

Pradeep G Kumar

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1246265/publications.pdf>

Version: 2024-02-01

90
papers

1,495
citations

393982

19
h-index

377514

34
g-index

90
all docs

90
docs citations

90
times ranked

1624
citing authors

#	ARTICLE	IF	CITATIONS
1	Spermatogonial stem cells: A story of self-renewal and differentiation. <i>Frontiers in Bioscience - Landmark</i> , 2021, 26, 163-205.	3.0	14
2	Impact of semen-derived amyloid (SEVI) on sperm viability and motility: its implication in male reproductive fitness. <i>European Biophysics Journal</i> , 2019, 48, 659-671.	1.2	4
3	Retinoic acid signaling in regulation of meiosis during embryonic development in mice. <i>Genesis</i> , 2019, 57, e23327.	0.8	7
4	TRPA1 is selected as a semi-conserved channel during vertebrate evolution due to its involvement in spermatogenesis. <i>Biochemical and Biophysical Research Communications</i> , 2019, 512, 295-302.	1.0	11
5	Autoimmune Regulator Enhanced the Expression of Caspase-3 and Did Not Induce Massive Germ Cell Apoptosis in GC1-Spg Cells. <i>Cellular Physiology and Biochemistry</i> , 2019, 54, 40-52.	1.1	1
6	Silencing of dedicator of cytokinesis (<sc>DOCK</sc>180) obliterates pregnancy by interfering with decidualization due to blockage of nuclear entry of autoimmune regulator (<sc>AIRE</sc>). <i>American Journal of Reproductive Immunology</i> , 2018, 80, e12844.	1.2	5
7	Expression of protocadherin 11Yb (PCDH11Yb) in seminal germ cells is correlated with fertility status in men. <i>Reproduction, Fertility and Development</i> , 2017, 29, 2100.	0.1	8
8	Aberrant expression of TAR DNA binding protein-43 is associated with spermatogenic disorders in men. <i>Reproduction, Fertility and Development</i> , 2016, 28, 713.	0.1	11
9	Organization of planar rafts, caveolae and steroid receptors on spermatozoa during development. <i>Journal of Reproductive Health and Medicine</i> , 2016, 2, S27-S35.	0.3	0
10	Autoimmune Regulator (AIRE) Is Expressed in Spermatogenic Cells, and It Altered the Expression of Several Nucleic-Acid-Binding and Cytoskeletal Proteins in Germ Cell 1 Spermatogonial (GC1-spg) Cells. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 2686-2698.	2.5	10
11	Expression of Cnm1 and Its Association with Stemness, Cell Cycle, and Differentiation in Spermatogenic Cells in Mouse Testis. <i>Biology of Reproduction</i> , 2016, 95, 7-7.	1.2	14
12	Expression profiles of NPHP1 in the germ cells in the semen of men with male factor infertility. <i>Andrology</i> , 2015, 3, 685-693.	1.9	5
13	Aberrant Expression of Dynein light chain 1 (DYNL1) is Associated with Human Male Factor Infertility*. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 3185-3195.	2.5	13
14	Dramatic Changes in 67 miRNAs During Initiation of First Wave of Spermatogenesis in <i>Mus musculus</i> Testis: Global Regulatory Insights Generated by miRNA-mRNA Network Analysis1. <i>Biology of Reproduction</i> , 2014, 91, 69.	1.2	15
15	Antigenic homogeneity of male MÅ¼llerian gland (MG) secretory proteins of a caecilian amphibian with secretory proteins of the mammalian prostate gland and seminal vesicles: evidence for role of the caecilian MG as a male accessory reproductive gland. <i>Zoology</i> , 2014, 117, 319-328.	0.6	2
16	AIRE1A might be involved in cyclin B2 degradation in testicular lysates. <i>Biochemistry and Cell Biology</i> , 2011, 89, 411-422.	0.9	3
17	The Role of TRP Ion Channels in Testicular Function. <i>Advances in Experimental Medicine and Biology</i> , 2011, 704, 881-908.	0.8	16
18	Modulation of nicotinamide adenine dinucleotide phosphate oxidase activity through sequential posttranslational modifications of p22 phagocytic oxidase during capacitation and acrosome reaction in goat spermatozoa1. <i>Journal of Animal Science</i> , 2011, 89, 2995-3007.	0.2	8

