Christophe Arnoult

List of Publications by Year
in descending order

96	4,906	94433 37	106344 65
papers	citations	h-index	g-index

105	105	105	3412
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	From azoospermia to macrozoospermia, a phenotypic continuum due to mutations in the ZMYND15 gene. Asian Journal of Andrology, 2022, 24, 243.	1.6	4
2	Whole-exome sequencing improves the diagnosis and care of men with non-obstructive azoospermia. American Journal of Human Genetics, 2022, 109, 508-517.	6.2	41
3	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. Cells, 2022, 11, 118.	4.1	1
4	A recurrent ZP1 variant is responsible for oocyte maturation defect with degenerated oocytes in infertile females. Clinical Genetics, 2022, 102, 22-29.	2.0	5
5	Oligogenic heterozygous inheritance of sperm abnormalities in mouse. ELife, 2022, 11, .	6.0	12
6	The genetic architecture of morphological abnormalities of the sperm tail. Human Genetics, 2021, 140, 21-42.	3.8	130
7	Defect in the nuclear pore membrane glycoprotein 210-like gene is associated with extreme uncondensed sperm nuclear chromatin and male infertility: a case report. Human Reproduction, 2021, 36, 693-701.	0.9	20
8	Genetic analyses of a large cohort of infertile patients with globozoospermia, DPY19L2 still the main actor, GGN confirmed as a guest player. Human Genetics, 2021, 140, 43-57.	3.8	24
9	The sodium/proton exchanger <scp>SLC9C1</scp> (<scp>sNHE</scp>) is essential for human sperm motility and fertility. Clinical Genetics, 2021, 99, 684-693.	2.0	26
10	Identification and Characterization of the Most Common Genetic Variant Responsible for Acephalic Spermatozoa Syndrome in Men Originating from North Africa. International Journal of Molecular Sciences, 2021, 22, 2187.	4.1	5
11	A missense mutation in IFT74, encoding for an essential component for intraflagellar transport of Tubulin, causes asthenozoospermia and male infertility without clinical signs of Bardetâ€“Biedl syndrome. Human Genetics, 2021, 140, 1031-1043.	3.8	20
12	Bi-allelic truncating variants in CFAP206 cause male infertility in human and mouse. Human Genetics, 2021, 140, 1367-1377.	3.8	23
13	CFAP61 is required for sperm flagellum formation and male fertility in human and mouse. Development (Cambridge), 2021, 148, .	2.5	24
14	Complexity and diversity of sperm physiology. Molecular and Cellular Endocrinology, 2020, 518, 111002.	3.2	0
15	Paternal epigenetics: Mammalian sperm provide much more than DNA at fertilization. Molecular and Cellular Endocrinology, 2020, 518, 110964.	3.2	44
16	Deslorelin acetate implant induces transient sterility and behavior changes in male olive baboon (Papio anubis): A case study. Journal of Medical Primatology, 2020, 49, 344-348.	0.6	2
17	Genetics of teratozoospermia: Back to the head. Best Practice and Research in Clinical Endocrinology and Metabolism, 2020, 34, 101473.	4.7	32
18	Identification, Characterization and Synthesis of Walterospermin, a Sperm Motility Activator from the Egyptian Black Snake Walterinnesia aegyptia Venom. International Journal of Molecular Sciences, 2020, 21, 7786.	4.1	5

