LuÃ-s Rato

List of Publications by Year
in descending order

50 papers	2,272 citations	218677 26 h-index	302126 39 g-index
52 all docs	52 docs citations	52 times ranked	2356 citing authors

#	Article	IF	Citations
1	Metabolic regulation is important for spermatogenesis. Nature Reviews Urology, 2012, 9, 330-338.	3.8	329
2	Molecular mechanisms beyond glucose transport in diabetes-related male infertility. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 626-635.	3.8	185
3	Hormonal control of Sertoli cell metabolism regulates spermatogenesis. Cellular and Molecular Life Sciences, 2013, 70, 777-793.	5.4	161
4	Highâ€energy diets may induce a preâ€diabetic state altering testicular glycolytic metabolic profile and male reproductive parameters. Andrology, 2013, 1, 495-504.	3.5	142
5	Pre-diabetes alters testicular PGC1-Î±/SIRT3 axis modulating mitochondrial bioenergetics and oxidative stress. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 335-344.	1.0	122
6	Highâ€energy diets: a threat for male fertility?. Obesity Reviews, 2014, 15, 996-1007.	6.5	110
7	Effect of insulin deprivation on metabolism and metabolism-associated gene transcript levels of in vitro cultured human Sertoli cells. Biochimica Et Biophysica Acta - General Subjects, 2012, 1820, 84-89.	2.4	108
8	Tubular Fluid Secretion in the Seminiferous Epithelium: Ion Transporters and Aquaporins in Sertoli Cells. Journal of Membrane Biology, 2010, 236, 215-224.	2.1	100
9	Metabolic modulation induced by oestradiol and DHT in immature rat Sertoli cells culturedin vitro. Bioscience Reports, 2012, 32, 61-69.	2.4	91
10	Influence of 5Î±-dihydrotestosterone and 17Î²-estradiol on human Sertoli cells metabolism. Journal of Developmental and Physical Disabilities, 2011, 34, e612-e620.	3.6	82
11	Fertility and Sperm Quality in the Aging Male. Current Pharmaceutical Design, 2017, 23, 4429-4437.	1.9	74
12	Melatonin alters the glycolytic profile of Sertoli cells: implications for male fertility. Molecular Human Reproduction, 2014, 20, 1067-1076.	2.8	70
13	White tea consumption restores sperm quality in prediabetic rats preventing testicular oxidative damage. Reproductive BioMedicine Online, 2015, 31, 544-556.	2.4	66
14	Control of Sertoli cell metabolism by sex steroid hormones is mediated through modulation in glycolysis-related transporters and enzymes. Cell and Tissue Research, 2013, 354, 861-868.	2.9	52
15	Testosterone deficiency induced by progressive stages of diabetes mellitus impairs glucose metabolism and favors glycogenesis in mature rat Sertoli cells. International Journal of Biochemistry and Cell Biology, 2015, 66, 1-10.	2.8	50
16	Testicular Metabolic Reprogramming in Neonatal Streptozotocin-Induced Type 2 Diabetic Rats Impairs Glycolytic Flux and Promotes Glycogen Synthesis. Journal of Diabetes Research, 2015, 2015, 1-13.	2.3	43
17	Regulation of apoptotic signaling pathways by 5Î±-dihydrotestosterone and 17Î²-estradiol in immature rat Sertoli cells. Journal of Steroid Biochemistry and Molecular Biology, 2013, 135, 15-23.	2.5	41
18	A switch from high-fat to normal diet does not restore sperm quality but prevents metabolic syndrome. Reproduction, 2019, 158, 377-387.	2.6	40

