

Pradeep G Kumar

List of Publications by Year in descending order

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90
papers

1,495
citations

394421
19
h-index

377865
34
g-index

90
all docs

90
docs citations

90
times ranked

1624
citing authors

#	ARTICLE	IF	CITATIONS
1	The Autoimmune Regulator (AIRE) Is a DNA-binding Protein. <i>Journal of Biological Chemistry</i> , 2001, 276, 41357-41364.	3.4	153
2	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.	2.1	106
3	Molecular cloning and characterization of a novel gene family of four ancient conserved domain proteins (ACDP). <i>Gene</i> , 2003, 306, 37-44.	2.2	97
4	Profiling of E-cadherin, β -catenin and Ca ²⁺ in embryo-uterine interactions at implantation. <i>FEBS Letters</i> , 2006, 580, 5653-5660.	2.8	71
5	Thalidomide attenuates nitric oxide-driven angiogenesis by interacting with soluble guanylyl cyclase. <i>British Journal of Pharmacology</i> , 2009, 158, 1720-1734.	5.4	53
6	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.	1.3	50
7	Mapping DNA-binding domains of the autoimmune regulator protein. <i>Biochemical and Biophysical Research Communications</i> , 2005, 327, 939-944.	2.1	46
8	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.	2.7	43
9	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.	2.1	36
10	Histochemical study of superoxide dismutase in the ovary of the rat during the oestrous cycle. <i>Reproduction</i> , 1989, 86, 583-587.	2.6	34
11	Population genetics and functions of the autoimmune regulator (AIRE). <i>Endocrinology and Metabolism Clinics of North America</i> , 2002, 31, 321-338.	3.2	33
12	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.	3.4	33
13	Superoxide dismutase in the anal gills of the mosquito larvae of <i>Aedes aegypti</i> : Its inhibition by γ -terthienyl. <i>Archives of Insect Biochemistry and Physiology</i> , 1991, 16, 249-255.	1.5	28
14	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.	2.1	28
15	Effect of estradiol and selected antiestrogens on pro- and antioxidant pathways in mammalian uterus. <i>Contraception</i> , 1999, 60, 111-118.	1.5	25
16	Superoxide radical level and superoxide dismutase activity changes in maturing mammalian spermatozoa. <i>Andrologia</i> , 2009, 23, 171-175.	2.1	23
17	Involvement of Superoxide Radical in Signal Transduction Regulating Stomatal Movements. <i>Biochemical and Biophysical Research Communications</i> , 1994, 205, 30-37.	2.1	22
18	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.	2.1	22

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19	Superoxide dismutase as a regulatory switch in mammalian testicular steroidogenesis. Biochemical and Biophysical Research Communications, 1990, 173, 302-308.	2.1	19
20	NADPH Dependent superoxide generation in the ovary and uterus of mice during estrous cycle and early pregnancy. Life Sciences, 2000, 66, 1139-1146.	4.3	19
21	Distribution of N- and O-linked oligosaccharides on surface of spermatozoa from normal and infertile subjects. Andrologia, 2008, 40, 7-12.	2.1	19
22	17 β -Estradiol induces nuclear translocation of CrkL at the window of embryo implantation. Biochemical and Biophysical Research Communications, 2004, 318, 103-112.	2.1	18
23	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. Andrologia, 1990, 22, 184-194.	2.1	18
24	Spatio-temporal organization of Vam6P and SNAP on mouse spermatozoa and their involvement in spermâ€“zona pellucida interactions. Biochemical and Biophysical Research Communications, 2004, 318, 148-155.	2.1	17
25	Impaired Crkl Expression Contributes to the Defective DNA Binding of Stat5b in Nonobese Diabetic Mice. Diabetes, 2006, 55, 734-741.	0.6	17
26	Over-expression of superoxide dismutase and lack of surface-thiols in spermatozoa: Inherent defects in oligospermia. Biochemical and Biophysical Research Communications, 1991, 174, 510-517.	2.1	16
27	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.	2.1	16
28	The Role of TRP Ion Channels in Testicular Function. Advances in Experimental Medicine and Biology, 2011, 704, 881-908.	1.6	16
29	Powerful anti-sperm motility action of cobaltous ion and its recovery by a sulfhydryl compound. Contraception, 1990, 41, 633-639.	1.5	15
30	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.	2.1	15
31	Mifepristone (Ru486) Antagonizes Monocyte Chemotactic Protein-3 Down-Regulation at Early Mouse Pregnancy Revealing Immunomodulatory Events in Ru486 Induced Abortion. American Journal of Reproductive Immunology, 2004, 52, 8-18.	1.2	15
32	Dramatic Changes in 67 miRNAs During Initiation of First Wave of Spermatogenesis in Mus musculus Testis: Global Regulatory Insights Generated by miRNA-mRNA Network Analysis1. Biology of Reproduction, 2014, 91, 69.	2.7	15
33	Free Radical-Induced Liquefaction of Ejaculated Human Semen: A New Dimension in Semen Biochemistry. Archives of Andrology, 1997, 38, 107-111.	1.0	14
34	Expression of Cnnm1 and Its Association with Stemness, Cell Cycle, and Differentiation in Spermatogenic Cells in Mouse Testis. Biology of Reproduction, 2016, 95, 7-7.	2.7	14
35	Spermatogonial stem cells: A story of self-renewal and differentiation. Frontiers in Bioscience - Landmark, 2021, 26, 163-205.	3.0	14
36	Impaired E-cadherin expression in human spermatozoa in a male factor infertility subset signifies E-cadherin-mediated adhesion mechanisms operative in spermâ€“oolemma interactions. Biochemical and Biophysical Research Communications, 2004, 316, 903-909.	2.1	13

