

# Christophe Arnoult

## List of Publications by Year in descending order

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96  
papers

4,906  
citations

94381

37  
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106281

65  
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105  
all docs

105  
docs citations

105  
times ranked

3412  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mutations in DNAH1, which Encodes an Inner Arm Heavy Chain Dynein, Lead to Male Infertility from Multiple Morphological Abnormalities of the Sperm Flagella. American Journal of Human Genetics, 2014, 94, 95-104.	2.6	328
2	Teratozoospermia: spotlight on the main genetic actors in the human. Human Reproduction Update, 2015, 21, 455-485.	5.2	255
3	Ca <sup>2+</sup> Entry through Store-operated Channels in Mouse Sperm Is Initiated by Egg ZP3 and Drives the Acrosome Reaction. Molecular Biology of the Cell, 2000, 11, 1571-1584.	0.9	208
4	A Perspective on the Control of Mammalian Fertilization by Egg-Activated Ion Channels in Sperm: A Tale of Two Channels. Biology of Reproduction, 1998, 59, 12-16.	1.2	177
5	Mutations in CFAP43 and CFAP44 cause male infertility and flagellum defects in Trypanosoma and human. Nature Communications, 2018, 9, 686.	5.8	173
6	A Recurrent Deletion of DPY19L2 Causes Infertility in Man by Blocking Sperm Head Elongation and Acrosome Formation. American Journal of Human Genetics, 2011, 88, 351-361.	2.6	165
7	Absence of Dpy19l2, a new inner nuclear membrane protein, causes globozoospermia in mice by preventing the anchoring of the acrosome to the nucleus. Development (Cambridge), 2012, 139, 2955-2965.	1.2	144
8	The genetic architecture of morphological abnormalities of the sperm tail. Human Genetics, 2021, 140, 21-42.	1.8	130
9	Genetic abnormalities leading to qualitative defects of sperm morphology or function. Clinical Genetics, 2017, 91, 217-232.	1.0	127
10	Absence of CFAP69 Causes Male Infertility due to Multiple Morphological Abnormalities of the Flagella in Human and Mouse. American Journal of Human Genetics, 2018, 102, 636-648.	2.6	121
11	Junctate is a key element in calcium entry induced by activation of InsP3 receptors and/or calcium store depletion. Journal of Cell Biology, 2004, 166, 537-548.	2.3	116
12	Bi-allelic Mutations in ARMC2 Lead to Severe Astheno-Teratozoospermia Due to Sperm Flagellum Malformations in Humans and Mice. American Journal of Human Genetics, 2019, 104, 331-340.	2.6	113
13	Homozygous mutation of PLCZ1 leads to defective human oocyte activation and infertility that is not rescued by the WW-binding protein PAWP. Human Molecular Genetics, 2016, 25, 878-891.	1.4	112
14	Bi-allelic DNAH8 Variants Lead to Multiple Morphological Abnormalities of the Sperm Flagella and Primary Male Infertility. American Journal of Human Genetics, 2020, 107, 330-341.	2.6	111
15	Bi-allelic Mutations in TTC21A Induce Asthenoteratospermia in Humans and Mice. American Journal of Human Genetics, 2019, 104, 738-748.	2.6	103
16	Whole-exome sequencing of familial cases of multiple morphological abnormalities of the sperm flagella (MMAF) reveals new DNAH1 mutations. Human Reproduction, 2016, 31, 2872-2880.	0.4	96
17	SPINK2 deficiency causes infertility by inducing sperm defects in heterozygotes and azoospermia in homozygotes. EMBO Molecular Medicine, 2017, 9, 1132-1149.	3.3	95
18	Homozygous missense mutation L673P in adenylate kinase 7 (AK7) leads to primary male infertility and multiple morphological anomalies of the flagella but not to primary ciliary dyskinesia. Human Molecular Genetics, 2018, 27, 1196-1211.	1.4	95

