

# Christopher L R Barratt

## 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.

123  
papers

4,763  
citations

40  
h-index

67  
g-index

150  
ext. papers

5,378  
ext. citations

6.8  
avg, IF

5.45  
L-index

#	Paper	IF	Citations
123	What advances may the future bring to the diagnosis, treatment, and care of male sexual and reproductive health?. <i>Fertility and Sterility</i> , <b>2022</b> , 117, 258-267	4.8	0
122	Protocol for developing a core outcome set for male infertility research: an international consensus development study.. <i>Human Reproduction Open</i> , <b>2022</b> , 2022, hoac014	6.1	0
121	Computer-Aided Sperm Analysis <b>2022</b> , 130-154		
120	Basic Physiology <b>2022</b> , 5-33		
119	Interpreting Andrology Laboratory Results <b>2022</b> , 316-332		
118	Reproductive Toxicology <b>2022</b> , 303-306		
117	Research funding for male reproductive health and infertility in the UK and USA [2016 - 2019].. <i>Human Fertility</i> , <b>2022</b> , 1-11	1.9	0
116	Behavioural switching during oscillations of intracellular Ca concentration in free-swimming human sperm.. <i>Reproduction and Fertility</i> , <b>2021</b> , 2, L5-L7	1.1	1
115	Globozoospermia <b>2021</b> , 492-497		
114	[Ca <sup>2+</sup> ] <sub>i</sub> oscillations in human sperm are triggered in the flagellum by membrane potential-sensitive activity of CatSper. <i>Human Reproduction</i> , <b>2021</b> , 36, 293-304	5.7	7
113	A global approach to addressing the policy, research and social challenges of male reproductive health. <i>Human Reproduction Open</i> , <b>2021</b> , 2021, hoab009	6.1	6
112	Distribution of semen examination results 2020 - A follow up of data collated for the WHO semen analysis manual 2010. <i>Andrology</i> , <b>2021</b> , 9, 817-822	4.2	14
111	The structure of CatSper is revealed: happy days for sperm biology. <i>Human Reproduction</i> , <b>2021</b> , 36, 2811-2813	5.7	0
110	Donor Insemination: Past, Present and Future Perspectives <b>2020</b> , 189-198		
109	A phenotypic screening platform utilising human spermatozoa identifies compounds with contraceptive activity. <i>ELife</i> , <b>2020</b> , 9,	8.9	5
108	Continuous behavioural switching in human spermatozoa and its regulation by Ca <sup>2+</sup> -mobilising stimuli. <i>Molecular Human Reproduction</i> , <b>2019</b> , 25, 423-432	4.4	7
107	Novel pharmacological actions of trequinsin hydrochloride improve human sperm cell motility and function. <i>British Journal of Pharmacology</i> , <b>2019</b> , 176, 4521-4536	8.6	10

