Christopher L R Barratt

List of Publications by Year
in descending order

136	6,017	61945	76872
papers	citations	43 h-index	74 g-index

150	150	150	4975
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The diagnosis of male infertility: an analysis of the evidence to support the development of global WHO guidanceâ€"challenges and future research opportunities. Human Reproduction Update, 2017, 23, 660-680.	5.2	320
2	A double-blind randomized placebo cross-over controlled trial using the antioxidant vitamin E to treat reactive oxygen species associated male infertility. Fertility and Sterility, 1995, 64, 825-831.	0.5	309
3	[Ca2+]i signalling in sperm â€" making the most of what you've got. Nature Cell Biology, 2007, 9, 235-242.	4.6	245
4	Ca2+-stores in sperm: their identities and functions. Reproduction, 2009, 138, 425-437.	1.1	181
5	Sperm selection in natural conception: what can we learn from Mother Nature to improve assisted reproduction outcomes?. Human Reproduction Update, 2015, 21, 711-726.	5.2	177
6	DPY19L2 Deletion as a Major Cause of Globozoospermia. American Journal of Human Genetics, 2011, 88, 344-350.	2.6	172
7	Stimulation of Human Spermatozoa with Progesterone Gradients to Simulate Approach to the Oocyte. Journal of Biological Chemistry, 2004, 279, 46315-46325.	1.6	164
8	A survey of assisted reproductive technology births and imprinting disorders. Human Reproduction, 2007, 22, 3237-3240.	0.4	157
9	When and how should new technology be introduced into the IVF laboratory?. Human Reproduction, 2012, 27, 303-313.	0.4	146
10	Human spermatozoa contain multiple targets for protein Sâ€nitrosylation: An alternative mechanism of the modulation of sperm function by nitric oxide?. Proteomics, 2007, 7, 3066-3084.	1.3	144
11	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. Human Reproduction, 2004, 19, 1438-1447.	0.4	141
12	Ca2+ Signals Generated by CatSper and Ca2+ Stores Regulate Different Behaviors in Human Sperm*. Journal of Biological Chemistry, 2013, 288, 6248-6258.	1.6	134
13	Fertility preservation in men with cancer. Lancet, The, 2014, 384, 1295-1301.	6.3	125
14	â€˜How to count sperm properlyâ€™: checklist for acceptability of studies based on human semen analysis. Human Reproduction, 2016, 31, dev305.	0.4	120
15	The impact of mitochondrial genetics on male infertility. Journal of Developmental and Physical Disabilities, 2005, 28, 65-73.	3.6	111
16	Quality Control During the Conventional Analysis of Semen, An Essential Exercise. Journal of Andrology, 1989, 10, 378-385.	2.0	107
17	ESHRE special interest group for andrology basic semen analysis course: a continued focus on accuracy, quality, efficiency and clinical relevance. Human Reproduction, 2011, 26, 3207-3212.	0.4	103
18	Identification of the true human orthologue of the mouse Zp1 gene: evidence for greater complexity in the mammalian zona pellucida?. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1999, 1447, 303-306.	2.4	95

