place of In Vitro Maturation in Assisted Reproductive Technology. <i>Fertility &amp; Reproduction</i> , <b>2019</b> , 01, 11-15  | 0.7  | 10  |
| 107 | Non-canonical cyclic AMP SMAD1/5/8 signalling in human granulosa cells. <i>Molecular and Cellular Endocrinology</i> , <b>2019</b> , 490, 37-46   | 4.4  | 6   |
| 106 | A Hyperandrogenic Environment Causes Intrinsic Defects That Are Detrimental to Follicular Dynamics in a PCOS Mouse Model. <i>Endocrinology</i> , <b>2019</b> , 160, 699-715  | 4.8  | 14  |
| 105 | Biphasic in vitro maturation (CAPA-IVM) specifically improves the developmental capacity of oocytes from small antral follicles. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2019</b> , 36, 2135-2144                    | 3.4  | 35  |
| 104 | Participation of the adenosine salvage pathway and cyclic AMP modulation in oocyte energy metabolism. <i>Scientific Reports</i> , <b>2019</b> , 9, 18395   | 4.9  | 9   |
| 103 | Follicle Selection in Mammalian Ovaries <b>2019</b> , 3-21   |      | 5   |
| 102 | In-vitro regulation of primordial follicle activation: challenges for fertility preservation strategies. <i>Reproductive BioMedicine Online</i> , <b>2018</b> , 36, 491-499  | 4    | 22  |
| 101 | Effect of pre-in vitro maturation with cAMP modulators on the acquisition of oocyte developmental competence in cattle. <i>Journal of Reproduction and Development</i> , <b>2018</b> , 64, 233-241                                     | 2.1  | 22  |
| 100 | The epidermal growth factor network: role in oocyte growth, maturation and developmental competence. <i>Human Reproduction Update</i> , <b>2018</b> , 24, 1-14   | 15.8 | 98  |
| 99  | Follicular guidance for oocyte developmental competence. <i>Animal Reproduction</i> , <b>2018</b> , 15, 721-726  | 1.7  | 2   |
| 98  | Effectiveness and safety of in vitro maturation of oocytes versus in vitro fertilisation in women with high antral follicle count: study protocol for a randomised controlled trial. <i>BMJ Open</i> , <b>2018</b> , 8, e023413        | 3    | 11  |
| 97  | New Perspectives on the Pathogenesis of PCOS: Neuroendocrine Origins. <i>Trends in Endocrinology and Metabolism</i> , <b>2018</b> , 29, 841-852  | 8.8  | 51  |
| 96  | Niclosamide reduces glucagon sensitivity via hepatic PKA inhibition in obese mice: Implications for glucose metabolism improvements in type 2 diabetes. <i>Scientific Reports</i> , <b>2017</b> , 7, 40159                             | 4.9  | 17  |
| 95  | The safety and efficacy of controlled ovarian hyperstimulation for fertility preservation in women with early breast cancer: a systematic review. <i>Human Reproduction</i> , <b>2017</b> , 32, 1033-1045                              | 5.7  | 79  |
| 94  | Neuroendocrine androgen action is a key extraovarian mediator in the development of polycystic ovary syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E3334-E3343 | 11.5 | 103 |

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| 93 | Quantifying the cellular NAD <sup>+</sup> metabolome using a tandem liquid chromatography mass spectrometry approach. <i>Metabolomics</i> , <b>2017</b> , 14, 15   | 4.7  | 29  |
| 92 | Transcriptomic signature of the follicular somatic compartment surrounding an oocyte with high developmental competence. <i>Scientific Reports</i> , <b>2017</b> , 7, 6815   | 4.9  | 13  |
| 91 | A sensitive method for the separation and quantification of low-level adenine nucleotides using porous graphitic carbon-based liquid chromatography and tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2017</b> , 1061-1062, 445-451 | 3.2  | 7   |
