

# Kylie R Dunning

## List of Publications by Year in Descending Order

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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.

42 papers	1,882 citations	22 h-index	43 g-index
48 ext. papers	2,260 ext. citations	4 avg, IF	4.84 L-index

#	Paper	IF	Citations
42	Non-invasive, label-free optical analysis to detect aneuploidy within the inner cell mass of the preimplantation embryo. <i>Human Reproduction</i> , <b>2021</b> ,	5.7	2
41	Dysregulation of bisphosphoglycerate mutase during in vitro maturation of oocytes. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2021</b> , 38, 1363-1372	3.4	0
40	Effect of oxygen and glucose availability during in vitro maturation of bovine oocytes on development and gene expression. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2021</b> , 38, 1349-1362	3.4	2
39	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
38	Optical imaging of cleavage stage bovine embryos using hyperspectral and confocal approaches reveals metabolic differences between on-time and fast-developing embryos. <i>Theriogenology</i> , <b>2021</b> , 159, 60-68	2.8	5
37	HYPOXIA AND REPRODUCTIVE HEALTH: Hypoxia and ovarian function: follicle development, ovulation, oocyte maturation. <i>Reproduction</i> , <b>2021</b> , 161, F33-F40	3.8	5
36	Does artificial intelligence have a role in the IVF clinic?. <i>Reproduction and Fertility</i> , <b>2021</b> , 2, C29-C34	1.1	0
35	Oocyte and embryo evaluation by AI and multi-spectral auto-fluorescence imaging: Livestock embryology needs to catch-up to clinical practice. <i>Theriogenology</i> , <b>2020</b> , 150, 255-262	2.8	6
34	Optical manipulation: a step change for biomedical science. <i>Contemporary Physics</i> , <b>2020</b> , 61, 277-294	3.3	2
33	A biophotonic approach to measure pH in small volumes in vitro: Quantifiable differences in metabolic flux around the cumulus-oocyte-complex (COC). <i>Journal of Biophotonics</i> , <b>2020</b> , 13, e201960038	3.1	3
32	A Bimane-Based Peptide Staple for Combined Helical Induction and Fluorescent Imaging. <i>ChemBioChem</i> , <b>2020</b> , 21, 3423-3432	3.8	2
31	Hemoglobin: potential roles in the oocyte and early embryo. <i>Biology of Reproduction</i> , <b>2019</b> , 101, 262-270	3.9	4
30	It takes a community to conceive: an analysis of the scope, nature and accuracy of online sources of health information for couples trying to conceive. <i>Reproductive Biomedicine and Society Online</i> , <b>2019</b> , 9, 48-63	1.2	6
29	Haemoglobin expression in in vivo murine preimplantation embryos suggests a role in oxygen-regulated gene expression. <i>Reproduction, Fertility and Development</i> , <b>2019</b> , 31, 724-734	1.8	3
28	Fifty years of reproductive biology in Australia: highlights from the 50th Annual Meeting of the Society for Reproductive Biology (SRB). <i>Reproduction, Fertility and Development</i> , <b>2019</b> , 31, 829-836	1.8	
27	Janus kinase JAK1 maintains the ovarian reserve of primordial follicles in the mouse ovary. <i>Molecular Human Reproduction</i> , <b>2018</b> , 24, 533-542	4.4	11
26	Failure to launch: aberrant cumulus gene expression during oocyte in vitro maturation. <i>Reproduction</i> , <b>2017</b> , 153, R109-R120	3.8	29