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19	Failure of elimination of paternal mitochondrial DNA in abnormal embryos. Lancet, The, 2000, 355, 200.	6.3	91
20	The clinical significance of calcium-signalling pathways mediating human sperm hyperactivation. Human Reproduction, 2013, 28, 866-876.	0.4	84
21	Men with oligoasthenoteratozoospermia harbour higher numbers of multiple mitochondrial DNA deletions in their spermatozoa, but individual deletions are not indicative of overall aetiology. Molecular Human Reproduction, 2001, 7, 103-111.	1.3	82
22	Evaluation and treatment of familial globozoospermia in five brothers. Fertility and Sterility, 2004, 82, 1436-1439.	0.5	76
23	Counting sperm does not add up any more: time for a new equation?. Reproduction, 2007, 133, 675-684.	1.1	75
24	Diagnostic tools in male infertilityâ€"the question of sperm dysfunction. Asian Journal of Andrology, 2011, 13, 53-58.	0.8	75
25	p,pâ€²-DDE activates CatSper and compromises human sperm function at environmentally relevant concentrations. Human Reproduction, 2013, 28, 3167-3177.	0.4	74
26	Mitochondrial mutations and male infertility. Nature Medicine, 1997, 3, 124-125.	15.2	73
27	Human sperm ion channel (dys)function: implications for fertilization. Human Reproduction Update, 2019, 25, 758-776.	5.2	68
28	Secretory pathway Ca2+-ATPase (SPCA1) Ca2+ pumps, not SERCAs, regulate complex [Ca2+]i signals in human spermatozoa. Journal of Cell Science, 2005, 118, 1673-1685.	1.2	67
29	Mobilisation of stored calcium in the neck region of human sperm a mechanism for regulation of flagellar activity. International Journal of Developmental Biology, 2008, 52, 615-626.	0.3	67
30	â€˜Man Upâ€™: the importance and strategy for placing male reproductive health centre stage in the political and research agenda. Human Reproduction, 2018, 33, 541-545.	0.4	65
31	Distribution of semen examination results 2020 â€“ A follow up of data collated for the WHO semen analysis manual 2010. Andrology, 2021, 9, 817-822.	1.9	65
32	Importance of Â-defensins in sperm function. Molecular Human Reproduction, 2014, 20, 821-826.	1.3	64
33	Identification and Localization of T-type Voltage-operated Calcium Channel Subunits in Human Male Germ Cells. Journal of Biological Chemistry, 2002, 277, 8449-8456.	1.6	62
34	Specific loss of CatSper function is sufficient to compromise fertilizing capacity of human spermatozoa. Human Reproduction, 2015, 30, dev243.	0.4	61
35	Critical evaluation of methylcellulose as an alternative medium in sperm migration tests. Human Reproduction, 2002, 17, 143-149.	0.4	59
36	Depolarization of sperm membrane potential is a common feature of men with subfertility and is associated with low fertilization rate at IVF. Human Reproduction, 2016, 31, 1147-1157.	0.4	57

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37	Encoding of progesterone stimulus intensity by intracellular [Ca2+] ([Ca2+]i) in human spermatozoa. Biochemical Journal, 2003, 372, 407-417.	1.7	52
38	The sequential effects of human cervical mucus, oviductal fluid, and follicular fluid on sperm function. Fertility and Sterility, 1994, 61, 1129-1135.	0.5	51
39	What should it take to describe a substance or product as 'sperm-safe'. Human Reproduction Update, 2013, 19, i1-i45.	5.2	50
40	Donor inseminationâ€"a look to the future. Fertility and Sterility, 1990, 54, 375-387.	0.5	48
41	The role of carbohydrate in sperm-ZP3 adhesion. Molecular Human Reproduction, 1996, 2, 767-774.	1.3	45
42	Voltage-operated calcium channels in male germ cells. Reproduction, 2002, 123, 203-215.	1.1	45
43	Slow calcium oscillations in human spermatozoa. Biochemical Journal, 2004, 378, 827-832.	1.7	44
44	Mobilisation of Ca2+ stores and flagellar regulation in human sperm by S-nitrosylation: a role for NO synthesised in the female reproductive tract. Development (Cambridge), 2008, 135, 3677-3686.	1.2	44
45	Clinically relevant enhancement of human sperm motility using compounds with reported phosphodiesterase inhibitor activity. Human Reproduction, 2014, 29, 2123-2135.	0.4	44
46	Homozygous in-frame deletion inCATSPEREin a man producing spermatozoa with loss of CatSper function and compromised fertilizing capacity. Human Reproduction, 2018, 33, 1812-1816.	0.4	43
47	Intracellular translocation and differential accumulation of cell-penetrating peptides in bovine spermatozoa: evaluation of efficient delivery vectors that do not compromise human sperm motility. Human Reproduction, 2013, 28, 1874-1889.	0.4	40
48	Protect us from poor-quality medical research. Human Reproduction, 2018, 33, 770-776.	0.4	40
49	Absolute SILAC-Compatible Expression Strain Allows Sumo-2 Copy Number Determination in Clinical Samples. Journal of Proteome Research, 2011, 10, 4869-4875.	1.8	39
50	The contribution of a hidden male factor to unexplained infertility. Fertility and Sterility, 1993, 59, 405-411.	0.5	38
51	2-APB-potentiated channels amplify CatSper-induced Ca2+ signals in human sperm. Biochemical Journal, 2012, 448, 189-200.	1.7	38
52	Zona pellucida and progesterone-induced Ca2+ signaling and acrosome reaction in human spermatozoa. Journal of Andrology, 2002, 23, 306-15.	2.0	37
53	Kinetics of the Progesterone-Induced Acrosome Reaction and Its Relation to Intracellular Calcium Responses in Individual Human Spermatozoa1. Biology of Reproduction, 2006, 75, 933-939.	1.2	33
54	A prospective randomized controlled trial comparing urinary luteinizing hormone dipsticks and basal body temperature charts with time donor insemination. Fertility and Sterility, 1989, 52, 394-397.	0.5	31

