

# Jackson C Kirkman-Brown

## List of Publications by Citations

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69  
papers

3,018  
citations

28  
h-index

54  
g-index

75  
ext. papers

3,529  
ext. citations

5  
avg, IF

5.08  
L-index

#	Paper	IF	Citations
69	The effect of sperm DNA fragmentation on miscarriage rates: a systematic review and meta-analysis. <i>Human Reproduction</i> , <b>2012</b> , 27, 2908-17	5.7	366
68	Mammalian Sperm Motility: Observation and Theory. <i>Annual Review of Fluid Mechanics</i> , <b>2011</b> , 43, 501-528	2	223
67	Human spermatozoa migration in microchannels reveals boundary-following navigation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 8007-10	11.5	193
66	Human sperm accumulation near surfaces: a simulation study. <i>Journal of Fluid Mechanics</i> , <b>2009</b> , 621, 289-320	3.7	159
65	Male Oxidative Stress Infertility (MOSI): Proposed Terminology and Clinical Practice Guidelines for Management of Idiopathic Male Infertility. <i>World Journal of Men's Health</i> , <b>2019</b> , 37, 296-312	6.8	151
64	Bend propagation in the flagella of migrating human sperm, and its modulation by viscosity. <i>Cytoskeleton</i> , <b>2009</b> , 66, 220-36		149
63	Ca <sup>2+</sup> -stores in sperm: their identities and functions. <i>Reproduction</i> , <b>2009</b> , 138, 425-37	3.8	147
62	A survey of assisted reproductive technology births and imprinting disorders. <i>Human Reproduction</i> , <b>2007</b> , 22, 3237-40	5.7	141
61	Ca <sup>2+</sup> signals generated by CatSper and Ca <sup>2+</sup> stores regulate different behaviors in human sperm. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 6248-58	5.4	111
60	The barriers to the progression of additive manufacture: Perspectives from UK industry. <i>International Journal of Production Economics</i> , <b>2018</b> , 198, 104-118	9.3	101
59	Nonlinear instability in flagellar dynamics: a novel modulation mechanism in sperm migration?. <i>Journal of the Royal Society Interface</i> , <b>2010</b> , 7, 1689-97	4.1	74
58	Sperm motility: is viscosity fundamental to progress?. <i>Molecular Human Reproduction</i> , <b>2011</b> , 17, 539-44	4.4	71
57	Biphasic elevation of [Ca <sup>2+</sup> ] <sub>i</sub> in individual human spermatozoa exposed to progesterone. <i>Developmental Biology</i> , <b>2000</b> , 222, 326-35	3.1	70
56	Counting sperm does not add up any more: time for a new equation?. <i>Reproduction</i> , <b>2007</b> , 133, 675-84	3.8	61
55	Physiological, hyaluronan-selected intracytoplasmic sperm injection for infertility treatment (HABSelect): a parallel, two-group, randomised trial. <i>Lancet, The</i> , <b>2019</b> , 393, 416-422	40	51
54	Patterns of [Ca <sup>2+</sup> ] <sub>i</sub> mobilization and cell response in human spermatozoa exposed to progesterone. <i>Developmental Biology</i> , <b>2007</b> , 302, 324-32	3.1	50
53	Coarse-Graining the Fluid Flow around a Human Sperm. <i>Physical Review Letters</i> , <b>2017</b> , 118, 124501	7.4	44