#	ARTICLE	IF	CITATIONS
19	Blue Light Exposure Targets NADPH Oxidase to Plasma Membrane and Nucleus in Wheat Coleoptiles. <i>Journal of Plant Growth Regulation</i> , 2010, 29, 232-241.	2.8	5
20	Molecular characterization and expression analysis of BmNOX in two strains of <i>Bombyx mori</i> with contrasting viral resistance phenotype. <i>Archives of Insect Biochemistry and Physiology</i> , 2010, 73, 163-175.	0.6	13
21	Progesterone-induced reorganisation of NOX-2 components in membrane rafts is critical for sperm functioning in <i>Capra hircus</i> . <i>Andrologia</i> , 2010, 42, 356-365.	1.0	5
22	Superoxide radical level and superoxide dismutase activity changes in maturing mammalian spermatozoa. <i>Andrologia</i> , 2009, 23, 171-175.	1.0	23
23	Corrigendum to "Profiling of E-cadherin, β -catenin and Ca^{2+} in embryo-uterine interactions at implantation" [FEBS Lett. 580 (2006) 5653-5660]. <i>FEBS Letters</i> , 2009, 583, 595-595.	1.3	1
24	Thalidomide attenuates nitric oxide-driven angiogenesis by interacting with soluble guanylyl cyclase. <i>British Journal of Pharmacology</i> , 2009, 158, 1720-1734.	2.7	53
25	Distribution of N- and O-linked oligosaccharides on surface of spermatozoa from normal and infertile subjects. <i>Andrologia</i> , 2008, 40, 7-12.	1.0	19
26	Identification of a Soluble NADPH Oxidoreductase (BmNOX) with Antiviral Activities in the Gut Juice of <i>Bombyx mori</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2007, 71, 200-205.	0.6	50
27	Profiling of E-cadherin, β -catenin and Ca^{2+} in embryo-uterine interactions at implantation. <i>FEBS Letters</i> , 2006, 580, 5653-5660.	1.3	71
28	Fluorescence Resonance Energy Transfer Between Polyphenolic Compounds and Riboflavin Indicates a Possible Accessory Photoreceptor Function for Some Polyphenolic Compounds. <i>Photochemistry and Photobiology</i> , 2006, 82, 1358.	1.3	11
29	Impaired Crkl Expression Contributes to the Defective DNA Binding of Stat5b in Nonobese Diabetic Mice. <i>Diabetes</i> , 2006, 55, 734-741.	0.3	17
30	Mapping DNA-binding domains of the autoimmune regulator protein. <i>Biochemical and Biophysical Research Communications</i> , 2005, 327, 939-944.	1.0	46
31	Identification of non-mitochondrial NADPH oxidase and the spatio-temporal organization of its components in mouse spermatozoa. <i>Biochemical and Biophysical Research Communications</i> , 2005, 331, 476-483.	1.0	28
32	A Mutant Stat5b with Weaker DNA Binding Affinity Defines a Key Defective Pathway in Nonobese Diabetic Mice. <i>Journal of Biological Chemistry</i> , 2004, 279, 11553-11561.	1.6	33
33	Mifepristone (Ru486) Antagonizes Monocyte Chemotactic Protein-3 Down-Regulation at Early Mouse Pregnancy Revealing Immunomodulatory Events in Ru486 Induced Abortion. <i>American Journal of Reproductive Immunology</i> , 2004, 52, 8-18.	1.2	15
34	Formation and dynamic alterations of horizontal microdomains in sperm membranes during progesterone-induced acrosome reaction. <i>Biochemical and Biophysical Research Communications</i> , 2004, 315, 763-770.	1.0	6
35	Impaired E-cadherin expression in human spermatozoa in a male factor infertility subset signifies E-cadherin-mediated adhesion mechanisms operative in sperm-olemma interactions. <i>Biochemical and Biophysical Research Communications</i> , 2004, 316, 903-909.	1.0	13
36	17β -Estradiol induces nuclear translocation of CrkL at the window of embryo implantation. <i>Biochemical and Biophysical Research Communications</i> , 2004, 318, 103-112.	1.0	18