| 90 | Failure to launch: aberrant cumulus gene expression during oocyte in vitro maturation. <i>Reproduction</i> , <b>2017</b> , 153, R109-R120  | 3.8  | 29  |
| 89 | BMP15 Mutations Associated With Primary Ovarian Insufficiency Reduce Expression, Activity, or Synergy With GDF9. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2017</b> , 102, 1009-1019  | 5.6  | 20  |
| 88 | Improving fertility preservation for girls and women by coupling oocyte in vitro maturation with existing strategies. <i>Women's Health</i> , <b>2016</b> , 12, 275-8  | 3    | 17  |
| 87 | Random start or emergency IVF/in vitro maturation: a new rapid approach to fertility preservation. <i>Women's Health</i> , <b>2016</b> , 12, 339-49  | 3    | 12  |
| 86 | Signalling pathways involved in the synergistic effects of human growth differentiation factor 9 and bone morphogenetic protein 15. <i>Reproduction, Fertility and Development</i> , <b>2016</b> , 28, 491-8   | 1.8  | 19  |
| 85 | Extending prematuration with cAMP modulators enhances the cumulus contribution to oocyte antioxidant defence and oocyte quality via gap junctions. <i>Human Reproduction</i> , <b>2016</b> , 31, 810-21  | 5.7  | 54  |
| 84 | Are human oocytes from stem cells next?. <i>Nature Biotechnology</i> , <b>2016</b> , 34, 1247-1248   | 44.5 | 9   |
| 83 | Bidirectional communication between cumulus cells and the oocyte: Old hands and new players?. <i>Theriogenology</i> , <b>2016</b> , 86, 62-8   | 2.8  | 110 |
| 82 | The definition of IVM is clear-variations need defining. <i>Human Reproduction</i> , <b>2016</b> , 31, 2411-2415   | 5.7  | 51  |
| 81 | Oocyte maturation and quality: role of cyclic nucleotides. <i>Reproduction</i> , <b>2016</b> , 152, R143-57  | 3.8  | 100 |
| 80 | Redox and anti-oxidant state within cattle oocytes following in vitro maturation with bone morphogenetic protein 15 and follicle stimulating hormone. <i>Molecular Reproduction and Development</i> , <b>2015</b> , 82, 281-94   | 2.6  | 33  |
| 79 | Chromosome constitution of human embryos generated after in vitro maturation including 3-isobutyl-1-methylxanthine in the oocyte collection medium. <i>Human Reproduction</i> , <b>2015</b> , 30, 653-63   | 5.7  | 30  |
| 78 | Oocyte expression, secretion and somatic cell interaction of mouse bone morphogenetic protein 15 during the peri-ovulatory period. <i>Reproduction, Fertility and Development</i> , <b>2015</b> , 27, 801-11   | 1.8  | 19  |
| 77 | Oocyte induction of EGF responsiveness in somatic cells is associated with the acquisition of porcine oocyte developmental competence. <i>Endocrinology</i> , <b>2015</b> , 156, 2299-312  | 4.8  | 35  |
| 76 | Fibroblast growth factor 17 and bone morphogenetic protein 15 enhance cumulus expansion and improve quality of in vitro-produced embryos in cattle. <i>Theriogenology</i> , <b>2015</b> , 84, 390-8  | 2.8  | 27  |

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| 75 | Hemoglobin: a gas transport molecule that is hormonally regulated in the ovarian follicle in mice and humans. <i>Biology of Reproduction</i> , <b>2015</b> , 92, 26  | 3.9  | 20 |
| 74 | Cumulin, an Oocyte-secreted Heterodimer of the Transforming Growth Factor- $\beta$ Family, Is a Potent Activator of Granulosa Cells and Improves Oocyte Quality. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 24007-20      | 5.4  | 84 |
| 73 | Reevaluation and evolution of the simulated physiological oocyte maturation system. <i>Theriogenology</i> , <b>2015</b> , 84, 656-7  | 2.8  | 23 |