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19	Whole-exome sequencing identifies mutations in FSIP2 as a recurrent cause of multiple morphological abnormalities of the sperm flagella. <i>Human Reproduction</i> , 2018, 33, 1973-1984.	0.4	93
20	Patients with multiple morphological abnormalities of the sperm flagella due to <i>DNAH1</i> mutations have a good prognosis following intracytoplasmic sperm injection. <i>Human Reproduction</i> , 2016, 31, 1164-1172.	0.4	85
21	Subcellular localization of phospholipase C $\eta$ in human sperm and its absence in DPY19L2-deficient sperm are consistent with its role in oocyte activation. <i>Molecular Human Reproduction</i> , 2015, 21, 157-168.	1.3	83
22	A Homozygous Ancestral SVA-Insertion-Mediated Deletion in WDR66 Induces Multiple Morphological Abnormalities of the Sperm Flagellum and Male Infertility. <i>American Journal of Human Genetics</i> , 2018, 103, 400-412.	2.6	81
23	Skeletal muscle ATP-sensitive K <sup>+</sup> channels recorded from sarcolemmal blebs of split fibers: ATP inhibition is reduced by magnesium and ADP. <i>Journal of Membrane Biology</i> , 1991, 122, 165-175.	1.0	78
24	A new AURKC mutation causing macrozoospermia: implications for human spermatogenesis and clinical diagnosis. <i>Molecular Human Reproduction</i> , 2011, 17, 762-768.	1.3	65
25	Group X phospholipase A2 is released during sperm acrosome reaction and controls fertility outcome in mice. <i>Journal of Clinical Investigation</i> , 2010, 120, 1415-1428.	3.9	65
26	Identification and Localization of T-type Voltage-operated Calcium Channel Subunits in Human Male Germ Cells. <i>Journal of Biological Chemistry</i> , 2002, 277, 8449-8456.	1.6	62
27	Junctate, an inositol 1,4,5-triphosphate receptor associated protein, is present in rodent sperm and binds TRPC2 and TRPC5 but not TRPC1 channels. <i>Developmental Biology</i> , 2005, 286, 326-337.	0.9	62
28	MLPA and sequence analysis of DPY19L2 reveals point mutations causing globozoospermia. <i>Human Reproduction</i> , 2012, 27, 2549-2558.	0.4	62
29	Dpy19l2-deficient globozoospermic sperm display altered genome packaging and DNA damage that compromises the initiation of embryo development. <i>Molecular Human Reproduction</i> , 2015, 21, 169-185.	1.3	61
30	Cacnb4 directly couples electrical activity to gene expression, a process defective in juvenile epilepsy. <i>EMBO Journal</i> , 2012, 31, 3730-3744.	3.5	57
31	<i>PATL2</i> is a key actor of oocyte maturation whose invalidation causes infertility in women and mice. <i>EMBO Molecular Medicine</i> , 2018, 10, .	3.3	53
32	Identification of a new recurrent Aurora kinase C mutation in both European and African men with macrozoospermia. <i>Human Reproduction</i> , 2012, 27, 3337-3346.	0.4	52
33	Diversity of RNA-Binding Proteins Modulating Post-Transcriptional Regulation of Protein Expression in the Maturing Mammalian Oocyte. <i>Cells</i> , 2020, 9, 662.	1.8	50
34	Hourglass SiO <sub>2</sub> coating increases the performance of planar patch-clamp. <i>Journal of Biotechnology</i> , 2006, 125, 142-154.	1.9	47
35	Expression, localization and functions in acrosome reaction and sperm motility of CaV3.1 and CaV3.2 channels in sperm cells: An evaluation from CaV3.1 and CaV3.2 deficient mice. <i>Journal of Cellular Physiology</i> , 2007, 212, 753-763.	2.0	46
36	Biophysical and pharmacological characterization of spermatogenic T-type calcium current in mice lacking the CaV3.1 ( $\pm 1G$ ) calcium channel: CaV3.2 ( $\pm 1H$ ) is the main functional calcium channel in wild-type spermatogenic cells. <i>Journal of Cellular Physiology</i> , 2004, 200, 116-124.	2.0	45