#	Article	IF	Citations
19	Diversity of RNA-Binding Proteins Modulating Post-Transcriptional Regulation of Protein Expression in the Maturing Mammalian Oocyte. Cells, 2020, 9, 662.	4.1	50
20	Pantoprazole, a protonâ€pump inhibitor, impairs human sperm motility and capacitation in vitro. Andrology, 2020, 8, 1795-1804.	3.5	9
21	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.	6.2	111
22	Biallelic variants in MAATS1 encoding CFAP91, a calmodulin-associated and spoke-associated complex protein, cause severe astheno-teratozoospermia and male infertility. Journal of Medical Genetics, 2020, 57, 708-716.	3.2	43
23	Whole exome sequencing of men with multiple morphological abnormalities of the sperm flagella reveals novel homozygous QRICH2 mutations. Clinical Genetics, 2019, 96, 394-401.	2.0	30
24	CFAP70 mutations lead to male infertility due to severe astheno-teratozoospermia. A case report. Human Reproduction, 2019, 34, 2071-2079.	0.9	43
25	Mutations in TTC29, Encoding an Evolutionarily Conserved Axonemal Protein, Result in Asthenozoospermia and Male Infertility. American Journal of Human Genetics, 2019, 105, 1148-1167.	6.2	44
26	Loss of the deglutamylase CCP5 perturbs multiple steps of spermatogenesis and leads to male infertility. Journal of Cell Science, 2019, 132, .	2.0	25
27	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.	6.2	113
28	Genetic causes of male infertility: snapshot on morphological abnormalities of the sperm flagellum. Basic and Clinical Andrology, 2019, 29, 2.	1.9	43
29	Enzymatic activity of mouse group X-sPLA2 improves inÂvitro production of preimplantation bovine embryos. Theriogenology, 2019, 131, 113-122.	2.1	1
30	Bi-allelic Mutations in TTC21A Induce Asthenoteratospermia in Humans and Mice. American Journal of Human Genetics, 2019, 104, 738-748.	6.2	103
31	The eggstraordinary story of how life begins. Molecular Reproduction and Development, 2019, 86, 4-19.	2.0	17
32	A recycling anti-transferrin receptor-1 monoclonal antibody as an efficient therapy for erythroleukemia through target up-regulation and antibody-dependent cytotoxic effector functions. MAbs, 2019, 11, 593-605.	5.2	17
33	The sperm-associated antigen 6 interactome and its role in spermatogenesis. Reproduction, 2019, 158, 183-199.	2.6	24
34	Creation of knock out and knock in mice by CRISPR/Cas9 to validate candidate genes for human male infertility, interest, difficulties and feasibility. Molecular and Cellular Endocrinology, 2018, 468, 70-80.	3.2	24
35	<scp>PATL</scp> 2 is a key actor of oocyte maturation whose invalidation causes infertility in women and mice. EMBO Molecular Medicine, 2018, 10, .	6.9	53
36	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.	6.2	121

#	Article	IF	Citations
37	Mutations in CFAP43 and CFAP44 cause male infertility and flagellum defects in Trypanosoma and human. Nature Communications, 2018, 9, 686.	12.8	173
38	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.	2.9	95
39	Lack of FcRn Impairs Natural Killer Cell Development and Functions in the Tumor Microenvironment. Frontiers in Immunology, 2018, 9, 2259.	4.8	28
40	AU040320 deficiency leads to disruption of acrosome biogenesis and infertility in homozygous mutant mice. Scientific Reports, 2018, 8, 10379.	3.3	13
41	Actiflagelin, a new sperm activator isolated from Walterinnesia aegyptia venom using phenotypic screening. Journal of Venomous Animals and Toxins Including Tropical Diseases, 2018, 24, 2.	1.4	11
42	Whole-exome sequencing identifies mutations in FSIP2 as a recurrent cause of multiple morphological abnormalities of the sperm flagella. Human Reproduction, 2018, 33, 1973-1984.	0.9	93
43	A Homozygous Ancestral SVA-Insertion-Mediated Deletion in WDR66 Induces Multiple Morphological Abnormalities of the Sperm Flagellum and Male Infertility. American Journal of Human Genetics, 2018, 103, 400-412.	6.2	81
44	Slo3 K+ channel blocker clofilium extends bull and mouse sperm-fertilizing competence. Reproduction, 2018, 156, 463-476.	2.6	7
45	<scp>SPINK</scp>2 deficiency causes infertility by inducing sperm defects in heterozygotes and azoospermia inÂhomozygotes. EMBO Molecular Medicine, 2017, 9, 1132-1149.	6.9	95
46	MAP6 interacts with Tctex1 and Ca_v2.2/Nâ€type calcium channels to regulate calcium signalling in neurons. European Journal of Neuroscience, 2017, 46, 2754-2767.	2.6	5
47	Genetic abnormalities leading to qualitative defects of sperm morphology or function. Clinical Genetics, 2017, 91, 217-232.	2.0	127
48	Measure of sperm DNA fragmentation (SDF): how, why and when?. Translational Andrology and Urology, 2017, 6, S588-S589.	1.4	1
49	Crucial Role for Immune Complexes but Not FcRn in Immunization against Antiâ€“TNF-Î± Antibodies after a Single Injection in Mice. Journal of Immunology, 2017, 199, 418-424.	0.8	16
50	Sun proteins and Dpy19l2 forming LINC-like links are critical for spermiogenesis. Biology Open, 2016, 5, 535-536.	1.2	7
51	Spermaurin, an La1-like peptide from the venom of the scorpionScorpio maurus palmatus, improves sperm motility and fertilization in different mammalian species. Molecular Human Reproduction, 2016, 23, 116-131.	2.8	18
52	Progesterone-induced Acrosome Exocytosis Requires Sequential Involvement of Calcium-independent Phospholipase A2Î² (iPLA2Î²) and Group X Secreted Phospholipase A2 (sPLA2). Journal of Biological Chemistry, 2016, 291, 3076-3089.	3.4	25
53	Patients with multiple morphological abnormalities of the sperm flagella due toDNAH1mutations have a good prognosis following intracytoplasmic sperm injection. Human Reproduction, 2016, 31, 1164-1172.	0.9	85
54	Whole-exome sequencing of familial cases of multiple morphological abnormalities of the sperm flagella (MMAF) reveals newDNAH1mutations. Human Reproduction, 2016, 31, 2872-2880.	0.9	96