| 72 | Modifications of human growth differentiation factor 9 to improve the generation of embryos from low competence oocytes. <i>Molecular Endocrinology</i> , <b>2015</b> , 29, 40-52  |      | 11 |
| 71 | Promotion of EGF receptor signaling improves the quality of low developmental competence oocytes. <i>Developmental Biology</i> , <b>2015</b> , 403, 139-49   | 3.1  | 41 |
| 70 | Aberrant GDF9 expression and activation are associated with common human ovarian disorders. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2014</b> , 99, E615-24  | 5.6  | 21 |
| 69 | Amphiregulin co-operates with bone morphogenetic protein 15 to increase bovine oocyte developmental competence: effects on gap junction-mediated metabolite supply. <i>Molecular Human Reproduction</i> , <b>2014</b> , 20, 499-513        | 4.4  | 48 |
| 68 | Pre-maturation with cAMP modulators in conjunction with EGF-like peptides during in vitro maturation enhances mouse oocyte developmental competence. <i>Molecular Reproduction and Development</i> , <b>2014</b> , 81, 422-35              | 2.6  | 48 |
| 67 | Prematuration with cyclic adenosine monophosphate modulators alters cumulus cell and oocyte metabolism and enhances developmental competence of in vitro-matured mouse oocytes. <i>Biology of Reproduction</i> , <b>2014</b> , 91, 47      | 3.9  | 52 |
| 66 | Activation of 5Adenosine monophosphate-activated protein kinase blocks cumulus cell expansion through inhibition of protein synthesis during in vitro maturation in Swine. <i>Biology of Reproduction</i> , <b>2014</b> , 91, 51           | 3.9  | 14 |
| 65 | Bone morphogenetic protein 15 in the pro-mature complex form enhances bovine oocyte developmental competence. <i>PLoS ONE</i> , <b>2014</b> , 9, e103563   | 3.7  | 28 |
| 64 | Effect of epidermal growth factor-like peptides on the metabolism of in vitro- matured mouse oocytes and cumulus cells. <i>Biology of Reproduction</i> , <b>2014</b> , 90, 49  | 3.9  | 28 |
| 63 | The effect of peri-conception hyperglycaemia and the involvement of the hexosamine biosynthesis pathway in mediating oocyte and embryo developmental competence. <i>Molecular Reproduction and Development</i> , <b>2014</b> , 81, 391-408 | 2.6  | 10 |
| 62 | Hyperglycaemic conditions perturb mouse oocyte in vitro developmental competence via beta-O-linked glycosylation of heat shock protein 90. <i>Human Reproduction</i> , <b>2014</b> , 29, 1292-303  | 5.7  | 18 |
| 61 | Regulation of sheep oocyte maturation using cAMP modulators. <i>Theriogenology</i> , <b>2013</b> , 79, 142-8   | 2.8  | 55 |
| 60 | Somatic guidance for the oocyte. <i>Developmental Cell</i> , <b>2013</b> , 27, 603-5   | 10.2 | 5  |
| 59 | Heparin and cAMP modulators interact during pre-in vitro maturation to affect mouse and human oocyte meiosis and developmental competence. <i>Human Reproduction</i> , <b>2013</b> , 28, 1536-45   | 5.7  | 58 |
| 58 | Pioneering contributions by Robert Edwards to oocyte in vitro maturation (IVM). <i>Molecular Human Reproduction</i> , <b>2013</b> , 19, 794-8  | 4.4  | 4  |

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| 57 | Mode of oocyte maturation affects EGF-like peptide function and oocyte competence. <i>Molecular Human Reproduction</i> , <b>2013</b> , 19, 500-9  | 4.4  | 41  |
| 56 | Oocyte-Secreted Factors in Domestic Animals <b>2013</b> , 55-70   |      |     |
| 55 | Bone morphogenetic protein 15 and fibroblast growth factor 10 enhance cumulus expansion, glucose uptake, and expression of genes in the ovulatory cascade during in vitro maturation of bovine cumulus-oocyte complexes. <i>Reproduction</i> , <b>2013</b> , 146, 27-35 | 3.8  | 53  |