106	Human sperm ion channel (dys)function: implications for fertilization. <i>Human Reproduction Update</i> , <b>2019</b> , 25, 758-776	15.8	32
105	Man UpS the importance and strategy for placing male reproductive health centre stage in the political and research agenda. <i>Human Reproduction</i> , <b>2018</b> , 33, 541-545	5.7	44
104	Single-cell analysis of [Ca <sup>2+</sup> ] <sub>i</sub> signalling in sub-fertile men: characteristics and relation to fertilization outcome. <i>Human Reproduction</i> , <b>2018</b> , 33, 1023-1033	5.7	16
103	Protect us from poor-quality medical research. <i>Human Reproduction</i> , <b>2018</b> , 33, 770-776	5.7	21
102	Homozygous in-frame deletion in CATSPERE in a man producing spermatozoa with loss of CatSper function and compromised fertilizing capacity. <i>Human Reproduction</i> , <b>2018</b> , 33, 1812-1816	5.7	27
101	Education, education, education-now more than ever?. <i>Molecular Human Reproduction</i> , <b>2018</b> , 24, 426-429.4	4.4	
100	Drug discovery for male subfertility using high-throughput screening: a new approach to an unsolved problem. <i>Human Reproduction</i> , <b>2017</b> , 32, 974-984	5.7	15
99	Complex CatSper-dependent and independent [Ca <sup>2+</sup> ] <sub>i</sub> signalling in human spermatozoa induced by follicular fluid. <i>Human Reproduction</i> , <b>2017</b> , 32, 1995-2006	5.7	14
98	The diagnosis of male infertility: an analysis of the evidence to support the development of global WHO guidance-challenges and future research opportunities. <i>Human Reproduction Update</i> , <b>2017</b> , 23, 660-680	15.8	190
97	How to count sperm properlyS checklist for acceptability of studies based on human semen analysis. <i>Human Reproduction</i> , <b>2016</b> , 31, 227-32	5.7	90
96	A spontaneous increase in intracellular Ca <sup>2+</sup> in metaphase II human oocytes in vitro can be prevented by drugs targeting ATP-sensitive K <sup>+</sup> channels. <i>Human Reproduction</i> , <b>2016</b> , 31, 287-97	5.7	4
95	Depolarization of sperm membrane potential is a common feature of men with subfertility and is associated with low fertilization rate at IVF. <i>Human Reproduction</i> , <b>2016</b> , 31, 1147-57	5.7	35
94	Sperm selection in natural conception: what can we learn from Mother Nature to improve assisted reproduction outcomes?. <i>Human Reproduction Update</i> , <b>2015</b> , 21, 711-26	15.8	120
93	Specific loss of CatSper function is sufficient to compromise fertilizing capacity of human spermatozoa. <i>Human Reproduction</i> , <b>2015</b> , 30, 2737-46	5.7	45
92	Clinically relevant enhancement of human sperm motility using compounds with reported phosphodiesterase inhibitor activity. <i>Human Reproduction</i> , <b>2014</b> , 29, 2123-35	5.7	35
91	Fertility preservation in men with cancer. <i>Lancet, The</i> , <b>2014</b> , 384, 1295-301	40	107
90	Importance of defensins in sperm function. <i>Molecular Human Reproduction</i> , <b>2014</b> , 20, 821-6	4.4	47
89	Andrology is desperate for a new assay ¶Let us make sure we get it right this time ¶ <i>Middle East Fertility Society Journal</i> , <b>2013</b> , 18, 82-83	1.4	5

88	What should it take to describe a substance or product as Sperm-safe? <i>Human Reproduction Update</i> , <b>2013</b> , 19 Suppl 1, i1-45	15.8	44
87	Intracellular translocation and differential accumulation of cell-penetrating peptides in bovine spermatozoa: evaluation of efficient delivery vectors that do not compromise human sperm motility. <i>Human Reproduction</i> , <b>2013</b> , 28, 1874-89	5.7	33
86	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
85	The clinical significance of calcium-signalling pathways mediating human sperm hyperactivation. <i>Human Reproduction</i> , <b>2013</b> , 28, 866-76	5.7	75
84	p,pSDDE activates CatSper and compromises human sperm function at environmentally relevant concentrations. <i>Human Reproduction</i> , <b>2013</b> , 28, 3167-77	5.7	60
83	MHR celebration issue in tribute to Professor Sir Robert Edwards. <i>Molecular Human Reproduction</i> , <b>2013</b> , 19, 783-4	4.4	
82	When and how should new technology be introduced into the IVF laboratory?. <i>Human Reproduction</i> , <b>2012</b> , 27, 303-13	5.7	120
81	Chloride channels join the sperm channelome? <i>Journal of Physiology</i> , <b>2012</b> , 590, 2553-4	3.9	5
80	Sperm are promiscuous and CatSper is to blame? <i>EMBO Journal</i> , <b>2012</b> , 31, 1624-6	13	12
79	2-APB-potentiated channels amplify CatSper-induced Ca <sup>2+</sup> signals in human sperm. <i>Biochemical Journal</i> , <b>2012</b> , 448, 189-200	3.8	33
78	ESHRE special interest group for andrology basic semen analysis course: a continued focus on accuracy, quality, efficiency and clinical relevance. <i>Human Reproduction</i> , <b>2011</b> , 26, 3207-12	5.7	72
77	Diagnostic tools in male infertility-the question of sperm dysfunction. <i>Asian Journal of Andrology</i> , <b>2011</b> , 13, 53-8	2.8	64
76	DPY19L2 deletion as a major cause of globozoospermia. <i>American Journal of Human Genetics</i> , <b>2011</b> , 88, 344-50	11	133
75	Absolute SILAC-compatible expression strain allows Sumo-2 copy number determination in clinical samples. <i>Journal of Proteome Research</i> , <b>2011</b> , 10, 4869-75	5.6	33
74	The mystery is solved--CatSper is the principal calcium channel activated by progesterone in human spermatozoa. <i>Asian Journal of Andrology</i> , <b>2011</b> , 13, 351-2	2.8	3
73	Human oocytes express ATP-sensitive K <sup>+</sup> channels. <i>Human Reproduction</i> , <b>2010</b> , 25, 2774-82	5.7	12
72	A Practical Guide to Basic Laboratory Andrology <b>2010</b> ,		56
71	Donor insemination <b>2010</b> , 149-158		