52	Encoding of progesterone stimulus intensity by intracellular $[Ca^{2+}]_i$ in human spermatozoa. <i>Biochemical Journal</i> , <b>2003</b> , 372, 407-17	3.8	44
51	Slow calcium oscillations in human spermatozoa. <i>Biochemical Journal</i> , <b>2004</b> , 378, 827-32	3.8	40
50	Pregnancy and perinatal outcomes after assisted reproduction: a comparative study. <i>Irish Journal of Medical Science</i> , <b>2008</b> , 177, 233-41	1.9	38
49	Zona pellucida and progesterone-induced $Ca^{2+}$ signaling and acrosome reaction in human spermatozoa. <i>Journal of Andrology</i> , <b>2002</b> , 23, 306-15		37
48	Modelling a tethered mammalian sperm cell undergoing hyperactivation. <i>Journal of Theoretical Biology</i> , <b>2012</b> , 309, 1-10	2.3	36
47	Mobilisation of $Ca^{2+}$ stores and flagellar regulation in human sperm by S-nitrosylation: a role for NO synthesised in the female reproductive tract. <i>Development (Cambridge)</i> , <b>2008</b> , 135, 3677-86	6.6	36
46	Development of a novel home sperm test. <i>Human Reproduction</i> , <b>2006</b> , 21, 145-9	5.7	36
45	Nifedipine reveals the existence of two discrete components of the progesterone-induced $[Ca^{2+}]_i$ transient in human spermatozoa. <i>Developmental Biology</i> , <b>2003</b> , 259, 71-82	3.1	35
44	2-APB-potentiated channels amplify CatSper-induced $Ca^{2+}$ signals in human sperm. <i>Biochemical Journal</i> , <b>2012</b> , 448, 189-200	3.8	33
43	Multi-state, 4-aminopyridine-sensitive ion channels in human spermatozoa. <i>Developmental Biology</i> , <b>2004</b> , 274, 308-17	3.1	31
42	CASA: tracking the past and plotting the future. <i>Reproduction, Fertility and Development</i> , <b>2018</b> , 30, 867-878	2.8	29
41	Kinetics of the progesterone-induced acrosome reaction and its relation to intracellular calcium responses in individual human spermatozoa. <i>Biology of Reproduction</i> , <b>2006</b> , 75, 933-9	3.9	27
40	Non-genomic steroid actions in human spermatozoa. "Persistent tickling from a laden environment". <i>Seminars in Reproductive Medicine</i> , <b>2007</b> , 25, 208-19	1.4	27
39	SARS-CoV-2 pandemic and repercussions for male infertility patients: A proposal for the individualized provision of andrological services. <i>Andrology</i> , <b>2021</b> , 9, 10-18	4.2	27
38	Coordinated transcriptional regulation patterns associated with infertility phenotypes in men. <i>Journal of Medical Genetics</i> , <b>2007</b> , 44, 498-508	5.8	26
37	The Steroid Metabolome in the Isolated Ovarian Follicle and Its Response to Androgen Exposure and Antagonism. <i>Endocrinology</i> , <b>2017</b> , 158, 1474-1485	4.8	24
36	Evaluation of a disposable plastic Neubauer counting chamber for semen analysis. <i>Fertility and Sterility</i> , <b>2009</b> , 91, 627-31	4.8	23
35	Human sperm swimming in a high viscosity mucus analogue. <i>Journal of Theoretical Biology</i> , <b>2018</b> , 446, 1-10	2.3	22

34	Rapid sperm capture: high-throughput flagellar waveform analysis. <i>Human Reproduction</i> , <b>2019</b> , 34, 1173-1185	5.1	21
33	Patch-clamp Mapping of ion channel activity in human sperm reveals regionalisation and co-localisation into mixed clusters. <i>Journal of Cellular Physiology</i> , <b>2007</b> , 213, 801-8	7	20
32	The mechanics of hyperactivation in adhered human sperm. <i>Royal Society Open Science</i> , <b>2014</b> , 1, 140230	3.3	19
31	Inhibitors of receptor tyrosine kinases do not suppress progesterone-induced [Ca <sup>2+</sup> ] <sub>i</sub> signalling in human spermatozoa. <i>Molecular Human Reproduction</i> , <b>2002</b> , 8, 326-32	4.4	18
30	Hyaluronic Acid Binding Sperm Selection for assisted reproduction treatment (HABSelect): study protocol for a multicentre randomised controlled trial. <i>BMJ Open</i> , <b>2016</b> , 6, e012609	3	17
29	Glyph-Based Video Visualization for Semen Analysis. <i>IEEE Transactions on Visualization and Computer Graphics</i> , <b>2015</b> , 21, 980-93	4	16
28	Comment on the article by J. Elgeti, U. B. Kaupp, and G. Gompper: hydrodynamics of sperm cells near surfaces. <i>Biophysical Journal</i> , <b>2011</b> , 100, 2318-20; discussion 2321-4	2.9	15
27	Evolving minimum standards in responsible international sperm donor offspring quota. <i>Reproductive BioMedicine Online</i> , <b>2015</b> , 30, 568-80	4	13
26	Calcium oscillations induced by ATP in human umbilical cord smooth muscle cells. <i>Journal of Cellular Physiology</i> , <b>2007</b> , 213, 79-87	7	10
25	Man-made versus female-made environment--will the real capacitation please stand up?. <i>Human Reproduction Update</i> , <b>2006</b> , 12, 1-2	15.8	10
24	Blast injury to the perineum. <i>Journal of the Royal Army Medical Corps</i> , <b>2013</b> , 159 Suppl 1, i1-3	0.8	9
23	Techniques for imaging Ca <sup>2+</sup> signaling in human sperm. <i>Journal of Visualized Experiments</i> , <b>2010</b> ,	1.6	9
22	2016 Laboratory guidelines for postvasectomy semen analysis: Association of Biomedical Andrologists, the British Andrology Society and the British Association of Urological Surgeons. <i>Journal of Clinical Pathology</i> , <b>2016</b> , 69, 655-60	3.9	9
21	Vitamin D and assisted reproductive treatment outcome: a prospective cohort study. <i>Reproductive Health</i> , <b>2019</b> , 16, 106	3.5	8
20	UK guidelines for the medical and laboratory procurement and use of sperm, oocyte and embryo donors (2019). <i>Human Fertility</i> , <b>2021</b> , 24, 3-13	1.9	8
19	Doing more with less: The flagellar end piece enhances the propulsive effectiveness of human spermatozoa. <i>Physical Review Fluids</i> , <b>2020</b> , 5,	2.8	7
18	Sperm selection for assisted reproduction by prior hyaluronan binding: the HABSelect RCT. <i>Efficacy and Mechanism Evaluation</i> , <b>2019</b> , 6, 1-80	1.7	7
17	Replacing IUI with IVF for initial treatment of unexplained infertility: why this NICE recommendation is cause for concern. <i>Human Fertility</i> , <b>2016</b> , 19, 80-4	1.9	7