| 54 | Growth differentiation factor 9:bone morphogenetic protein 15 (GDF9:BMP15) synergism and protein heterodimerization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, E2257                                  | 11.5 | 17  |
| 53 | Heparan sulfate proteoglycans regulate responses to oocyte paracrine signals in ovarian follicle morphogenesis. <i>Endocrinology</i> , <b>2012</b> , 153, 4544-55   | 4.8  | 44  |
| 52 | TGF- $\beta$ mediates proinflammatory seminal fluid signaling in human cervical epithelial cells. <i>Journal of Immunology</i> , <b>2012</b> , 189, 1024-35   | 5.3  | 125 |
| 51 | Activation of latent human GDF9 by a single residue change (Gly 391 Arg) in the mature domain. <i>Endocrinology</i> , <b>2012</b> , 153, 1301-10  | 4.8  | 33  |
| 50 | Metabolic differences in bovine cumulus-oocyte complexes matured in vitro in the presence or absence of follicle-stimulating hormone and bone morphogenetic protein 15. <i>Biology of Reproduction</i> , <b>2012</b> , 87, 87   | 3.9  | 28  |
| 49 | Signalling pathways mediating specific synergistic interactions between GDF9 and BMP15. <i>Molecular Human Reproduction</i> , <b>2012</b> , 18, 121-8   | 4.4  | 62  |
| 48 | Recent insights into oocyte-follicle cell interactions provide opportunities for the development of new approaches to in vitro maturation. <i>Reproduction, Fertility and Development</i> , <b>2011</b> , 23, 23-31   | 1.8  | 167 |
| 47 | Temporal effects of exogenous oocyte-secreted factors on bovine oocyte developmental competence during IVM. <i>Reproduction, Fertility and Development</i> , <b>2011</b> , 23, 576-84   | 1.8  | 39  |
| 46 | IVM media are designed specifically to support immature cumulus-oocyte complexes not denuded oocytes that have failed to respond to hyperstimulation. <i>Fertility and Sterility</i> , <b>2011</b> , 96, e141; author reply e142  | 4.8  | 7   |
| 45 | Differences in the participation of TGF $\beta$ superfamily signalling pathways mediating porcine and murine cumulus cell expansion. <i>Reproduction</i> , <b>2011</b> , 142, 647-57  | 3.8  | 29  |
| 44 | The promise of in vitro maturation in assisted reproduction and fertility preservation. <i>Seminars in Reproductive Medicine</i> , <b>2011</b> , 29, 24-37  | 1.4  | 119 |
| 43 | Simulated physiological oocyte maturation (SPOM): a novel in vitro maturation system that substantially improves embryo yield and pregnancy outcomes. <i>Human Reproduction</i> , <b>2010</b> , 25, 2999-3011   | 5.7  | 197 |
| 42 | The pivotal role of glucose metabolism in determining oocyte developmental competence. <i>Reproduction</i> , <b>2010</b> , 139, 685-95  | 3.8  | 293 |
| 41 | Growth differentiation factor 9 signaling requires ERK1/2 activity in mouse granulosa and cumulus cells. <i>Journal of Cell Science</i> , <b>2010</b> , 123, 3166-76  | 5.3  | 55  |
| 40 | Extra-ovarian expression and activity of growth differentiation factor 9. <i>Journal of Endocrinology</i> , <b>2009</b> , 202, 419-30   | 4.7  | 14  |

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| 39 | Disruption of bidirectional oocyte-cumulus paracrine signaling during in vitro maturation reduces subsequent mouse oocyte developmental competence. <i>Biology of Reproduction</i> , <b>2009</b> , 80, 1072-80                              | 3.9  | 42  |
| 38 | Characterization of novel phosphodiesterases in the bovine ovarian follicle. <i>Biology of Reproduction</i> , <b>2009</b> , 81, 415-25  | 3.9  | 67  |
| 37 | Growth differentiation factor 9 is a germ cell regulator of Sertoli cell function. <i>Endocrinology</i> , <b>2009</b> , 150, 2481-90  | 4.8  | 68  |