#	ARTICLE	IF	CITATIONS
37	Spatio-temporal organization of Vam6P and SNAP on mouse spermatozoa and their involvement in spermâ€“zona pellucida interactions. <i>Biochemical and Biophysical Research Communications</i> , 2004, 318, 148-155.	1.0	17
38	Direct involvement of hydrogen peroxide in curvature of wheat coleoptile in blue-light-treated and dark-grown coleoptiles. <i>Biochemical and Biophysical Research Communications</i> , 2004, 319, 1190-1196.	1.0	7
39	Molecular cloning and characterization of a novel gene family of four ancient conserved domain proteins (ACDP). <i>Gene</i> , 2003, 306, 37-44.	1.0	97
40	Population genetics and functions of the autoimmune regulator (AIRE). <i>Endocrinology and Metabolism Clinics of North America</i> , 2002, 31, 321-338.	1.2	33
41	Sperm disposal system in spermatid granuloma: a link with superoxide radicals. <i>Journal of Developmental and Physical Disabilities</i> , 2001, 24, 278-283.	3.6	9
42	Regional Variations in Thiol Distribution Pattern and Superoxide Dismutase Activity of the Male Reproductive Tract of the Rat Modulate the Transport of Spermatozoa through the Epididymis and Vas deferens. <i>Urologia Internationalis</i> , 2001, 66, 100-104.	0.6	1
43	The Autoimmune Regulator (AIRE) Is a DNA-binding Protein. <i>Journal of Biological Chemistry</i> , 2001, 276, 41357-41364.	1.6	153
44	Altered molecular dynamics and antioxidant status in the spermatozoa in testosterone-induced oligospermia in mouse. , 2000, 55, 316-325.		11
45	Increased Appearance of Inducible Nitric Oxide Synthase in the Uterus and Embryo at Implantation. <i>Nitric Oxide - Biology and Chemistry</i> , 2000, 4, 384-391.	1.2	43
46	NADPH Dependent superoxide generation in the ovary and uterus of mice during estrous cycle and early pregnancy. <i>Life Sciences</i> , 2000, 66, 1139-1146.	2.0	19
47	REGIONAL HETEROGENEITY IN INTRACELLULAR DISTRIBUTION OF SUPEROXIDE AND HYDROGEN PEROXIDE WITHIN THE SPERM AND ITS RELATION TO SPERM DEVELOPMENT. <i>Archives of Andrology</i> , 1999, 43, 113-121.	1.0	5
48	Effect of estradiol and selected antiestrogens on pro- and antioxidant pathways in mammalian uterus. <i>Contraception</i> , 1999, 60, 111-118.	0.8	25
49	Active Oxygen Species in Blue Light Mediated Signal Transduction in Coleoptile Tips. <i>Biochemical and Biophysical Research Communications</i> , 1999, 256, 293-298.	1.0	10
50	Acrosome reaction inducers impose alterations in repulsive strain and hydration barrier in human sperm membranes. <i>IUBMB Life</i> , 1998, 45, 227-235.	1.5	2
51	Superoxide Anion Radical Generation as a Temperature Stress Response in the Gills of Freshwater Catfish <i>Heteropneustes fossilis</i> : Role in Mucus Exudation Under Elevated Temperature. <i>Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology</i> , 1998, 119, 211-216.	0.5	5
52	A Genetic System Involving Superoxide Causes F1 Necrosis in Wheat (<i>T. aestivum</i> L.). <i>Biochemical and Biophysical Research Communications</i> , 1998, 248, 712-715.	1.0	22
53	Superoxide Anion Radical Mediated Dissection of Rat Sperm: An in Vitro Study. <i>Archives of Andrology</i> , 1997, 39, 101-104.	1.0	1
54	Vasectomy-Induced Superoxide Dismutase Inactivation in the Male Reproductive Tract of Rat: A Prerequisite for Spermatid Granuloma Formation. <i>Urologia Internationalis</i> , 1997, 59, 23-25.	0.6	2