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55	Physiological and proteomic approaches to studying prefertilization events in the human. Reproductive BioMedicine Online, 2003, 7, 419-427.	1.1	30
56	Coordinated transcriptional regulation patterns associated with infertility phenotypes in men. Journal of Medical Genetics, 2007, 44, 498-508.	1.5	30
57	Clinical relevance of sperm DNA assessment: an update. Fertility and Sterility, 2010, 94, 1958-1959.	0.5	27
58	Interaction between sperm and zona pellucida in male fertility. Lancet, The, 2001, 358, 1660-1662.	6.3	26
59	Progesterone's gateway into sperm. Nature, 2011, 471, 313-314.	13.7	26
60	Single-cell analysis of [Ca2+]i signalling in sub-fertile men: characteristics and relation to fertilization outcome. Human Reproduction, 2018, 33, 1023-1033.	0.4	25
61	Complex CatSper-dependent and independent [Ca2+]i signalling in human spermatozoa induced by follicular fluid. Human Reproduction, 2017, 32, 1995-2006.	0.4	22
62	Gamete donation: a question of anonymity. Fertility and Sterility, 2006, 85, 500-501.	0.5	21
63	Novel pharmacological actions of trequinsin hydrochloride improve human sperm cell motility and function. British Journal of Pharmacology, 2019, 176, 4521-4536.	2.7	21
64	The human spermatozoon â€“ a stripped down but refined machine. Journal of Biology, 2009, 8, 63.	2.7	20
65	Clinical challenges in providing embryos for stem-cell initiatives. Lancet, The, 2004, 364, 115-118.	6.3	19
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.. Human Reproduction, 2008, 23, 1240-1241.	0.4	19
67	Drug discovery for male subfertility using high-throughput screening: a new approach to an unsolved problem. Human Reproduction, 2017, 32, 974-984.	0.4	19
68	A global approach to addressing the policy, research and social challenges of male reproductive health. Human Reproduction Open, 2021, 2021, hoab009.	2.3	19
69	Raising Standards in Semen Analysis: Professional and Personal Responsibility. Journal of Andrology, 2004, 25, 862-863.	2.0	18
70	Sperm motility: things are moving in the lab!. Molecular Human Reproduction, 2011, 17, 453-456.	1.3	18
71	[Ca2+]i oscillations in human sperm are triggered in the flagellum by membrane potential-sensitive activity of CatSper. Human Reproduction, 2021, 36, 293-304.	0.4	17
72	Extended semen examinations in the sixth edition of the WHO Laboratory Manual for the Examination and Processing of Human Semen: contributing to the understanding of the function of the male reproductive system. Fertility and Sterility, 2022, 117, 252-257.	0.5	17