16	Genes versus children: If the goal is parenthood, are we using the optimal approach?. <i>Human Reproduction</i> , <b>2020</b> , 35, 5-11	5.7	6
15	Understanding the physiology of pre-fertilisation events in the human spermatozoa--a necessary prerequisite to developing rational therapy. <i>Society of Reproduction and Fertility Supplement</i> , <b>2007</b> , 63, 237-55		5
14	Traumatic andropause after combat injury. <i>BMJ Case Reports</i> , <b>2015</b> , 2015,	0.9	4
13	The analogies between human development and additive manufacture: Expanding the definition of design. <i>Cogent Engineering</i> , <b>2019</b> , 6, 1662631	1.5	3
12	Temporal design for additive manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2020</b> , 106, 3849-3857	3.2	3
11	Good practice recommendations for information provision for those involved in reproductive donation.. <i>Human Reproduction Open</i> , <b>2022</b> , 2022, hoac001	6.1	3
10	On-Demand Electrical Switching of Antibody-Antigen Binding on Surfaces.. <i>ACS Applied Bio Materials</i> , <b>2018</b> , 1, 738-747	4.1	2
9	Communication between female tract and sperm: Saying NO* when you mean yes. <i>Communicative and Integrative Biology</i> , <b>2009</b> , 2, 82-5	1.7	2
8	Physiological and Proteomic Approaches to Understanding Human Sperm Function <b>2007</b> , 77-97		2
7	Reply: Development of a novel home sperm test [What are the limitations?]. <i>Human Reproduction</i> , <b>2006</b> , 21, 3030-3031	5.7	1
6	Complex combined steroid mix of the female tract modulates human sperm. <i>Reproductive Biology</i> , <b>2021</b> , 21, 100561	2.3	0
5	Reply: Development of a novel home sperm test - temperature range. <i>Human Reproduction</i> , <b>2006</b> , 21, 3028-3029	5.7	
4	Comment on "The importance of calcium in the appearance of p32, a boar sperm tyrosine phosphoprotein, during in vitro capacitation". <i>Journal of Andrology</i> , <b>2003</b> , 24, 734-5		
3	DIRECT EVIDENCE OF FUNCTIONAL L-type Ca <sup>2+</sup> CHANNELS IN HUMAN SPERMATOZOA. <i>Biochemical Society Transactions</i> , <b>2000</b> , 28, A392-A392	5.1	
2	Direct inhibition of TRPC3 by polyunsaturated fatty acids in MCF-7 breast cancer cells. <i>FASEB Journal</i> , <b>2006</b> , 20, A329	0.9	
1	Heads and Tails: Requirements for Informative and Robust Computational Measures of Sperm Motility <b>2021</b> , 135-150		