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37	Molecular characterization and expression analysis of BmNOX in two strains of <i>Bombyx mori</i> with contrasting viral resistance phenotype. Archives of Insect Biochemistry and Physiology, 2010, 73, 163-175.	1.5	13
38	Aberrant Expression of Dynein light chain 1 (DYNLT1) is Associated with Human Male Factor Infertility*. Molecular and Cellular Proteomics, 2015, 14, 3185-3195.	3.8	13
39	Discovery of a novel and alternate hydrogen peroxide generation machinery in the mammalian thyroid gland that modulates iodination of tyrosine. Biochemical and Biophysical Research Communications, 1990, 169, 1-7.	2.1	11
40	Altered molecular dynamics and antioxidant status in the spermatozoa in testosterone-induced oligospermia in mouse. , 2000, 55, 316-325.		11
41	Fluorescence Resonance Energy Transfer Between Polyphenolic Compounds and Riboflavin Indicates a Possible Accessory Photoreceptor Function for Some Polyphenolic Compounds. Photochemistry and Photobiology, 2006, 82, 1358.	2.5	11
42	Aberrant expression of TAR DNA binding protein-43 is associated with spermatogenic disorders in men. Reproduction, Fertility and Development, 2016, 28, 713.	0.4	11
43	TRPA1 is selected as a semi-conserved channel during vertebrate evolution due to its involvement in spermatogenesis. Biochemical and Biophysical Research Communications, 2019, 512, 295-302.	2.1	11
44	The effect of some of the polyphenolic compounds on sperm motility : A structure-activity relationship. Contraception, 1989, 39, 531-539.	1.5	10
45	Active Oxygen Species in Blue Light Mediated Signal Transduction in Coleoptile Tips. Biochemical and Biophysical Research Communications, 1999, 256, 293-298.	2.1	10
46	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. Molecular and Cellular Proteomics, 2016, 15, 2686-2698.	3.8	10
47	Activation of iodine into a free-radical intermediate by superoxide: A physiologically significant step in the iodination of tyrosine. Biochemical and Biophysical Research Communications, 1990, 170, 1026-1034.	2.1	9
48	Sperm disposal system in spermatid granuloma: a link with superoxide radicals. Journal of Developmental and Physical Disabilities, 2001, 24, 278-283.	3.6	9
49	ABA - induced lipid melting 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.	2.1	8
50	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.	2.1	8
51	Modulation of nicotinamide adenine dinucleotide phosphate oxidase activity through sequential posttranslational modifications of p22 phagocytic oxidase during capacitation and acrosome reaction in goat spermatozoa. Journal of Animal Science, 2011, 89, 2995-3007.	0.5	8
52	Expression of protocadherin 11Yb (PCDH11Yb) in seminal germ cells is correlated with fertility status in men. Reproduction, Fertility and Development, 2017, 29, 2100.	0.4	8
53	Superoxide dismutase activity regulation by spermine: A new dimension in spermine biochemistry and sperm development. Biochemical and Biophysical Research Communications, 1991, 177, 420-426.	2.1	7
54	Generation of superoxide anion radical by γ -terthienyl in the anal gills of mosquito larvae <i>Aedes aegypti</i> : A new aspect in γ -terthienyl phototoxicity. Archives of Insect Biochemistry and Physiology, 1992, 19, 261-270.	1.5	7