#	Article	IF	Citations
55	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.	2.9	112
56	Commentary on "morphological characteristics and initial genetic study of multiple morphological anomalies of the flagella in China". Asian Journal of Andrology, 2016, 18, 812.	1.6	8
57	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. PLoS ONE, 2015, 10, e0118698.	2.5	37
58	Immune dysregulation, polyendocrinopathy, enteropathy, X-linked syndrome and recurrent intrauterine fetal death. Lancet, The, 2015, 385, 2120.	13.7	24
59	Teratozoospermia: spotlight on the main genetic actors in the human. Human Reproduction Update, 2015, 21, 455-485.	10.8	255
60	Dpy19l2-deficient globozoospermic sperm display altered genome packaging and DNA damage that compromises the initiation of embryo development. Molecular Human Reproduction, 2015, 21, 169-185.	2.8	61
61	Subcellular localization of phospholipase CÎ¶ in human sperm and its absence in DPY19L2-deficient sperm are consistent with its role in oocyte activation. Molecular Human Reproduction, 2015, 21, 157-168.	2.8	83
62	Mutations of the aurora kinase C gene causing macrozoospermia are the most frequent genetic cause of male infertility in Algerian men. Asian Journal of Andrology, 2015, 17, 68.	1.6	37
63	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.	6.2	328
64	The effect of group X secreted phospholipase A2 on fertilization outcome is specific and not mimicked by other secreted phospholipases A2 or progesterone. Biochimie, 2014, 99, 88-95.	2.6	7
65	Comparative testicular transcriptome of wild type and globozoospermic Dpy19l2 knock out mice. Basic and Clinical Andrology, 2013, 23, 7.	1.9	4
66	Fine Characterisation of a Recombination Hotspot at the DPY19L2 Locus and Resolution of the Paradoxical Excess of Duplications over Deletions in the General Population. PLoS Genetics, 2013, 9, e1003363.	3.5	25
67	Cacnb4 directly couples electrical activity to gene expression, a process defective in juvenile epilepsy. EMBO Journal, 2012, 31, 3730-3744.	7.8	57
68	Identification of a new recurrent Aurora kinase C mutation in both European and African men with macrozoospermia. Human Reproduction, 2012, 27, 3337-3346.	0.9	52
69	MLPA and sequence analysis of DPY19L2 reveals point mutations causing globozoospermia. Human Reproduction, 2012, 27, 2549-2558.	0.9	62
70	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.	2.5	144
71	A miniaturized planar patch-clamp system for transportable use. Biosensors and Bioelectronics, 2012, 32, 96-103.	10.1	4
72	Could modifications of signalling pathways activated after ICSI induce a potential risk of epigenetic defects?. International Journal of Developmental Biology, 2011, 55, 143-152.	0.6	22

