Jiaur R Gayen

List of Publications by Year
in descending order

95	2,274	186265 28	265206 42
papers	citations	h-index	g-index

96	96	96	2907
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Brain PPAR-Î³ promotes obesity and is required for the insulinâ€“sensitizing effect of thiazolidinediones. Nature Medicine, 2011, 17, 618-622.	30.7	214
2	Catecholamine Releaseâ€“Inhibitory Peptide Catestatin (Chromogranin A 352â€“372). Circulation, 2007, 115, 2271-2281.	1.6	105
3	Autophagy in ovary and polycystic ovary syndrome: role, dispute and future perspective. Autophagy, 2021, 17, 2706-2733.	9.1	99
4	A Novel Pathway of Insulin Sensitivity in Chromogranin A Null Mice. Journal of Biological Chemistry, 2009, 284, 28498-28509.	3.4	87
5	Formulation optimization of Docetaxel loaded self-emulsifying drug delivery system to enhance bioavailability and anti-tumor activity. Scientific Reports, 2016, 6, 26895.	3.3	78
6	Cathepsin L Colocalizes with Chromogranin A in Chromaffin Vesicles to Generate Active Peptides. Endocrinology, 2009, 150, 3547-3557.	2.8	67
7	Naringin ameliorates type 2 diabetes mellitus-induced steatohepatitis by inhibiting RAGE/NF-ÎºB mediated mitochondrial apoptosis. Life Sciences, 2020, 257, 118118.	4.3	62
8	Global Disturbances in Autonomic Function Yield Cardiovascular Instability and Hypertension in the Chromogranin A Null Mouse. Endocrinology, 2009, 150, 5027-5035.	2.8	60
9	Pancreastatin-Dependent Inflammatory Signaling Mediates Obesity-Induced Insulin Resistance. Diabetes, 2015, 64, 104-116.	0.6	59
10	Synthesis of novel Î²-carboline based chalcones with high cytotoxic activity against breast cancer cells. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 2820-2824.	2.2	53
11	Proteolytic Cleavage of Human Chromogranin A Containing Naturally Occurring Catestatin Variants: Differential Processing at Catestatin Region by Plasmin. Endocrinology, 2008, 149, 749-757.	2.8	50
12	MicroRNA-22 and promoter motif polymorphisms at the Chga locus in genetic hypertension: functional and therapeutic implications for gene expression and the pathogenesis of hypertension. Human Molecular Genetics, 2013, 22, 3624-3640.	2.9	46
13	Anti-breast tumor activity of Eclipta extract in-vitro and in-vivo: novel evidence of endoplasmic reticulum specific localization of Hsp60 during apoptosis. Scientific Reports, 2016, 5, 18457.	3.3	44
14	Role of Reactive Oxygen Species in Hyperadrenergic Hypertension. Circulation: Cardiovascular Genetics, 2010, 3, 414-425.	5.1	42
15	Role of brown adipose tissue in modulating adipose tissue inflammation and insulin resistance in high-fat diet fed mice. European Journal of Pharmacology, 2019, 854, 354-364.	3.5	40
16	Globular adiponectin reverses osteo-sarcopenia and altered body composition in ovariectomized rats. Bone, 2017, 105, 75-86.	2.9	39
17	Challenges of peptide and protein drug delivery by oral route: Current strategies to improve the bioavailability. Drug Development Research, 2021, 82, 927-944.	2.9	39
18	Chronic hyperinsulinemia reduces insulin sensitivity and metabolic functions of brown adipocyte. Journal of Endocrinology, 2016, 230, 275-290.	2.6	35

#	Article	IF	Citations
19	Pancreastatin inhibitor activates AMPK pathway via GRP78 and ameliorates dexamethasone induced fatty liver disease in C57BL/6 mice. Biomedicine and Pharmacotherapy, 2019, 116, 108959.	5.6	35
20	Chromogranin A and the Autonomic System: Decomposition of Heart Rate Variability and Rescue by Its Catestatin Fragment. Endocrinology, 2010, 151, 2760-2768.	2.8	34
21	Orally Active Osteoanabolic Agent GTDF Binds to Adiponectin Receptors, With a Preference for AdipoR1, Induces Adiponectin-Associated Signaling, and Improves Metabolic Health in a Rodent Model of Diabetes. Diabetes, 2014, 63, 3530-3544.	0.6	33