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73	The effects of clomiphene citrate and cyclofenil on cervical mucus volume and receptivity over the periovulatory period. Fertility and Sterility, 1993, 59, 125-129.	0.5	16
74	The more accurate timing of insemination with regard to ovulation does not create a significant improvement in pregnancy rates in a donor insemination program. Fertility and Sterility, 1994, 61, 308-313.	0.5	16
75	WHO manual...Who should care?*. Human Reproduction, 1999, 14, 2431-2433.	0.4	16
76	A phenotypic screening platform utilising human spermatozoa identifies compounds with contraceptive activity. ELife, 2020, 9, .	2.8	16
77	The interaction of parameters of male and female fertility in couples with previously unexplained infertility. Fertility and Sterility, 1990, 54, 824-827.	0.5	15
78	Human oocytes express ATP-sensitive K+ channels. Human Reproduction, 2010, 25, 2774-2782.	0.4	15
79	Male infertility joins the translational medicine revolution. Sperm DNA: from basic science to clinical reality. Molecular Human Reproduction, 2010, 16, 1-2.	1.3	13
80	Sperm are promiscuous and CatSper is to blameâ€¦. EMBO Journal, 2012, 31, 1624-1626.	3.5	13
81	Peritoneal sperm recovery can be consistently demonstrated in women with unexplained infertility. Fertility and Sterility, 1990, 53, 1106-1108.	0.5	12
82	What advances may the future bring to the diagnosis, treatment, and care of male sexual and reproductive health?. Fertility and Sterility, 2022, 117, 258-267.	0.5	12
83	The spermatozoon at fertilisation: Current understanding and future research directions. Human Fertility, 2005, 8, 241-251.	0.7	9
84	Continuous behavioural â€˜switchingâ€™ in human spermatozoa and its regulation by Ca2+-mobilising stimuli. Molecular Human Reproduction, 2019, 25, 423-432.	1.3	9
85	Response of human spermatozoa to an internal calcium ATPase inhibitor, 2,5-di(tert-butyl) hydroquinone. , 1997, 279, 284-290.		8
86	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. , 1997, 279, 291-300.		7
87	Chloride channels join the sperm â€˜channelomeâ€™. Journal of Physiology, 2012, 590, 2553-2554.	1.3	7
88	Progesterone interaction with sperm plasma membrane, calcium influx and induction of the acrosome reaction. Reproductive Medicine Review, 1999, 7, 81-93.	0.3	6
89	Characterization of cyclic adenine dinucleotide phosphate ribose levels in human spermatozoa. Fertility and Sterility, 2006, 86, 891-898.	0.5	6
90	A spontaneous increase in intracellular Ca2+in metaphase II human oocytesin vitrocan be prevented by drugs targeting ATP-sensitive K+channels. Human Reproduction, 2015, 31, dev300.	0.4	6

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91	Is there a robust future for research in reproduction?. Molecular Human Reproduction, 2016, 22, 1-2.	1.3	6
92	Compounds enhancing human sperm motility identified using a high-throughput phenotypic screening platform. Human Reproduction, 2022, 37, 466-475.	0.4	6
93	Andrology is desperate for a new assay â€“ Let us make sure we get it right this timeâ€¦. Middle East Fertility Society Journal, 2013, 18, 82-83.	0.5	5
94	WHO 2021 and 2030 reference values for semen assessment: three challenges for andrology in the journey ahead. Reproductive BioMedicine Online, 2022, 45, 187-190.	1.1	5
95	Functional genomics in reproductive medicine. Human Fertility, 2002, 5, 3-5.	0.7	4
96	Communication between female tract and sperm. Communicative and Integrative Biology, 2009, 2, 82-85.	0.6	4
97	Regulation of Sperm Behaviour. , 2017, , 126-142.		4
98	Protocol for developing a core outcome set for male infertility research: an international consensus development study. Human Reproduction Open, 2022, 2022, hoac014.	2.3	4
99	Cryo-survival of spermatozoa. Human Reproduction, 1999, 14, 2925-2925.	0.4	3
100	COMMENTEffect of a phytoestrogen food supplement on reproductive health in normal males. Clinical Science, 2001, 100, 659.	1.8	3
101	Genomic and proteomic approaches to defining sperm production and function. , 0, , 49-71.		3
102	Sperm Ultrastructure in Fertile Men and Male Sterility: Revisiting Teratozoospermia. , 0, , 36-58.		3
103	The mystery is solvedâ€”CatSper is the principal calcium channel activated by progesterone in human spermatozoa. Asian Journal of Andrology, 2011, 13, 351-352.	0.8	3
104	High-throughput phenotypic screening of the human spermatozoon. Reproduction, 2022, 163, R1-R9.	1.1	3
105	Semen analysis: setting standards for the measurement of sperm numbers. Journal of Andrology, 2005, 26, 11.	2.0	3
106	Research funding for male reproductive health and infertility in the UK and USA [2016 â€“ 2019]. Human Fertility, 2023, 26, 439-449.	0.7	3
107	Sperm RNA and Its Use as a Clinical Marker. , 2017, , 59-72.		2
108	A Dolce & Gabbana model in every ART clinic?. Molecular Human Reproduction, 2018, 24, 431-432.	1.3	2

