Giriraj Ratan Chandak

List of Publications by Year
in descending order

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Version: 2024-02-01

108	7,940	87888 38	53230 85
papers	citations	h-index	g-index

114	114	114	14761
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Genetic variants in novel pathways influence blood pressure and cardiovascular disease risk. Nature, 2011, 478, 103-109.	27.8	1,855
2	The genetic architecture of type 2 diabetes. Nature, 2016, 536, 41-47.	27.8	952
3	Towards a new developmental synthesis: adaptive developmental plasticity and human disease. Lancet, The, 2009, 373, 1654-1657.	13.7	368
4	The power of genetic diversity in genome-wide association studies of lipids. Nature, 2021, 600, 675-679.	27.8	353
5	Genetic landscape of the people of India: a canvas for disease gene exploration. Journal of Genetics, 2008, 87, 3-20.	0.7	282
6	Variants in CPA1 are strongly associated with early onset chronic pancreatitis. Nature Genetics, 2013, 45, 1216-1220.	21.4	255
7	Common variants in the TCF7L2 gene are strongly associated with type 2 diabetes mellitus in the Indian population. Diabetologia, 2006, 50, 63-67.	6.3	225
8	Directional dominance on stature and cognition inÂdiverse human populations. Nature, 2015, 523, 459-462.	27.8	173
9	Association of genetic variation in FTO with risk of obesity and type 2 diabetes with data from 96,551 East and South Asians. Diabetologia, 2012, 55, 981-995.	6.3	171
10	FTO gene variants are strongly associated with type 2 diabetes in South Asian Indians. Diabetologia, 2009, 52, 247-252.	6.3	168
11	Impact of Common Variants of PPARG, KCNJ11, TCF7L2, SLC30A8, HHEX, CDKN2A, IGF2BP2, and CDKAL1 on the Risk of Type 2 Diabetes in 5,164 Indians. Diabetes, 2010, 59, 2068-2074.	0.6	163
12	Association between Common Polymorphism near the MC4R Gene and Obesity Risk: A Systematic Review and Meta-Analysis. PLoS ONE, 2012, 7, e45731.	2.5	112
13	Absence of PRSS1 mutations and association of SPINK1 trypsin inhibitor mutations in hereditary and non-hereditary chronic pancreatitis. Gut, 2004, 53, 723-728.	12.1	100
14	Maternal dietary folate and/or vitamin B12 restrictions alter body composition (adiposity) and lipid metabolism in Wistar rat offspring. Journal of Nutritional Biochemistry, 2013, 24, 25-31.	4.2	94
15	Rapid and accurate nucleobase detection using FnCas9 and its application in COVID-19 diagnosis. Biosensors and Bioelectronics, 2021, 183, 113207.	10.1	93
16	Comprehensive functional analysis of chymotrypsin C (CTRC) variants reveals distinct loss-of-function mechanisms associated with pancreatitis risk. Gut, 2013, 62, 1616-1624.	12.1	89
17	Differential placental methylation and expression of VEGF, FLT- 1 and KDR genes in human term and preterm preeclampsia. Clinical Epigenetics, 2013, 5, 6.	4.1	87
18	Associations of autozygosity with a broad range of human phenotypes. Nature Communications, 2019, 10, 4957.	12.8	84