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37	Mutations in TTC29, Encoding an Evolutionarily Conserved Axonemal Protein, Result in Asthenozoospermia and Male Infertility. <i>American Journal of Human Genetics</i> , 2019, 105, 1148-1167.	2.6	44
38	Paternal epigenetics: Mammalian sperm provide much more than DNA at fertilization. <i>Molecular and Cellular Endocrinology</i> , 2020, 518, 110964.	1.6	44
39	CFAP70 mutations lead to male infertility due to severe astheno-teratozoospermia. A case report. <i>Human Reproduction</i> , 2019, 34, 2071-2079.	0.4	43
40	Genetic causes of male infertility: snapshot on morphological abnormalities of the sperm flagellum. <i>Basic and Clinical Andrology</i> , 2019, 29, 2.	0.8	43
41	Biallelic variants in <i>MAATS1</i> encoding CFAP91, a calmodulin-associated and spoke-associated complex protein, cause severe astheno-teratozoospermia and male infertility. <i>Journal of Medical Genetics</i> , 2020, 57, 708-716.	1.5	43
42	Whole-exome sequencing improves the diagnosis and care of men with non-obstructive azoospermia. <i>American Journal of Human Genetics</i> , 2022, 109, 508-517.	2.6	41
43	Dynamics of Sun5 Localization during Spermatogenesis in Wild Type and Dpy19l2 Knock-Out Mice Indicates That Sun5 Is Not Involved in Acrosome Attachment to the Nuclear Envelope. <i>PLoS ONE</i> , 2015, 10, e0118698.	1.1	37
44	Mutations of the aurora kinase C gene causing macrozoospermia are the most frequent genetic cause of male infertility in Algerian men. <i>Asian Journal of Andrology</i> , 2015, 17, 68.	0.8	37
45	Triadin (Trisk 95) Overexpression Blocks Excitation-Contraction Coupling in Rat Skeletal Myotubes. <i>Journal of Biological Chemistry</i> , 2005, 280, 39302-39308.	1.6	33
46	Genetics of teratozoospermia: Back to the head. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2020, 34, 101473.	2.2	32
47	Whole exome sequencing of men with multiple morphological abnormalities of the sperm flagella reveals novel homozygous <i>QRICH2</i> mutations. <i>Clinical Genetics</i> , 2019, 96, 394-401.	1.0	30
48	Lack of FcRn Impairs Natural Killer Cell Development and Functions in the Tumor Microenvironment. <i>Frontiers in Immunology</i> , 2018, 9, 2259.	2.2	28
49	The sodium/proton exchanger <i>SLC9C1</i> ( <i>sNHE</i> ) is essential for human sperm motility and fertility. <i>Clinical Genetics</i> , 2021, 99, 684-693.	1.0	26
50	Fine Characterisation of a Recombination Hotspot at the DPY19L2 Locus and Resolution of the Paradoxical Excess of Duplications over Deletions in the General Population. <i>PLoS Genetics</i> , 2013, 9, e1003363.	1.5	25
51	Progesterone-induced Acrosome Exocytosis Requires Sequential Involvement of Calcium-independent Phospholipase A2 $\hat{2}$ (iPLA2 $\hat{2}$ ) and Group X Secreted Phospholipase A2 (sPLA2). <i>Journal of Biological Chemistry</i> , 2016, 291, 3076-3089.	1.6	25
52	Loss of the deglutamylase CCP5 perturbs multiple steps of spermatogenesis and leads to male infertility. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	25
53	Immune dysregulation, polyendocrinopathy, enteropathy, X-linked syndrome and recurrent intrauterine fetal death. <i>Lancet, The</i> , 2015, 385, 2120.	6.3	24
54	Creation of knock out and knock in mice by CRISPR/Cas9 to validate candidate genes for human male infertility, interest, difficulties and feasibility. <i>Molecular and Cellular Endocrinology</i> , 2018, 468, 70-80.	1.6	24