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109	Physiological and Proteomic Approaches to Understanding Human Sperm Function. , 2007, , 77-97.		2
110	The future of reproductive cellular engineering in male infertility. Urologic Clinics of North America, 2002, 29, 809-815.	0.8	1
111	Reply: Development of a novel home sperm test â€“ What are the limitations?. Human Reproduction, 2006, 21, 3030-3031.	0.4	1
112	Preimplantation genetic screeningâ€”23 years to navigate and translate into the clinical arena. We need a new roadmap!. Molecular Human Reproduction, 2016, 22, 837-838.	1.3	1
113	â€˜Single cell analysis in developmentâ€™ special series. Molecular Human Reproduction, 2016, 22, 159-159.	1.3	1
114	Male fertility: a window on the health of this generation and the next. Reproductive BioMedicine Online, 2019, 39, 721-723.	1.1	1
115	Behavioural switching during oscillations of intracellular Ca2+ concentration in free-swimming human sperm. Reproduction and Fertility, 2021, 2, L5-L7.	0.6	1
116	The structure of CatSper is revealed: happy days for sperm biology. Human Reproduction, 2021, 36, 2811-2813.	0.4	1
117	Letters to the Editor. Human Reproduction, 1991, 6, 611-611.	0.4	0
118	COMMENTEffect of a phytoestrogen food supplement on reproductive health in normal males. Clinical Science, 2001, 100, 659-659.	1.8	0
119	Reply: Development of a novel home sperm test - temperature range. Human Reproduction, 2006, 21, 3028-3029.	0.4	0
120	Basic physiology. , 0, , 5-32.		0
121	Where the rubber hits the road: the translational pulse of reproductive biology. Molecular Human Reproduction, 2013, 19, 119-119.	1.3	0
122	MHR celebration issue in tribute to Professor Sir Robert Edwards. Molecular Human Reproduction, 2013, 19, 783-784.	1.3	0
123	Lessons in Andrology. Andrology, 2016, 4, 987-989.	1.9	0
124	Current Concepts and Unresolved Questions in Human Sperm Cumulus and Zona Interaction. , 0, , 152-156.		0
125	Male Infertility and Assisted Reproduction. , 0, , 193-207.		0
126	People are very open-minded about new things, as long as they are exactly like the old onesâ€. Molecular Human Reproduction, 2018, 24, 1-1.	1.3	0

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127	Education, education, educationâ€”now more than ever?. Molecular Human Reproduction, 2018, 24, 426-429.	1.3	0
128	#ESHREjc live edition report: â€˜the forgotten Yâ€™â€”advanced paternal age from a global health perspective. Human Reproduction, 2021, 37, 195-197.	0.4	0
129	Donor insemination. , 2010, , 149-158.		0
130	Donor Insemination: Past, Present and Future Perspectives. , 2020, , 189-198.		0
131	Counting the Hidden Costs of Male Reproductive Health. World Journal of Men?s Health, 2022, 40, .	1.7	0
132	Investigating infertility in primary care. Practitioner, 2009, 253, 26-8.	0.3	0
133	Computer-Aided Sperm Analysis. , 2022, , 130-154.		0
134	Basic Physiology. , 2022, , 5-33.		0
135	Reproductive Toxicology. , 2022, , 303-306.		0
136	The use of donor insemination. , 0, , 148-157.		0