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19	High Resolution Methylome Map of Rat Indicates Role of Intragenic DNA Methylation in Identification of Coding Region. PLoS ONE, 2012, 7, e31621.	2.5	80
20	LC-MS/MS Analysis of Differentially Expressed Glioblastoma Membrane Proteome Reveals Altered Calcium Signaling and Other Protein Groups of Regulatory Functions. Molecular and Cellular Proteomics, 2012, 11, M111.013565.	3.8	76
21	Association of cathepsin B gene polymorphisms with tropical calcific pancreatitis. Gut, 2006, 55, 1270-1275.	12.1	75
22	Trypsinogen Copy Number Mutations in Patients With Idiopathic Chronic Pancreatitis. Clinical Gastroenterology and Hepatology, 2008, 6, 82-88.	4.4	75
23	Maternal homocysteine in pregnancy and offspring birthweight: epidemiological associations and Mendelian randomization analysis. International Journal of Epidemiology, 2014, 43, 1487-1497.	1.9	71
24	Proteins with Altered Levels in Plasma from Glioblastoma Patients as Revealed by iTRAQ-Based Quantitative Proteomic Analysis. PLoS ONE, 2012, 7, e46153.	2.5	70
25	Comprehensive screening of chymotrypsin C (CTRC) gene in tropical calcific pancreatitis identifies novel variants. Gut, 2013, 62, 1602-1606.	12.1	60
26	No Association Between CELâ€“HYB Hybrid Allele and Chronic Pancreatitis in Asian Populations. Gastroenterology, 2016, 150, 1558-1560.e5.	1.3	59
27	Common polymorphism near the MC4R gene is associated with type 2 diabetes: data from a meta-analysis of 123,373 individuals. Diabetologia, 2012, 55, 2660-2666.	6.3	58
28	Maternal oneâ€carbon metabolism, MTHFR and TCN2 genotypes and neural tube defects in India. Birth Defects Research Part A: Clinical and Molecular Teratology, 2011, 91, 848-856.	1.6	52
29	Candidate genes linking maternal nutrient exposure to offspring health via DNA methylation: a review of existing evidence in humans with specific focus on one-carbon metabolism. International Journal of Epidemiology, 2018, 47, 1910-1937.	1.9	51
30	Study of 11 BMI-Associated Loci Identified in GWAS for Associations with Central Obesity in the Chinese Children. PLoS ONE, 2013, 8, e56472.	2.5	50
31	Protease-Sensitive Pancreatic Lipase Variants Are Associated With Early Onset Chronic Pancreatitis. American Journal of Gastroenterology, 2019, 114, 974-983.	0.4	48
32	A Low-Frequency Inactivating AKT2 Variant Enriched in the Finnish Population Is Associated With Fasting Insulin Levels and Type 2 Diabetes Risk. Diabetes, 2017, 66, 2019-2032.	0.6	47
33	Molecular pathology of haemophilia B: identification of five novel mutations including a LINE 1 insertion in Indian patients. Haemophilia, 2004, 10, 259-263.	2.1	45
34	Cardiac Beriberi: Often a Missed Diagnosis. Journal of Tropical Pediatrics, 2010, 56, 284-285.	1.5	45
35	Association analysis of 31 common polymorphisms with type 2 diabetes and its related traits in Indian sib pairs. Diabetologia, 2012, 55, 349-357.	6.3	44
36	Analysis of 32 common susceptibility genetic variants and their combined effect in predicting risk of Typeâ€ƒ2 diabetes and related traits in Indians. Diabetic Medicine, 2012, 29, 121-127.	2.3	43

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37	Association of common variants in/near six genes (ATP2B1, CSK, MTHFR, CYP17A1, STK39 and FGF5) with blood pressure/hypertension risk in Chinese children. Journal of Human Hypertension, 2014, 28, 32-36.	2.2	43
38	Triglyceride associated polymorphisms of the APOA5gene have very different allele frequencies in Pune, India compared to Europeans. BMC Medical Genetics, 2006, 7, 76.	2.1	42
39	Vitamin B₁₂ supplementation influences methylation of genes associated with Type 2 diabetes and its intermediate traits. Epigenomics, 2018, 10, 71-90.	2.1	42
40	Frequency of primary iron overload and HFE gene mutations (C282Y, H63D and S65C) in chronic liver disease patients in north India. World Journal of Gastroenterology, 2007, 13, 2956.	3.3	38
41	Common variants in NOD2 and IL23R are not associated with inflammatory bowel disease in Indians. Journal of Gastroenterology and Hepatology (Australia), 2011, 26, 694-699.	2.8	38
42	Genetic mechanisms underlying the pathogenesis of tropical calcific pancreatitis. World Journal of Gastroenterology, 2009, 15, 264.	3.3	37
43	Influence of Obesity on Association Between Genetic Variants Identified by Genome-Wide Association Studies and Hypertension Risk in Chinese Children. American Journal of Hypertension, 2013, 26, 990-996.	2.0	36
44	Glioblastoma cell secretome: Analysis of three glioblastoma cell lines reveal 148 non-redundant proteins. Journal of Proteomics, 2011, 74, 1918-1925.	2.4	35
45	Associations of genetic variants in/near body mass indexâ€associated genes with type 2 diabetes: a systematic metaâ€analysis. Clinical Endocrinology, 2014, 81, 702-710.	2.4	35
46	PPAR signaling pathway is a key modulator of liver proteome in pups born to vitamin B12 deficient rats. Journal of Proteomics, 2013, 91, 297-308.	2.4	34
47	Association of PON1 and APOA5 Gene Polymorphisms in a Cohort of Indian Patients Having Coronary Artery Disease With and Without Type 2 Diabetes. Genetic Testing and Molecular Biomarkers, 2011, 15, 507-512.	0.7	32
48	FTO gene variant and risk of hypertension: A meta-analysis of 57,464 hypertensive cases and 41,256 controls. Metabolism: Clinical and Experimental, 2014, 63, 633-639.	3.4	32
49	Intrauterine Programming of Diabetes and Adiposity. Current Obesity Reports, 2015, 4, 418-428.	8.4	32
50	Altered Methylation and Expression Patterns of Genes Regulating Placental Angiogenesis in Preterm Pregnancy. Reproductive Sciences, 2014, 21, 1508-1517.	2.5	31
51	Sequence data and association statistics from 12,940 type 2 diabetes cases and controls. Scientific Data, 2017, 4, 170179.	5.3	31
52	Association of Common Genetic Variants with Lipid Traits in the Indian Population. PLoS ONE, 2014, 9, e101688.	2.5	31
53	GWAS identifies population-specific new regulatory variants in FUT6 associated with plasma B12 concentrations in Indians. Human Molecular Genetics, 2017, 26, 2551-2564.	2.9	30
54	New insights from monogenic diabetes for Ã¢â‚¬Å“commonÃ¢â‚¬Â•type 2 diabetes. Frontiers in Genetics, 2015, 6, 251.	2.3	29