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55	Genetic analyses of a large cohort of infertile patients with globozoospermia, DPY19L2 still the main actor, GGN confirmed as a guest player. <i>Human Genetics</i> , 2021, 140, 43-57.	1.8	24
56	The sperm-associated antigen 6 interactome and its role in spermatogenesis. <i>Reproduction</i> , 2019, 158, 183-199.	1.1	24
57	CFAP61 is required for sperm flagellum formation and male fertility in human and mouse. <i>Development (Cambridge)</i> , 2021, 148, .	1.2	24
58	Bi-allelic truncating variants in CFAP206 cause male infertility in human and mouse. <i>Human Genetics</i> , 2021, 140, 1367-1377.	1.8	23
59	Could modifications of signalling pathways activated after ICSI induce a potential risk of epigenetic defects?. <i>International Journal of Developmental Biology</i> , 2011, 55, 143-152.	0.3	22
60	Defect in the nuclear pore membrane glycoprotein 210-like gene is associated with extreme uncondensed sperm nuclear chromatin and male infertility: a case report. <i>Human Reproduction</i> , 2021, 36, 693-701.	0.4	20
61	A missense mutation in IFT74, encoding for an essential component for intraflagellar transport of Tubulin, causes asthenozoospermia and male infertility without clinical signs of Bardet-Biedl syndrome. <i>Human Genetics</i> , 2021, 140, 1031-1043.	1.8	20
62	Novel Postfertilization Inward Ca <sup>2+</sup> Current in Ascidian Eggs Ensuring a Calcium Entry throughout Meiosis. <i>Developmental Biology</i> , 1996, 174, 322-334.	0.9	18
63	Spermaurin, an La1-like peptide from the venom of the scorpion <i>Scorpio maurus palmatus</i> , improves sperm motility and fertilization in different mammalian species. <i>Molecular Human Reproduction</i> , 2016, 23, 116-131.	1.3	18
64	The eggstraordinary story of how life begins. <i>Molecular Reproduction and Development</i> , 2019, 86, 4-19.	1.0	17
65	A recycling anti-transferrin receptor-1 monoclonal antibody as an efficient therapy for erythroleukemia through target up-regulation and antibody-dependent cytotoxic effector functions. <i>MAbs</i> , 2019, 11, 593-605.	2.6	17
66	A ryanodine-sensitive calcium store in ascidian eggs monitored by whole-cell patch-clamp recordings. <i>Cell Calcium</i> , 1997, 21, 93-101.	1.1	16
67	Snake venoms as a source of compounds modulating sperm physiology: Secreted phospholipases A2 from <i>Oxyuranus scutellatus scutellatus</i> impact sperm motility, acrosome reaction and in vitro fertilization in mice. <i>Biochimie</i> , 2010, 92, 826-836.	1.3	16
68	Crucial Role for Immune Complexes but Not FcRn in Immunization against Anti-TNF- $\alpha$ Antibodies after a Single Injection in Mice. <i>Journal of Immunology</i> , 2017, 199, 418-424.	0.4	16
69	Group X secreted phospholipase A <sub>2</sub> specifically decreases sperm motility in mice. <i>Journal of Cellular Physiology</i> , 2011, 226, 2601-2609.	2.0	15
70	Repositioning of charged III loop amino acid residues within the electric field by beta subunit as a novel working hypothesis for the control of fast P/Q calcium channel inactivation. <i>European Journal of Neuroscience</i> , 2004, 19, 1759-1772.	1.2	14
71	The development of high quality seals for silicon patch-clamp chips. <i>Biomaterials</i> , 2010, 31, 7398-7410.	5.7	14
72	AU040320 deficiency leads to disruption of acrosome biogenesis and infertility in homozygous mutant mice. <i>Scientific Reports</i> , 2018, 8, 10379.	1.6	13