70	Ca <sup>2+</sup> -stores in sperm: their identities and functions. <i>Reproduction</i> , <b>2009</b> , 138, 425-37	3.8	147
69	The human spermatozoon - a stripped down but refined machine. <i>Journal of Biology</i> , <b>2009</b> , 8, 63		17
68	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
67	Investigating infertility in primary care. <i>Practitioner</i> , <b>2009</b> , 253, 26-8		
66	The human sperm proteome: the potential for new biomarkers of male fertility and a transformation in our understanding of the spermatozoon as a machine: commentary on the article Identification of proteomic differences in asthenozoospermic sperm samples by Martinez et al. <i>Human Reproduction</i> , <b>2008</b> , 23, 1240-1	5.7	18
65	Mobilisation of Ca <sup>2+</sup> 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
64	Mobilisation of stored calcium in the neck region of human sperm--a mechanism for regulation of flagellar activity. <i>International Journal of Developmental Biology</i> , <b>2008</b> , 52, 615-26	1.9	62
63	Human spermatozoa contain multiple targets for protein S-nitrosylation: an alternative mechanism of the modulation of sperm function by nitric oxide?. <i>Proteomics</i> , <b>2007</b> , 7, 3066-84	4.8	132
62	[Ca <sup>2+</sup> ] <sub>i</sub> signalling in sperm--making the most of what you've got. <i>Nature Cell Biology</i> , <b>2007</b> , 9, 235-42	23.4	217
61	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
60	A survey of assisted reproductive technology births and imprinting disorders. <i>Human Reproduction</i> , <b>2007</b> , 22, 3237-40	5.7	141
59	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
58	Physiological and Proteomic Approaches to Understanding Human Sperm Function <b>2007</b> , 77-97		2
57	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
56	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
55	Gamete donation: a question of anonymity. <i>Fertility and Sterility</i> , <b>2006</b> , 85, 500-1	4.8	16
54	Characterization of cyclic adenine dinucleotide phosphate ribose levels in human spermatozoa. <i>Fertility and Sterility</i> , <b>2006</b> , 86, 891-8	4.8	6
53	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