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55	High Prevalence of Infantile Encephalitic Beriberi with Overlapping Features of Leigh's Disease. Journal of Tropical Pediatrics, 2008, 54, 328-332.	1.5	28
56	Genetic and phenotypic heterogeneity in tropical calcific pancreatitis. World Journal of Gastroenterology, 2014, 20, 17314.	3.3	28
57	Mutations in anionic trypsinogen gene are not associated with tropical calcific pancreatitis. Gut, 2005, 54, 728-729.	12.1	26
58	Type 1 diabetes genetic risk score is discriminative of diabetes in non-Europeans: evidence from a study in India. Scientific Reports, 2020, 10, 9450.	3.3	25
59	Chronic Maternal Vitamin B12 Restriction Induced Changes in Body Composition & Glucose Metabolism in the Wistar Rat Offspring Are Partly Correctable by Rehabilitation. PLoS ONE, 2014, 9, e112991.	2.5	24
60	Genetic Architecture of Parkinson's Disease in the Indian Population: Harnessing Genetic Diversity to Address Critical Gaps in Parkinson's Disease Research. Frontiers in Neurology, 2020, 11, 524.	2.4	23
61	STK39 Polymorphism Is Associated with Essential Hypertension: A Systematic Review and Meta-Analysis. PLoS ONE, 2013, 8, e59584.	2.5	23
62	Fetus-in-fetu: A case report with molecular analysis. Journal of Pediatric Surgery, 1999, 34, 641-644.	1.6	21
63	Effect of maternal preconceptional and pregnancy micronutrient interventions on childrenâ€™s DNA methylation: Findings from the EMPHASIS study. American Journal of Clinical Nutrition, 2020, 112, 1099-1113.	4.7	21
64	Identification of genetic effects underlying type 2 diabetes in South Asian and European populations. Communications Biology, 2022, 5, 329.	4.4	21
65	Lack of significant association of an insertion/deletion polymorphism in the angiotensin converting enzyme (ACE) gene with tropical calcific pancreatitis. BMC Gastroenterology, 2006, 6, 42.	2.0	19
66	Association Study of 25 Type 2 Diabetes Related Loci with Measures of Obesity in Indian Sib Pairs. PLoS ONE, 2013, 8, e53944.	2.5	19
67	Assessing the pathological relevance of SPINK1 promoter variants. European Journal of Human Genetics, 2011, 19, 1066-1073.	2.8	18
68	Identification of a functional enhancer variant within the chronic pancreatitisâ€associatedSPINK1c.101A>G (p.Asn34Ser)â€containing haplotype. Human Mutation, 2017, 38, 1014-1024.	2.5	18
69	Common variants of SLAMF1 and ITLN1 on 1q21 are associated with type 2 diabetes in Indian population. Journal of Human Genetics, 2012, 57, 184-190.	2.3	16
70	Association Analysis of PRSS1-PRSS2 and CLDN2-MORC4 Variants in Nonalcoholic Chronic Pancreatitis Using Tropical Calcific Pancreatitis as Model. Pancreas, 2016, 45, 1153-1157.	1.1	16
71	Relationship of APOA5, PPARÎ³ and HL gene variants with serial changes in childhood body mass index and coronary artery disease risk factors in young adulthood. Lipids in Health and Disease, 2011, 10, 68.	3.0	15
72	Maternal vitamin B12 deficiency in rats alters DNA methylation in metabolically important genes in their offspring. Molecular and Cellular Biochemistry, 2020, 468, 83-96.	3.1	15