#	Article	IF	Citations
73	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.	6.2	165
74	Group X secreted phospholipase A₂ specifically decreases sperm motility in mice. Journal of Cellular Physiology, 2011, 226, 2601-2609.	4.1	15
75	A new AURKC mutation causing macrozoospermia: implications for human spermatogenesis and clinical diagnosis. Molecular Human Reproduction, 2011, 17, 762-768.	2.8	65
76	The development of high quality seals for silicon patch-clamp chips. Biomaterials, 2010, 31, 7398-7410.	11.4	14
77	Snake venoms as a source of compounds modulating sperm physiology: Secreted phospholipases A2 from Oxyuranus scutellatus scutellatus impact sperm motility, acrosome reaction and in vitro fertilization in mice. Biochimie, 2010, 92, 826-836.	2.6	16
78	Group X phospholipase A2 is released during sperm acrosome reaction and controls fertility outcome in mice. Journal of Clinical Investigation, 2010, 120, 1415-1428.	8.2	65
79	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. Journal of Cellular Physiology, 2007, 212, 753-763.	4.1	46
80	Hourglass SiO2 coating increases the performance of planar patch-clamp. Journal of Biotechnology, 2006, 125, 142-154.	3.8	47
81	Contribution of the kinetics of G protein dissociation to the characteristic modifications of N-type calcium channel activity. Neuroscience Research, 2006, 56, 332-343.	1.9	11
82	Triadin (Trisk 95) Overexpression Blocks Excitation-Contraction Coupling in Rat Skeletal Myotubes. Journal of Biological Chemistry, 2005, 280, 39302-39308.	3.4	33
83	Junctate, an inositol 1,4,5-triphosphate receptor associated protein, is present in rodent sperm and binds TRPC2 and TRPC5 but not TRPC1 channels. Developmental Biology, 2005, 286, 326-337.	2.0	62
84	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.	5.2	116
85	Repositioning of charged I-II 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. European Journal of Neuroscience, 2004, 19, 1759-1772.	2.6	14
86	Biophysical and pharmacological characterization of spermatogenic Tâ€type calcium current in mice lacking the Ca V 3.1 (Î± 1G) calcium channel: Ca V 3.2 (Î± 1H) is the main functional calcium channel in wildâ€type spermatogenic cells. Journal of Cellular Physiology, 2004, 200, 116-124.	4.1	45
87	Identification and Localization of T-type Voltage-operated Calcium Channel Subunits in Human Male Germ Cells. Journal of Biological Chemistry, 2002, 277, 8449-8456.	3.4	62
88	Functional Interaction between Mouse Spermatogenic LVA and Thapsigargin-Modulated Calcium Channels. Developmental Biology, 2002, 252, 72-83.	2.0	7
89	Diversity of Calcium Channels Involved in Meiosis Resumption of Ascidian Oocytes. , 2001, , 47-53.		0
90	Ca²⁺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.	2.1	208

#	Article	IF	Citations
91	An Intimate Biochemistry: Egg-Regulated Acrosome Reactions of Mammalian Sperm. Advances in Developmental Biochemistry, 1999, 5, 199-233.	0.9	6
92	A Perspective on the Control of Mammalian Fertilization by Egg-Activated Ion Channels in Sperm: A Tale of Two Channels1. Biology of Reproduction, 1998, 59, 12-16.	2.7	177
93	A ryanodine-sensitive calcium store in ascidian eggs monitored by whole-cell patch-clamp recordings. Cell Calcium, 1997, 21, 93-101.	2.4	16
94	Novel Postfertilization Inward Ca2+Current in Ascidian Eggs Ensuring a Calcium Entry throughout Meiosis. Developmental Biology, 1996, 174, 322-334.	2.0	18
95	Cell Cycle-Related Fluctuations in Oocyte Surface Area of the Ascidian Ciona intestinalis after Meiosis Resumption. Developmental Biology, 1994, 166, 1-10.	2.0	11
96	Skeletal muscle ATP-sensitive K+ channels recorded from sarcolemmal blebs of split fibers: ATP inhibition is reduced by magnesium and ADP. Journal of Membrane Biology, 1991, 122, 165-175.	2.1	78