22	Evaluation of anti-hypertensive activity of Ulmus wallichiana extract and fraction in SHR, DOCA-salt- and L-NAME-induced hypertensive rats. Journal of Ethnopharmacology, 2016, 193, 555-565.	4.1	33
23	LC-MS/MS method for the simultaneous quantification of luteolin, wedelolactone and apigenin in mice plasma using hansen solubility parameters for liquid-liquid extraction: Application to pharmacokinetics of Eclipta alba chloroform fraction. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1081-1082, 76-86.	2.3	33
24	Preparation and in-vitro/in-vivo characterization of trans-resveratrol nanocrystals for oral administration. Drug Delivery and Translational Research, 2017, 7, 395-407.	5.8	32
25	Nicotinic Acetylcholine Receptors in Glucose Homeostasis: The Acute Hyperglycemic and Chronic Insulin-Sensitive Effects of Nicotine Suggest Dual Opposing Roles of the Receptors in Male Mice. Endocrinology, 2014, 155, 3793-3805.	2.8	31
26	Theophylline, a methylxanthine drug induces osteopenia and alters calciotropic hormones, and prophylactic vitamin D treatment protects against these changes in rats. Toxicology and Applied Pharmacology, 2016, 295, 12-25.	2.8	30
27	Discovery of pancreastatin inhibitor PSTi8 for the treatment of insulin resistance and diabetes: studies in rodent models of diabetes mellitus. Scientific Reports, 2018, 8, 8715.	3.3	30
28	Pancreastatin is an endogenous peptide that regulates glucose homeostasis. Physiological Genomics, 2013, 45, 1060-1071.	2.3	29
29	Altered glucose and lipid homeostasis in liver and adipose tissue pre-dispose inducible NOS knockout mice to insulin resistance. Scientific Reports, 2017, 7, 41009.	3.3	28
30	Molecular basis of neuroendocrine cell type-specific expression of the chromograninâ€ƒB gene: crucial role of the transcription factors CREB, AP-2, Egr-1 and Sp1. Journal of Neurochemistry, 2006, 99, 119-133.	3.9	27
31	Autonomic Function in Hypertension. Circulation: Cardiovascular Genetics, 2009, 2, 46-56.	5.1	26
32	Cardioprotective Effect of Ulmus wallichiana Planchon in Î²-Adrenergic Agonist Induced Cardiac Hypertrophy. Frontiers in Pharmacology, 2016, 7, 510.	3.5	25
33	A prebiotic, short-chain fructo-oligosaccharides promotes peak bone mass and maintains bone mass in ovariectomized rats by an osteogenic mechanism. Biomedicine and Pharmacotherapy, 2020, 129, 110448.	5.6	23
34	Pharmacokinetics and brain targeting of trans-resveratrol loaded mixed micelles in rats following intravenous administration. Pharmaceutical Development and Technology, 2020, 25, 300-307.	2.4	21
35	Discovery of a Novel Target for the Dysglycemic Chromogranin A Fragment Pancreastatin: Interaction with the Chaperone GRP78 to Influence Metabolism. PLoS ONE, 2014, 9, e84132.	2.5	21
36	Skeletal restoration by phosphodiesterase 5 inhibitors in osteopenic mice: Evidence of osteoanabolic and osteoangiogenic effects of the drugs. Bone, 2020, 135, 115305.	2.9	20

#	Article	IF	Citations
37	A butanolic fraction from the standardized stem extract of Cassia occidentalis L delivered by a self-emulsifying drug delivery system protects rats from glucocorticoid-induced osteopenia and muscle atrophy. Scientific Reports, 2020, 10, 195.	3.3	20
38	Pancreastatin inhibitor, PSTi8 ameliorates metabolic health by modulating AKT/GSK-3Î² and PKCÎ»/Î¶/SREBP1c pathways in high fat diet induced insulin resistance in peri-/post-menopausal rats. Peptides, 2019, 120, 170147.	2.4	19
39	Discovery of a Novel Small-Molecule Inhibitor that Targets PP2Aâ€“Î²-Catenin Signaling and Restricts Tumor Growth and Metastasis. Molecular Cancer Therapeutics, 2017, 16, 1791-1805.	4.1	18