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73	Oligogenic heterozygous inheritance of sperm abnormalities in mouse. <i>ELife</i> , 2022, 11, .	2.8	12
74	Cell Cycle-Related Fluctuations in Oocyte Surface Area of the Ascidian <i>Ciona intestinalis</i> after Meiosis Resumption. <i>Developmental Biology</i> , 1994, 166, 1-10.	0.9	11
75	Contribution of the kinetics of G protein dissociation to the characteristic modifications of N-type calcium channel activity. <i>Neuroscience Research</i> , 2006, 56, 332-343.	1.0	11
76	Actiflagelin, a new sperm activator isolated from <i>Walterinnesia aegyptia</i> venom using phenotypic screening. <i>Journal of Venomous Animals and Toxins Including Tropical Diseases</i> , 2018, 24, 2.	0.8	11
77	Pantoprazole, a protonâ€pump inhibitor, impairs human sperm motility and capacitation in vitro. <i>Andrology</i> , 2020, 8, 1795-1804.	1.9	9
78	Commentary on "morphological characteristics and initial genetic study of multiple morphological anomalies of the flagella in China". <i>Asian Journal of Andrology</i> , 2016, 18, 812.	0.8	8
79	Functional Interaction between Mouse Spermatogenic LVA and Thapsigargin-Modulated Calcium Channels. <i>Developmental Biology</i> , 2002, 252, 72-83.	0.9	7
80	The effect of group X secreted phospholipase A2 on fertilization outcome is specific and not mimicked by other secreted phospholipases A2 or progesterone. <i>Biochimie</i> , 2014, 99, 88-95.	1.3	7
81	Sun proteins and Dpy19l2 forming LINC-like links are critical for spermiogenesis. <i>Biology Open</i> , 2016, 5, 535-536.	0.6	7
82	Slo3 K+ channel blocker clofilium extends bull and mouse sperm-fertilizing competence. <i>Reproduction</i> , 2018, 156, 463-476.	1.1	7
83	An Intimate Biochemistry: Egg-Regulated Acrosome Reactions of Mammalian Sperm. <i>Advances in Developmental Biochemistry</i> , 1999, 5, 199-233.	0.9	6
84	MAP6 interacts with Tctex1 and Ca <sup>2.2</sup> /Na <sup>+</sup> -type calcium channels to regulate calcium signalling in neurons. <i>European Journal of Neuroscience</i> , 2017, 46, 2754-2767.	1.2	5
85	Identification, Characterization and Synthesis of Walterospermin, a Sperm Motility Activator from the Egyptian Black Snake <i>Walterinnesia aegyptia</i> Venom. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7786.	1.8	5
86	Identification and Characterization of the Most Common Genetic Variant Responsible for Acephalic Spermatozoa Syndrome in Men Originating from North Africa. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2187.	1.8	5
87	A recurrent <i>ZP1</i> variant is responsible for oocyte maturation defect with degenerated oocytes in infertile females. <i>Clinical Genetics</i> , 2022, 102, 22-29.	1.0	5
88	A miniaturized planar patch-clamp system for transportable use. <i>Biosensors and Bioelectronics</i> , 2012, 32, 96-103.	5.3	4
89	Comparative testicular transcriptome of wild type and globozoospermic Dpy19l2 knock out mice. <i>Basic and Clinical Andrology</i> , 2013, 23, 7.	0.8	4
90	From azoospermia to macrozoospermia, a phenotypic continuum due to mutations in the ZMYND15 gene. <i>Asian Journal of Andrology</i> , 2022, 24, 243.	0.8	4

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91	Deslorelin acetate implant induces transient sterility and behavior changes in male olive baboon ( <i>Papio anubis</i> ): A case study. <i>Journal of Medical Primatology</i> , 2020, 49, 344-348.	0.3	2
92	Measure of sperm DNA fragmentation (SDF): how, why and when?. <i>Translational Andrology and Urology</i> , 2017, 6, S588-S589.	0.6	1
93	Enzymatic activity of mouse group X-sPLA2 improves in vitro production of preimplantation bovine embryos. <i>Theriogenology</i> , 2019, 131, 113-122.	0.9	1
94	Combined Use of Whole Exome Sequencing and CRISPR/Cas9 to Study the Etiology of Non-Obstructive Azoospermia: Demonstration of the Dispensable Role of the Testis-Specific Genes C1orf185 and CCT6B. <i>Cells</i> , 2022, 11, 118.	1.8	1
95	Complexity and diversity of sperm physiology. <i>Molecular and Cellular Endocrinology</i> , 2020, 518, 111002.	1.6	0
96	Diversity of Calcium Channels Involved in Meiosis Resumption of Ascidian Oocytes. , 2001, , 47-53.		0