52	Reply: Development of a novel home sperm test - temperature range. <i>Human Reproduction</i> , <b>2006</b> , 21, 3028-3029	5.7	
51	The spermatozoon at fertilisation: current understanding and future research directions. <i>Human Fertility</i> , <b>2005</b> , 8, 241-51	1.9	7
50	The impact of mitochondrial genetics on male infertility. <i>Journal of Developmental and Physical Disabilities</i> , <b>2005</b> , 28, 65-73		98
49	Secretory pathway Ca(2+)-ATPase (SPCA1) Ca(2)+ pumps, not SERCAs, regulate complex [Ca(2+)](i) signals in human spermatozoa. <i>Journal of Cell Science</i> , <b>2005</b> , 118, 1673-85	5.3	62
48	Semen analysis: setting standards for the measurement of sperm numbers. <i>Journal of Andrology</i> , <b>2005</b> , 26, 11		2
47	Stimulation of human spermatozoa with progesterone gradients to simulate approach to the oocyte. Induction of [Ca(2+)](i) oscillations and cyclical transitions in flagellar beating. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 46315-25	5.4	143
46	Raising standards in semen analysis: professional and personal responsibility. <i>Journal of Andrology</i> , <b>2004</b> , 25, 862-3		10
45	Sperm proteome mapping of a patient who experienced failed fertilization at IVF reveals altered expression of at least 20 proteins compared with fertile donors: case report. <i>Human Reproduction</i> , <b>2004</b> , 19, 1438-47	5.7	130
44	Evaluation and treatment of familial globozoospermia in five brothers. <i>Fertility and Sterility</i> , <b>2004</b> , 82, 1436-9	4.8	69
43	Clinical challenges in providing embryos for stem-cell initiatives. <i>Lancet, The</i> , <b>2004</b> , 364, 115-8	4.0	18
42	Slow calcium oscillations in human spermatozoa. <i>Biochemical Journal</i> , <b>2004</b> , 378, 827-32	3.8	40
41	Encoding of progesterone stimulus intensity by intracellular [Ca2+] ([Ca2+]i) in human spermatozoa. <i>Biochemical Journal</i> , <b>2003</b> , 372, 407-17	3.8	44
40	Physiological and proteomic approaches to studying prefertilization events in the human. <i>Reproductive BioMedicine Online</i> , <b>2003</b> , 7, 419-27	4	28
39	Functional genomics in reproductive medicine. <i>Human Fertility</i> , <b>2002</b> , 5, 3-5	1.9	3
38	Voltage-operated calcium channels in male germ cells. <i>Reproduction</i> , <b>2002</b> , 123, 203-15	3.8	37
37	Identification and localization of T-type voltage-operated calcium channel subunits in human male germ cells. Expression of multiple isoforms. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 8449-56	5.4	44
36	Critical evaluation of methylcellulose as an alternative medium in sperm migration tests. <i>Human Reproduction</i> , <b>2002</b> , 17, 143-9	5.7	46
35	The future of reproductive cellular engineering in male infertility. <i>Urologic Clinics of North America</i> , <b>2002</b> , 29, 809-15	2.9	1