#	ARTICLE	IF	CITATIONS
55	Free Radical-Induced Liquefaction of Ejaculated Human Semen: A New Dimension in Semen Biochemistry. Archives of Andrology, 1997, 38, 107-111.	1.0	14
56	Free Radical Mediated Sperm-Load Management in the Vagina of Rats. Archives of Andrology, 1997, 39, 127-133.	1.0	0
57	Neutralization of pregnancy-preventing activity of cabergoline, a dopamine agonist with progesterone. Theriogenology, 1997, 48, 241-246.	0.9	3
58	Regulation of Superoxide Anion Radicalâ€™s Superoxide Dismutase System in the Avian Thyroid by TSH with Reference to Thyroid Hormonogenesis. Biochemical and Biophysical Research Communications, 1997, 239, 212-216.	1.0	6
59	Superoxide Anion Radical Production as a Cadmium-Mediated Mechanism of Toxicity in Avian Thyroid: An Electron Spin Resonance Study by Spin Trapping. Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology, 1997, 118, 89-95.	0.5	6
60	Characterization of a uterine luminal fluid protein ULF-250 using N-terminal microsequencing and RT-PCR identifies a novel estrogen-regulated gene in the rat uterus. FEBS Letters, 1996, 399, 33-36.	1.3	0
61	Metal Binding and Resultant Loss of Phototoxicity of Î±-Terthienyl: Metal Detoxification Versus Î³-Terthienyl Inactivation. Bulletin of Environmental Contamination and Toxicology, 1996, 56, 183-189.	1.3	5
62	Transient Thiol Expression and Thiol-Disulfide Cluster-Receptor Communications: A Molecular Basis for Blastocyst-Uterine Interactions during Implantation. Biochemical and Biophysical Research Communications, 1994, 198, 150-157.	1.0	3
63	Abnormal Physical Architecture of the Lipophilic Domains of Human Sperm Membrane in Oligospermia: A Logical Cause for Low Fertility Profiles. Biochemical and Biophysical Research Communications, 1994, 198, 266-273.	1.0	15
64	Photophysical Alterations of Erythrocyte Membrane by 4,5,8-Trimethylpsoralen: Membrane Response Towards Psoralen Phototherapy. Biochemical and Biophysical Research Communications, 1994, 199, 1413-1421.	1.0	2
65	Free Radical Bombing of Spermatozoa in Spermatid Granuloma: An Attempt to Prevent Autoimmune Switch-on. Biochemical and Biophysical Research Communications, 1994, 201, 472-477.	1.0	6
66	Involvement of Superoxide Radical in Signal Transduction Regulating Stomatal Movements. Biochemical and Biophysical Research Communications, 1994, 205, 30-37.	1.0	22
67	The topography of thiol distribution on sperm surface: A sensitive marker for human fertility diagnosis. Clinica Chimica Acta, 1994, 225, 83-84.	0.5	0
68	Carbohydrate induced modulation of cell membrane I. Interaction of sialic acid with peripheral blood lymphocytes: A spin label study. FEBS Letters, 1994, 354, 217-219.	1.3	6
69	Effect of ultraviolet activated alfa-terthienyl upon anal gill membrane of mosquito larvae: a spin label study. Biochemical Systematics and Ecology, 1993, 21, 441-447.	0.6	3
70	Programmed Lipid Peroxidation of Biomembranes Generating Kinked Phospholipids Permitting Local Molecular Mobility: A Peroxidative Theory of Fluidity Management. Biochemical and Biophysical Research Communications, 1993, 195, 574-580.	1.0	16
71	Exorbitantly Enhanced Protein Gyration and Erroneous Membrane Modification Programs in Spermatozoa after Vasectomy: A Biophysical Basis for Low Infertility Revival after Vasectomy. Biochemical and Biophysical Research Communications, 1993, 197, 450-456.	1.0	8
72	ABA - induced â€™lipid meltingâ€™ and its reversal by umbelliferone in the plasmalemma of guard cell protoplasts: A break through in plant hormone-receptor binding and hormone action. Biochemical and Biophysical Research Communications, 1992, 186, 652-658.	1.0	8