| 36 | Regulation of gap junctions in porcine cumulus-oocyte complexes: contributions of granulosa cell contact, gonadotropins, and lipid rafts. <i>Molecular Endocrinology</i> , <b>2009</b> , 23, 700-10   |      | 74  |
| 35 | Oocyte-secreted factors: regulators of cumulus cell function and oocyte quality. <i>Human Reproduction Update</i> , <b>2008</b> , 14, 159-77  | 15.8 | 620 |
| 34 | Increased gonadotrophin stimulation does not improve IVF outcomes in patients with predicted poor ovarian reserve. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2008</b> , 25, 515-21  | 3.4  | 57  |
| 33 | Exogenous growth differentiation factor 9 in oocyte maturation media enhances subsequent embryo development and fetal viability in mice. <i>Human Reproduction</i> , <b>2008</b> , 23, 67-73  | 5.7  | 113 |
| 32 | Anti-Müllerian hormone as a predictor of IVF outcome. <i>Reproductive BioMedicine Online</i> , <b>2007</b> , 14, 602-10   | 4    | 137 |
| 31 | Adenosine 5' monophosphate kinase-activated protein kinase (PRKA) activators delay meiotic resumption in porcine oocytes. <i>Biology of Reproduction</i> , <b>2007</b> , 76, 589-97   | 3.9  | 52  |
| 30 | Oocyte maturation: emerging concepts and technologies to improve developmental potential in vitro. <i>Theriogenology</i> , <b>2007</b> , 67, 6-15   | 2.8  | 230 |
| 29 | Effects of ovarian stimulation, with and without human chorionic gonadotrophin, on oocyte meiotic and developmental competence in the marmoset monkey ( <i>Callithrix jacchus</i> ). <i>Theriogenology</i> , <b>2007</b> , 68, 861-72       | 2.8  | 28  |
| 28 | Oocyte-secreted factor activation of SMAD 2/3 signaling enables initiation of mouse cumulus cell expansion. <i>Biology of Reproduction</i> , <b>2007</b> , 76, 848-57   | 3.9  | 114 |
| 27 | Metabolism of the bovine cumulus-oocyte complex and influence on subsequent developmental competence. <i>Reproduction in Domestic Ruminants</i> , <b>2007</b> , 64, 179-90  |      | 24  |
| 26 | MHC Class II DRB genotyping is highly predictive of in-vitro alloreactivity in the common marmoset. <i>Journal of Immunological Methods</i> , <b>2006</b> , 314, 153-63   | 2.5  | 11  |
| 25 | Molecular basis of oocyte-paracrine signalling that promotes granulosa cell proliferation. <i>Journal of Cell Science</i> , <b>2006</b> , 119, 3811-21  | 5.3  | 171 |
| 24 | Glucosamine supplementation during in vitro maturation inhibits subsequent embryo development: possible role of the hexosamine pathway as a regulator of developmental competence. <i>Biology of Reproduction</i> , <b>2006</b> , 74, 881-8 | 3.9  | 41  |
| 23 | Oocyte-secreted factors enhance oocyte developmental competence. <i>Developmental Biology</i> , <b>2006</b> , 296, 514-21   | 3.1  | 261 |
| 22 | Cross-reactivity of anti-human chemokine receptor and anti-TNF family antibodies with common marmoset ( <i>Callithrix jacchus</i> ) leukocytes. <i>Cellular Immunology</i> , <b>2005</b> , 236, 115-22                                      | 4.4  | 11  |

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| 21 | Effect of hexoses and gonadotrophin supplementation on bovine oocyte nuclear maturation during in vitro maturation in a synthetic follicle fluid medium. <i>Reproduction, Fertility and Development</i> , <b>2005</b> , 17, 407-15  | 1.8 | 39  |
| 20 | Androgens augment the mitogenic effects of oocyte-secreted factors and growth differentiation factor 9 on porcine granulosa cells. <i>Biology of Reproduction</i> , <b>2005</b> , 73, 825-32  | 3.9 | 98  |