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19	The Action of Polyphenols in Diabetes Mellitus and Alzheimer's Disease: A Common Agent for Overlapping Pathologies. Current Neuropharmacology, 2019, 17, 590-613.	2.9	38
20	White tea intake prevents prediabetes-induced metabolic dysfunctions in testis and epididymis preserving sperm quality. Journal of Nutritional Biochemistry, 2016, 37, 83-93.	4.2	35
21	Melatonin and Male Reproductive Health: Relevance of Darkness and Antioxidant Properties. Current Molecular Medicine, 2015, 15, 299-311.	1.3	35
22	Regucalcin is broadly expressed in male reproductive tissues and is a new androgen-target gene in mammalian testis. Reproduction, 2011, 142, 447-456.	2.6	34
23	White tea consumption improves cardiac glycolytic and oxidative profile of prediabetic rats. Journal of Functional Foods, 2015, 14, 102-110.	3.4	32
24	Diet during early life defines testicular lipid content and sperm quality in adulthood. American Journal of Physiology - Endocrinology and Metabolism, 2020, 319, E1061-E1073.	3.5	28
25	New insights on hormones and factors that modulate Sertoli cell metabolism. Histology and Histopathology, 2016, 31, 499-513.	0.7	28
26	Insulin Deprivation Decreases Caspase-Dependent Apoptotic Signaling in Cultured Rat Sertoli Cells. ISRN Urology, 2013, 2013, 1-8.	1.5	26
27	Obesogens and male fertility. Obesity Reviews, 2017, 18, 109-125.	6.5	25
28	Sirtuins: Novel Players in Male Reproductive Health. Current Medicinal Chemistry, 2016, 23, 1084-1099.	2.4	24
29	Inheritable testicular metabolic memory of high-fat diet causes transgenerational sperm defects in mice. Scientific Reports, 2021, 11, 9444.	3.3	20
30	The effects of the obesogen tributyltin on the metabolism of Sertoli cells cultured ex vivo. Archives of Toxicology, 2018, 92, 601-610.	4.2	15
31	Inherited Metabolic Memory of Highâ€Fat Diet Impairs Testicular Fatty Acid Content and Sperm Parameters. Molecular Nutrition and Food Research, 2022, 66, e2100680.	3.3	12
32	The Impact of Endocrine-Disrupting Chemicals in Male Fertility: Focus on the Action of Obesogens. Journal of Xenobiotics, 2021, 11, 163-196.	6.7	9
33	Testicular â€œInherited Metabolic Memoryâ€•of Ancestral High-Fat Diet Is Associated with Sperm sncRNA Content. Biomedicines, 2022, 10, 909.	3.2	8
34	Knockout of MCT1 results in total absence of spermatozoa, sex hormones dysregulation, and morphological alterations in the testicular tissue. Cell and Tissue Research, 2019, 378, 333-339.	2.9	7
35	Plasmatic Oxidative and Metabonomic Profile of Patients with Different Degrees of Biliary Acute Pancreatitis Severity. Antioxidants, 2021, 10, 988.	5.1	7
36	Male Infertility in the XXI Century: Are Obesogens to Blame?. International Journal of Molecular Sciences, 2022, 23, 3046.	4.1	7

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37	Role of Reactive Oxygen Species in Diabetes-Induced Male Reproductive Dysfunction. , 2019, , 135-147.		6
38	White Tea Intake Abrogates Markers of Streptozotocin-Induced Prediabetes Oxidative Stress in Rat Lungsâ€™. Molecules, 2021, 26, 3894.	3.8	5
39	Is Technical-Grade Chlordane an Obesogen?. Current Medicinal Chemistry, 2021, 28, 548-568.	2.4	2
40	Sperm Maturation as a Possible Target of Obesogens. Immunology, Endocrine and Metabolic Agents in Medicinal Chemistry, 2017, 17, .	0.5	2
41	Energetics of the Male Reproduction. , 2018, , 451-457.		1
42	Editorial: The Aging Male: Physiology, Pathophysiology, and Therapeutic Perspectives. Current Pharmaceutical Design, 2017, 23, 4427-4428.	1.9	0
43	Evaluation of oxidative stress in acute pancreatitis. Pancreatology, 2018, 18, S167-S168.	1.1	0
44	Pharmacological Relevance of Novel Biomarkers Associated with Diabetes-mellitus Related Infertility. , 2016, , 114-194.		0
45	Biochemical Changes in the Reproductive Function of the Aging Male. , 2017, , 389-411.		0
46	Environmental Cues and Sperm Quality. , 2017, , 360-388.		0
47	Testicular Cancer, Erectile Dysfunction and Male Reproductive Health. , 2017, , 291-325.		0
48	Biochemistry Behind the Journey of Spermatozoa Through the Female Reproductive Tract. , 2017, , 257-290.		0
49	Dietary Switch from High Fat Diet to Normal Diet During Early Adulthood Does Not Restore Sperm Quality But Prevents Onset of the Metabolic Syndrome. SSRN Electronic Journal, 0, , .	0.4	0
50	High-Fat Diet Promotes a Pro-Inflammatory Environment in Testis and Inhibits Antioxidant Defenses in the Progeny. Medical Sciences Forum, 2020, 2, .	0.5	0