34	Zona pellucida and progesterone-induced Ca <sup>2+</sup> signaling and acrosome reaction in human spermatozoa. <i>Journal of Andrology</i> , <b>2002</b> , 23, 306-15		37
33	COMMENTEEffect of a phytoestrogen food supplement on reproductive health in normal males. <i>Clinical Science</i> , <b>2001</b> , 100, 659-659	6.5	
32	COMMENTEEffect of a phytoestrogen food supplement on reproductive health in normal males. <i>Clinical Science</i> , <b>2001</b> , 100, 659	6.5	1
31	Men with oligoasthenoteratozoospermia harbour higher numbers of multiple mitochondrial DNA deletions in their spermatozoa, but individual deletions are not indicative of overall aetiology. <i>Molecular Human Reproduction</i> , <b>2001</b> , 7, 103-11	4.4	70
30	Interaction between sperm and zona pellucida in male fertility. <i>Lancet, The</i> , <b>2001</b> , 358, 1660-2	4.0	26
29	Failure of elimination of paternal mitochondrial DNA in abnormal embryos. <i>Lancet, The</i> , <b>2000</b> , 355, 200	4.0	69
28	Cryo-survival of spermatozoa. <i>Human Reproduction</i> , <b>1999</b> , 14, 2925-2925	5.7	1
27	Identification of the true human orthologue of the mouse Zp1 gene: evidence for greater complexity in the mammalian zona pellucida?. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , <b>1999</b> , 1447, 303-6		81
26	Progesterone interaction with sperm plasma membrane, calcium influx and induction of the acrosome reaction. <i>Reproductive Medicine Review</i> , <b>1999</b> , 7, 81-93		4
25	WHO manual...who should care?. <i>Human Reproduction</i> , <b>1999</b> , 14, 2431-3	5.7	13
24	Mitochondrial mutations and male infertility. <i>Nature Medicine</i> , <b>1997</b> , 3, 124-5	50.5	64
23	Response of human spermatozoa to an internal calcium ATPase inhibitor, 2,5-di(tert-butyl) hydroquinone. <i>The Journal of Experimental Zoology</i> , <b>1997</b> , 279, 284-90		7
22	Elevating intracellular calcium levels in human sperm using an internal calcium ATPase inhibitor, 2,5-di(tert-butyl) hydroquinone (TBQ), initiates capacitation and the acrosome reaction but only in the presence of extracellular calcium <b>1997</b> , 279, 291-300		4
21	The role of carbohydrate in sperm-ZP3 adhesion. <i>Molecular Human Reproduction</i> , <b>1996</b> , 2, 767-74	4.4	42
20	A double-blind randomized placebo cross-over controlled trial using the antioxidant vitamin E to treat reactive oxygen species associated male infertility. <i>Fertility and Sterility</i> , <b>1995</b> , 64, 825-31	4.8	260
19	The sequential effects of human cervical mucus, oviductal fluid, and follicular fluid on sperm function. <i>Fertility and Sterility</i> , <b>1994</b> , 61, 1129-35	4.8	45
18	The more accurate timing of insemination with regard to ovulation does not create a significant improvement in pregnancy rates in a donor insemination program. <i>Fertility and Sterility</i> , <b>1994</b> , 61, 308-13	4.8	14
17	The contribution of a hidden male factor to unexplained infertility. <i>Fertility and Sterility</i> , <b>1993</b> , 59, 405-11	4.8	33

16	The effects of clomiphene citrate and cyclofenil on cervical mucus volume and receptivity over the periovulatory period. <i>Fertility and Sterility</i> , <b>1993</b> , 59, 125-9	4.8	14
15	Peritoneal sperm recovery can be consistently demonstrated in women with unexplained infertility. <i>Fertility and Sterility</i> , <b>1990</b> , 53, 1106-8	4.8	11
14	Donor insemination--a look to the future. <i>Fertility and Sterility</i> , <b>1990</b> , 54, 375-87	4.8	42
13	The interaction of parameters of male and female fertility in couples with previously unexplained infertility**Supported by a Harris Birthright grant, Royal College of Obstetricians and Gynaecologists, London, United Kingdom.Presented at XIII World Congress of Fertility and Sterility, Marrakesh, Morocco, October 1989.. <i>Fertility and Sterility</i> , <b>1990</b> , 54, 824-827	4.8	15
12	Quality control during the conventional analysis of semen, an essential exercise. <i>Journal of Andrology</i> , <b>1989</b> , 10, 378-85		91
11	A prospective randomized controlled trial comparing urinary luteinizing hormone dipsticks and basal body temperature charts with time donor insemination. <i>Fertility and Sterility</i> , <b>1989</b> , 52, 394-7	4.8	29
10	Sperm RNA and Its Use as a Clinical Marker59-72		1
9	Regulation of Sperm Behaviour126-142		3
8	Current Concepts and Unresolved Questions in Human Sperm Cumulus and Zona Interaction152-156		
7	Male Infertility and Assisted Reproduction193-207		
6	Sperm Ultrastructure in Fertile Men and Male Sterility36-58		3
5	Basic physiology5-32		
4	Genomic and proteomic approaches to defining sperm production and function49-71		3
3	Research Funding for Male Reproductive Health and Infertility in the UK and USA [2016-2019]		1
2	Globozoospermia308-312		2
1	The use of donor insemination148-157		