| 19 | Adenoviral gene transfer allows Smad-responsive gene promoter analyses and delineation of type I receptor usage of transforming growth factor-beta family ligands in cultured human granulosa luteal cells. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2005</b> , 90, 271-8 | 5.6 | 47  |
| 18 | Oocytes prevent cumulus cell apoptosis by maintaining a morphogenic paracrine gradient of bone morphogenetic proteins. <i>Journal of Cell Science</i> , <b>2005</b> , 118, 5257-68  | 5.3 | 264 |
| 17 | Role of oocyte-secreted growth differentiation factor 9 in the regulation of mouse cumulus expansion. <i>Endocrinology</i> , <b>2005</b> , 146, 2798-806  | 4.8 | 107 |
| 16 | Effect of specific phosphodiesterase isoenzyme inhibitors during in vitro maturation of bovine oocytes on meiotic and developmental capacity. <i>Biology of Reproduction</i> , <b>2004</b> , 71, 1142-9   | 3.9 | 98  |
| 15 | Interactions between androgen and growth factors in granulosa cell subtypes of porcine antral follicles. <i>Biology of Reproduction</i> , <b>2004</b> , 71, 45-52   | 3.9 | 61  |
| 14 | Immunoneutralization of growth differentiation factor 9 reveals it partially accounts for mouse oocyte mitogenic activity. <i>Biology of Reproduction</i> , <b>2004</b> , 71, 732-9   | 3.9 | 71  |
| 13 | Cumulus expansion and glucose utilisation by bovine cumulus-oocyte complexes during in vitro maturation: the influence of glucosamine and follicle-stimulating hormone. <i>Reproduction</i> , <b>2004</b> , 128, 313-9  | 3.8 | 91  |
| 12 | Oocyte-somatic cell interactions during follicle development in mammals. <i>Animal Reproduction Science</i> , <b>2004</b> , 82-83, 431-46   | 2.1 | 340 |
| 11 | Bovine cumulus cell-oocyte gap junctional communication during in vitro maturation in response to manipulation of cell-specific cyclic adenosine 3',5'-bisphosphate levels. <i>Biology of Reproduction</i> , <b>2004</b> , 70, 548-56   | 3.9 | 137 |
| 10 | Influence of oocyte-secreted factors and culture duration on the metabolic activity of bovine cumulus cell complexes. <i>Reproduction</i> , <b>2003</b> , 126, 27-34  | 3.8 | 83  |
| 9  | Comparison of oocyte factors and transforming growth factor-beta in the regulation of DNA synthesis in bovine granulosa cells. <i>Molecular and Cellular Endocrinology</i> , <b>2003</b> , 201, 87-95   | 4.4 | 47  |
| 8  | Expression of leptin and its receptor in the murine ovary: possible role in the regulation of oocyte maturation. <i>Biology of Reproduction</i> , <b>2002</b> , 66, 1548-54   | 3.9 | 109 |
| 7  | Differential effects of specific phosphodiesterase isoenzyme inhibitors on bovine oocyte meiotic maturation. <i>Developmental Biology</i> , <b>2002</b> , 244, 215-25   | 3.1 | 112 |
| 6  | Changes in follicle-stimulating hormone and follicle populations during the ovarian cycle of the common marmoset. <i>Biology of Reproduction</i> , <b>2001</b> , 64, 127-35   | 3.9 | 44  |
| 5  | Mouse oocyte mitogenic activity is developmentally coordinated throughout folliculogenesis and meiotic maturation. <i>Developmental Biology</i> , <b>2001</b> , 240, 289-98   | 3.1 | 65  |
| 4  | Oocyte-secreted factor(s) determine functional differences between bovine mural granulosa cells and cumulus cells. <i>Biology of Reproduction</i> , <b>2000</b> , 63, 839-45  | 3.9 | 151 |



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| 3 | Maturation, fertilization, and development of marmoset monkey oocytes in vitro. <i>Biology of Reproduction</i> , <b>1997</b> , 56, 238-46 | 3.9 | 58 |
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