#	ARTICLE	IF	CITATIONS
73	Generation of superoxide anion radical by β -terthienyl in the anal gills of mosquito larvae <i>Aedes aegypti</i> : A new aspect in β -terthienyl phototoxicity. <i>Archives of Insect Biochemistry and Physiology</i> , 1992, 19, 261-270.	0.6	7
74	Enhanced axial symmetry at the Fe ³⁺ -heme center of peroxidase by ascorbate: A basis for the ascorbate-dependent peroxidase action. <i>Biochemical and Biophysical Research Communications</i> , 1991, 180, 597-601.	1.0	0
75	Over-expression of superoxide dismutase and lack of surface-thiols in spermatozoa: Inherent defects in oligospermia. <i>Biochemical and Biophysical Research Communications</i> , 1991, 174, 510-517.	1.0	16
76	Superoxide dismutase activity regulation by spermine: A new dimension in spermine biochemistry and sperm development. <i>Biochemical and Biophysical Research Communications</i> , 1991, 177, 420-426.	1.0	7
77	Superoxide dismutase activation in thyroid and suppression in adrenal Novel pituitary regulatory routes. <i>FEBS Letters</i> , 1991, 282, 310-312.	1.3	6
78	Superoxide dismutase inactivation by β -terthienyl: A novel observation in thiophene photochemistry. <i>Pesticide Biochemistry and Physiology</i> , 1991, 41, 53-59.	1.6	6
79	Superoxide dismutase in the anal gills of the mosquito larvae of <i>Aedes aegypti</i> : Its inhibition by β -terthienyl. <i>Archives of Insect Biochemistry and Physiology</i> , 1991, 16, 249-255.	0.6	28
80	Activation of iodine into a free-radical intermediate by superoxide: A physiologically significant step in the iodination of tyrosine. <i>Biochemical and Biophysical Research Communications</i> , 1990, 170, 1026-1034.	1.0	9
81	Superoxide anion radical induces lipid phase transitions that mimic temperature-induced phase-transition phenomenon of membrane lipids. <i>Biochemical and Biophysical Research Communications</i> , 1990, 172, 601-606.	1.0	3
82	Discovery of a novel and alternate hydrogen peroxide generation machinery in the mammalian thyroid gland that modulates iodination of tyrosine. <i>Biochemical and Biophysical Research Communications</i> , 1990, 169, 1-7.	1.0	11
83	Superoxide dismutase as a regulatory switch in mammalian testicular steroidogenesis. <i>Biochemical and Biophysical Research Communications</i> , 1990, 173, 302-308.	1.0	19
84	Powerful anti-sperm motility action of cobaltous ion and its recovery by a sulfhydryl compound. <i>Contraception</i> , 1990, 41, 633-639.	0.8	15
85	The involvement of surface sugars of mammalian spermatozoa in epididymal maturation and in vitro sperm-zona recognition: Die Beteiligung von OberflÄchen-Zuckern von SÄuger-Spermatozoen auf die Nebenhodenreifung und die in vitro Spermatozoen-Zona-Erkennung. <i>Andrologia</i> , 1990, 22, 184-194.	1.0	18
86	Histochemical study of superoxide dismutase in the ovary of the rat during the oestrous cycle. <i>Reproduction</i> , 1989, 86, 583-587.	1.1	34
87	A possible role of superoxide anion radical in the process of blastocyst implantation in <i>Mus musculus</i> . <i>Biochemical and Biophysical Research Communications</i> , 1989, 161, 762-770.	1.0	36
88	Coupling of a proton pump with superoxide radical-superoxide dismutase system in maturing mammalian spermatozoa and its association with sperm motility. <i>Biochemical and Biophysical Research Communications</i> , 1989, 161, 771-775.	1.0	5
89	The effect of some of the polyphenolic compounds on sperm motility : A structure-activity relationship. <i>Contraception</i> , 1989, 39, 531-539.	0.8	10
90	Changes in the levels of superoxide anion radical and superoxide dismutase during the estrous cycle of <i>Rattus norvegicus</i> and induction of superoxide dismutase in rat ovary by lutropin. <i>Biochemical and Biophysical Research Communications</i> , 1988, 157, 146-153.	1.0	106