40	JNK signaling pathway in metabolic disorders: An emerging therapeutic target. European Journal of Pharmacology, 2021, 901, 174079.	3.5	18
41	Pancreastatin inhibitor PSTi8 attenuates hyperinsulinemia induced obesity and inflammation mediated insulin resistance via MAPK/NOX3-JNK pathway. European Journal of Pharmacology, 2019, 864, 172723.	3.5	17
42	Combination of Pancreastatin inhibitor PSTi8 with metformin inhibits Fetuin-A in type 2 diabetic mice. Heliyon, 2020, 6, e05133.	3.2	17
43	Global metabolic consequences of the chromogranin A-null model of hypertension: transcriptomic detection, pathway identification, and experimental verification. Physiological Genomics, 2010, 40, 195-207.	2.3	16
44	Catecholamine Storage Vesicles: Role of Core Protein Genetic Polymorphisms in Hypertension. Current Hypertension Reports, 2011, 13, 36-45.	3.5	16
45	Approaches to minimize the effects of Pâ€glycoprotein in drug transport: A review. Drug Development Research, 2022, 83, 825-841.	2.9	16
46	Chromogranin B: intraâ€•and extraâ€cellular mechanisms to regulate catecholamine storage and release, in catecholaminergic cells and organisms. Journal of Neurochemistry, 2014, 129, 48-59.	3.9	15
47	Pharmacokinetics and bioavailability assessment of Miltefosine in rats using high performance liquid chromatography tandem mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1031, 123-130.	2.3	15
48	Isoalantolactone derivative promotes glucose utilization in skeletal muscle cells and increases energy expenditure in db/db mice via activating AMPK-dependent signaling. Molecular and Cellular Endocrinology, 2018, 460, 134-151.	3.2	15
49	A nutraceutical composition containing diosmin and hesperidin has osteogenic and anti-resorptive effects and expands the anabolic window of teriparatide. Biomedicine and Pharmacotherapy, 2019, 118, 109207.	5.6	14
50	A Novel Benzocoumarin-Stilbene Hybrid as a DNA ligase I inhibitor with in vitro and in vivo anti-tumor activity in breast cancer models. Scientific Reports, 2017, 7, 10715.	3.3	13
51	Bioavailability Enhancement of Poorly Soluble Drugs: The Holy Grail in Pharma Industry. Current Pharmaceutical Design, 2019, 25, 987-1020.	1.9	13
52	RP-HPLC Separation of Isomeric Withanolides: Method Development, Validation and Application to In situ Rat Permeability Determination. Journal of Chromatographic Science, 2017, 55, 729-735.	1.4	12
53	Synthesis of substituted 2H-benzo[e]indazole-9-carboxylate as a potent antihyperglycemic agent that may act through IRS-1, Akt and GSK-3Î² pathways. MedChemComm, 2017, 8, 329-337.	3.4	12
54	Inhibition of NOX4 by Cissus quadrangularis extract protects from Type 2 diabetes induced-steatohepatitis. Phytomedicine Plus, 2021, 1, 100021.	2.0	12

#	Article	IF	Citations
55	Cissus quadrangularis extract attenuates diabetic nephropathy by altering SIRT1/DNMT1 axis. Journal of Pharmacy and Pharmacology, 2021, 73, 1442-1450.	2.4	12
56	PSTi8 with metformin ameliorates perimenopause induced steatohepatitis associated ER stress by regulating SIRT-1/SREBP-1c axis. Heliyon, 2020, 6, e05826.	3.2	12
57	Bone distribution study of anti leprotic drug clofazimine in rat bone marrow cells by a sensitive reverse phase liquid chromatography method. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2014, 960, 82-86.	2.3	11
58	Glucose and lipid metabolism alterations in liver and adipose tissue pre-dispose p47^{phox} knockout mice to systemic insulin resistance. Free Radical Research, 2018, 52, 568-582.	3.3	11
59	Elucidation of pharmacokinetics of novel DNA ligase I inhibitor, S012-1332 in rats: Integration of in vitro and in vivo findings. Journal of Pharmaceutical and Biomedical Analysis, 2019, 162, 205-214.	2.8	11