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55	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.	2.1	7
56	Retinoic acid signaling in regulation of meiosis during embryonic development in mice. <i>Genesis</i> , 2019, 57, e23327.	1.6	7
57	Superoxide dismutase activation in thyroid and suppression in adrenal Novel pituitary regulatory routes. <i>FEBS Letters</i> , 1991, 282, 310-312.	2.8	6
58	Superoxide dismutaseâ€™Inactivation by Î±-terthienyl: A novel observation in thiophene photochemistry. <i>Pesticide Biochemistry and Physiology</i> , 1991, 41, 53-59.	3.6	6
59	Free Radical Bombing of Spermatozoa in Spermatic Granuloma: An Attempt to Prevent Autoimmune Switch-on. <i>Biochemical and Biophysical Research Communications</i> , 1994, 201, 472-477.	2.1	6
60	Carbohydrate induced modulation of cell membrane I. Interaction of sialic acid with peripheral blood lymphocytes: A spin label study. <i>FEBS Letters</i> , 1994, 354, 217-219.	2.8	6
61	Regulation of Superoxide Anion Radicalâ€™Superoxide Dismutase System in the Avian Thyroid by TSH with Reference to Thyroid Hormonogenesis. <i>Biochemical and Biophysical Research Communications</i> , 1997, 239, 212-216.	2.1	6
62	Superoxide Anion Radical Production as a Cadmium-Mediated Mechanism of Toxicity in Avian Thyroid: An Electron Spin Resonance Study by Spin Trapping. <i>Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology</i> , 1997, 118, 89-95.	0.5	6
63	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.	2.1	6
64	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.	2.1	5
65	Metal Binding and Resultant Loss of Phototoxicity of Î±-Terthienyl: Metal Detoxification Versus Î±-Terthienyl Inactivation. <i>Bulletin of Environmental Contamination and Toxicology</i> , 1996, 56, 183-189.	2.7	5
66	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
67	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
68	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.	5.1	5
69	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.	2.1	5
70	Expression profiles of NPHP1 in the germ cells in the semen of men with male factor infertility. <i>Andrology</i> , 2015, 3, 685-693.	3.5	5
71	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
72	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.	2.2	4

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73	Superoxide anion radical induces lipid phase transitions that mimic temperature-induced phase-transition phenomenon of membrane lipids. Biochemical and Biophysical Research Communications, 1990, 172, 601-606.	2.1	3
74	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.	1.3	3
75	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.	2.1	3
76	Neutralization of pregnancy-preventing activity of cabergoline, a dopamine agonist with progesterone. Theriogenology, 1997, 48, 241-246.	2.1	3
77	AIRE1A might be involved in cyclin B2 degradation in testicular lysates. Biochemistry and Cell Biology, 2011, 89, 411-422.	2.0	3
78	Photophysical Alterations of Erythrocyte Membrane by 4,5,8-Trimethylpsoralen: Membrane Response Towards Psoralen Phototherapy. Biochemical and Biophysical Research Communications, 1994, 199, 1413-1421.	2.1	2
79	Vasectomy-Induced Superoxide Dismutase Inactivation in the Male Reproductive Tract of Rat: A Prerequisite for Spermatid Granuloma Formation. Urologia Internationalis, 1997, 59, 23-25.	1.3	2
80	Acrosome reaction inducers impose alterations in repulsive strain and hydration barrier in human sperm membranes. IUBMB Life, 1998, 45, 227-235.	3.4	2
81	Antigenic homogeneity of male Müllerian 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. Zoology, 2014, 117, 319-328.	1.2	2
82	Superoxide Anion Radical Mediated Dissection of Rat Sperm: An in Vitro Study. Archives of Andrology, 1997, 39, 101-104.	1.0	1
83	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. Urologia Internationalis, 2001, 66, 100-104.	1.3	1
84	Corrigendum to "Profiling of E-cadherin, Î-catenin and Ca ²⁺ in embryo-uterine interactions at implantation" [FEBS Lett. 580 (2006) 5653-5660]. FEBS Letters, 2009, 583, 595-595.	2.8	1
85	Autoimmune Regulator Enhanced the Expression of Caspase-3 and Did Not Induce Massive Germ Cell Apoptosis in GC1-Spg Cells. Cellular Physiology and Biochemistry, 2019, 54, 40-52.	1.6	1
86	Enhanced axial symmetry at the Fe ³⁺ -heme center of peroxidase by ascorbate: A basis for the ascorbate-dependent peroxidase action. Biochemical and Biophysical Research Communications, 1991, 180, 597-601.	2.1	0
87	The topography of thiol distribution on sperm surface: A sensitive marker for human fertility diagnosis. Clínica Chimica Acta, 1994, 225, 83-84.	1.1	0
88	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.	2.8	0
89	Free Radical Mediated Sperm-Load Management in the Vagina of Rats. Archives of Andrology, 1997, 39, 127-133.	1.0	0
90	Organization of planar rafts, caveolae and steroid receptors on spermatozoa during development. Journal of Reproductive Health and Medicine, 2016, 2, S27-S35.	0.3	0