25	The role of l-carnitine during oocyte in vitro maturation: essential co-factor?. <i>Animal Reproduction</i> , <b>2017</b> , 14, 469-475	1.7	5
24	Activation of Mouse Cumulus-Oocyte Complex Maturation In Vitro Through EGF-Like Activity of Versican. <i>Biology of Reproduction</i> , <b>2015</b> , 92, 116	3.9	22
23	ADAMTS proteases in fertility. <i>Matrix Biology</i> , <b>2015</b> , 44-46, 54-63	11.4	36
22	Glioma-derived versican promotes tumor expansion via glioma-associated microglial/macrophages Toll-like receptor 2 signaling. <i>Neuro-Oncology</i> , <b>2015</b> , 17, 200-10	1	98
21	Lipids and oocyte developmental competence: the role of fatty acids and $\beta$ -oxidation. <i>Reproduction</i> , <b>2014</b> , 148, R15-27	3.8	201
20	Identification of sites of STAT3 action in the female reproductive tract through conditional gene deletion. <i>PLoS ONE</i> , <b>2014</b> , 9, e101182	3.7	19
19	Regulation of fatty acid oxidation in mouse cumulus-oocyte complexes during maturation and modulation by PPAR agonists. <i>PLoS ONE</i> , <b>2014</b> , 9, e87327	3.7	91
18	Promoting lipid utilization with l-carnitine to improve oocyte quality. <i>Animal Reproduction Science</i> , <b>2012</b> , 134, 69-75	2.1	53
17	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
16	Utilization of endogenous fatty acid stores for energy production in bovine preimplantation embryos. <i>Theriogenology</i> , <b>2012</b> , 77, 1632-41	2.8	68
15	Molecular filtration properties of the mouse expanded cumulus matrix: controlled supply of metabolites and extracellular signals to cumulus cells and the oocyte. <i>Biology of Reproduction</i> , <b>2012</b> , 87, 89	3.9	17
14	Transient invasive migration in mouse cumulus oocyte complexes induced at ovulation by luteinizing hormone. <i>Biology of Reproduction</i> , <b>2012</b> , 86, 125	3.9	25
13	Human cumulus cell gene expression as a biomarker of pregnancy outcome after single embryo transfer. <i>Fertility and Sterility</i> , <b>2011</b> , 96, 47-52.e2	4.8	125
12	Increased beta-oxidation and improved oocyte developmental competence in response to l-carnitine during ovarian in vitro follicle development in mice. <i>Biology of Reproduction</i> , <b>2011</b> , 85, 548-55	3.9	75
11	Beta-oxidation is essential for mouse oocyte developmental competence and early embryo development. <i>Biology of Reproduction</i> , <b>2010</b> , 83, 909-18	3.9	255
10	ADAMTS1 cleavage of versican mediates essential structural remodeling of the ovarian follicle and cumulus-oocyte matrix during ovulation in mice. <i>Biology of Reproduction</i> , <b>2010</b> , 83, 549-57	3.9	106
9	High-fat diet causes lipotoxicity responses in cumulus-oocyte complexes and decreased fertilization rates. <i>Endocrinology</i> , <b>2010</b> , 151, 5438-45	4.8	228
8	Identification of perilipin-2 as a lipid droplet protein regulated in oocytes during maturation. <i>Reproduction, Fertility and Development</i> , <b>2010</b> , 22, 1262-71	1.8	42

7	Gene delivery to airway epithelial cells in vivo: a direct comparison of apical and basolateral transduction strategies using pseudotyped lentivirus vectors. <i>Journal of Gene Medicine</i> , <b>2007</b> , 9, 362-8	3.5	56
6	Lentiviral-mediated gene correction of mucopolysaccharidosis type IIIA. <i>Genetic Vaccines and Therapy</i> , <b>2007</b> , 5, 1		22
5	Altered composition of the cumulus-oocyte complex matrix during in vitro maturation of oocytes. <i>Human Reproduction</i> , <b>2007</b> , 22, 2842-50	5.7	54
4	Requirement for ADAMTS-1 in extracellular matrix remodeling during ovarian folliculogenesis and lymphangiogenesis. <i>Developmental Biology</i> , <b>2006</b> , 300, 699-709	3.1	91
3	Codon-optimized reading frames facilitate high-level expression of the HIV-1 minor proteins. <i>Molecular Biotechnology</i> , <b>2005</b> , 31, 85-8	3	5
2	Characterization of the MEK5-ERK5 module in human neutrophils and its relationship to ERK1/ERK2 in the chemotactic response. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 49825-34	5.4	31
1	A Silk-Based Functionalization Architecture for Single Fiber Imaging and Sensing. <i>Advanced Functional Materials</i> , 2010713	15.6	3