60	Elucidation of plasma protein binding, blood partitioning, permeability, CYP phenotyping and CYP inhibition studies of Withanone using validated UPLC method: An active constituent of neuroprotective herb Ashwagandha. Journal of Ethnopharmacology, 2021, 270, 113819.	4.1	11
61	Diosmin, a citrus fruit-derived phlebotonic bioflavonoid protects rats from chronic kidney disease-induced loss of bone mass and strength without deteriorating the renal function. Food and Function, 2022, 13, 2184-2199.	4.6	11
62	Determination of permeability, plasma protein binding, blood partitioning, pharmacokinetics and tissue distribution of Withanolide A in rats: A neuroprotective steroidal lactone. Drug Development Research, 2018, 79, 339-351.	2.9	10
63	Pancreastatin inhibitor PSTi8 protects the obesity associated skeletal muscle insulin resistance in diet induced streptozotocin-treated diabetic mice. European Journal of Pharmacology, 2020, 881, 173204.	3.5	10
64	Naturally Occurring Genetic Variants in Human Chromogranin A (CHGA) Associated with Hypertension as well as Hypertensive Renal Disease. Cellular and Molecular Neurobiology, 2010, 30, 1395-1400.	3.3	9
65	Pharmacokinetics, dose proportionality and permeability of S002-333 and its enantiomers, a potent antithrombotic agent, in rabbits. Xenobiotica, 2015, 45, 1016-1023.	1.1	9
66	Increased Bone Marrow-Specific Adipogenesis by Clofazimine Causes Impaired Fracture Healing, Osteopenia, and Osteonecrosis Without Extraskeletal Effects in Rats. Toxicological Sciences, 2019, 172, 167-180.	3.1	9
67	Systemic Insulin Resistance and Metabolic Perturbations in Chow Fed Inducible Nitric Oxide Synthase Knockout Male Mice: Partial Reversal by Nitrite Supplementation. Antioxidants, 2020, 9, 736.	5.1	9
68	A novel nanosized phospholipid complex of Biochanin A for improving oral bioavailability: Preparation and in-vitro/in-vivo characterizations. Journal of Drug Delivery Science and Technology, 2021, 61, 102254.	3.0	9
69	Ethanolic extract of Cissus quadrangularis improves vasoreactivity by modulation of eNOS expression and oxidative stress in spontaneously hypertensive rats. Clinical and Experimental Hypertension, 2022, 44, 63-71.	1.3	9
70	Natural Variation within the Neuronal Nicotinic Acetylcholine Receptor Cluster on Human Chromosome 15q24: Influence on Heritable Autonomic Traits in Twin Pairs. Journal of Pharmacology and Experimental Therapeutics, 2009, 331, 419-428.	2.5	8
71	In vitrometabolism of a novel antithrombotic compound, S002-333, and its enantiomers: quantitative cytochrome P450 phenotyping, metabolic profiling and enzyme kinetic studies. Xenobiotica, 2014, 44, 295-308.	1.1	7
72	Pancreastatin mediated regulation of UCP-1 and energy expenditure in high fructose fed perimenopausal rats. Life Sciences, 2021, 279, 119677.	4.3	7

#	Article	IF	Citations
73	Polyphenolic-rich Cissus quadrangularis extract ameliorates insulin resistance by activating AdipoR1 in peri-/post-menopausal rats. Experimental Gerontology, 2022, 159, 111681.	2.8	7
74	Coelogin ameliorates metabolic dyshomeostasis by regulating adipogenesis and enhancing energy expenditure in adipose tissue. Pharmacological Research, 2021, 172, 105776.	7.1	6
75	Cardiac Electrical Activity in a Genomically â€œHumanizedâ€•Chromogranin A Monogenic Mouse Model with Hyperadrenergic Hypertension. Journal of Cardiovascular Translational Research, 2014, 7, 483-493.	2.4	5
76	Simultaneous quantification of proposed anti-malarial combination comprising of lumefantrine and CDRI 97â€“78 in rat plasma using the HPLCâ€“ESI-MS/MS method: application to drug interaction study. Malaria Journal, 2015, 14, 172.	2.3	5
77	Metabolic profiling of a novel antithrombotic compound, S002â€333 and enantiomers: metabolic stability, species comparison and in vitroâ€“in vivo extrapolation. Biopharmaceutics and Drug Disposition, 2016, 37, 185-199.	1.9	5
78	LC-ESI-MS/MS assay development and validation of a novel antidiabetic peptide PSTi8 in mice plasma using SPE: An application to pharmacokinetics. Journal of Pharmaceutical and Biomedical Analysis, 2020, 180, 113074.	2.8	5
79	Simultaneous quantification of five biomarkers in ethanolic extract ofCassia occidentalisLinn. stem using liquid chromatography tandem mass spectrometry: application to its pharmacokinetic studies. RSC Advances, 2020, 10, 4579-4588.	3.6	5
80	Pancreastatin induces islet amyloid peptide aggregation in the pancreas, liver, and skeletal muscle: An implication for type 2 diabetes. International Journal of Biological Macromolecules, 2021, 182, 760-771.	7.5	5
81	Pancreastatin induces hepatic steatosis in type 2 diabetes by impeding mitochondrial functioning. Life Sciences, 2021, 284, 119905.	4.3	5
82	Catecholamine biosynthesis and secretion: physiological and pharmacological effects of secretin. Cell and Tissue Research, 2011, 345, 87-102.	2.9	4
83	Development and validation of LC-MS/MS method for quantification of novel PP2A â€“ Î²-catenin signalling inhibitor, S011-2111 in mice plasma: Application to its preclinical pharmacokinetic studies. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2019, 1130-1131, 121829.	2.3	4
84	Regulatory safety pharmacology and toxicity assessments of a standardized stem extract of Cassia occidentalis Linn. in rodents. Regulatory Toxicology and Pharmacology, 2021, 123, 104960.	2.7	4
85	Withania somnifera in Neurological Disorders: Ethnopharmacological Evidence, Mechanism of Action and its Progress in Delivery Systems. Current Drug Metabolism, 2021, 22, 561-571.	1.2	4
86	Functional Gly297Ser Variant of the Physiological Dysglycemic Peptide Pancreastatin Is a Novel Risk Factor for Cardiometabolic Disorders. Diabetes, 2022, 71, 538-553.	0.6	4
87	Evaluation of oral pharmacokinetics, in vitro metabolism, blood partitioning and plasma protein binding of novel antidiabetic agent, S009â€0629 in rats. Drug Development Research, 2018, 79, 173-183.	2.9	3
88	Pregnane-Oximino-Alkyl-Amino-Ether Compound as a Novel Class of TGR5 Receptor Agonist Exhibiting Antidiabetic and Anti-Dyslipidemic Activities. Pharmacology, 2022, 107, 54-68.	2.2	3
89	Emerging nanotechnology based combination therapies of taxanes for multiple drug-resistant cancers. Pharmaceutical Development and Technology, 2022, 27, 95-107.	2.4	3
90	Pancreastatin inhibitor PSTi8 prevents free fatty acid-induced oxidative stress and insulin resistance by modulating JNK pathway: In vitro and in vivo findings. Life Sciences, 2022, 289, 120221.	4.3	3

#	Article	IF	Citations
91	Herbâ€“drug interaction studies of ethanolic extract of Cassia occidentalis L. coadministered with acetaminophen, theophylline, omeprazole, methotrexate and methylprednisolone. Phytomedicine Plus, 2021, 1, 100008.	2.0	2
92	Evaluation of the Pharmacokinetics of the Pancreastatin Inhibitor PSTi8 Peptide in Rats: Integration of In Vitro and In Vivo Findings. Molecules, 2022, 27, 339.	3.8	2
93	Antibacterial and toxicological evaluation of beta-lactams synthesized by immobilized beta-lactamase-free penicillin amidase produced by Alcaligenes sp. Indian Journal of Experimental Biology, 2007, 45, 1068-72.	0.0	2
94	Oral Administration of Isovitexin, a Naturally Occurring Apigenin Derivative Showed Osteoanabolic Effect in Ovariectomized Mice: A Comparative Study with Teriparatide. Calcified Tissue International, 2022, 111, 196-210.	3.1	2
95	Augmented experimental design for bioavailability enhancement: a robust formulation of abiraterone acetate. Journal of Liposome Research, 2022, , 1-12.	3.3	2