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73	Comprehensive screening for Ð±reg1Î±ï¿½ï¿½ gene rules out association with tropical calcific pancreatitis. World Journal of Gastroenterology, 2007, 13, 5938.	3.3	15
74	A novel mutation in STK11gene is associated with Peutz-Jeghers Syndrome in Indian patients. BMC Medical Genetics, 2006, 7, 73.	2.1	14
75	Protocol for the EMPHASIS study; epigenetic mechanisms linking maternal pre-conceptional nutrition and childrenâ€™s health in India and Sub-Saharan Africa. BMC Nutrition, 2017, 3, .	1.6	14
76	TCF7L2 gene polymorphisms do not predict susceptibility to diabetes in tropical calcific pancreatitis but may interact with SPINK1 and CTSBmutations in predicting diabetes. BMC Medical Genetics, 2008, 9, 80.	2.1	13
77	Hypermethylated CpG sites in the MTR gene promoter in preterm placenta. Epigenomics, 2017, 9, 985-996.	2.1	13
78	Allelic drop-out may occur with a primer binding site polymorphism for the commonly used RFLP assay for the -1131T>C polymorphism of the Apolipoprotein AV gene. Lipids in Health and Disease, 2006, 5, 11.	3.0	12
79	H63D mutation in HFE gene is common in Indians and is associated with the European haplotype. Journal of Genetics, 2012, 91, 229-232.	0.7	12
80	Inclusion of Population-specific Reference Panel from India to the 1000 Genomes Phase 3 Panel Improves Imputation Accuracy. Scientific Reports, 2017, 7, 6733.	3.3	12
81	Protocol for a cluster randomised trial evaluating a multifaceted intervention starting preconceptionallyâ€"Early Interventions to Support Trajectories for Healthy Life in India (EINSTEIN): a Healthy Life Trajectories Initiative (HeLTI) Study. BMJ Open, 2021, 11, e045862.	1.9	12
82	Genetic analysis of an Indian family with members affected with Waardenburg syndrome and Duchenne muscular dystrophy. Molecular Vision, 2012, 18, 2022-32.	1.1	12
83	Identification of urinary proteins potentially associated with diabetic kidney disease. Indian Journal of Nephrology, 2016, 26, 434.	0.5	11
84	The G191R variant in the PRSS2 gene does not play a role in protection against tropical calcific pancreatitis. Gut, 2009, 58, 881-882.	12.1	10
85	Genetic Analysis of the Glycoprotein 2 Gene in Patients With Chronic Pancreatitis. Pancreas, 2010, 39, 353-358.	1.1	10
86	Evaluation of seven common lipid associated loci in a large Indian sib pair study. Lipids in Health and Disease, 2012, 11, 155.	3.0	9
87	Birth size, risk factors across life and cognition in late life: protocol of prospective longitudinal follow-up of the MYNAH (MYsore studies of Natal effects on Ageing and Health) cohort. BMJ Open, 2017, 7, e012552.	1.9	9
88	Causal relationships between lipid and glycemic levels in an Indian population: A bidirectional Mendelian randomization approach. PLoS ONE, 2020, 15, e0228269.	2.5	8
89	Tissue- and ethnicity-independent hypervariable DNA methylation states show evidence of establishment in the early human embryo. Nucleic Acids Research, 2022, 50, 6735-6752.	14.5	8
90	Evaluation of genetic markers linked to hemophilia A locus: an Indian experience. Haematologica, 2007, 92, 1725-1726.	3.5	7

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91	Lack of replication of association of THSD7A with obesity. International Journal of Obesity, 2016, 40, 725-726.	3.4	6
92	Migration and DNA methylation: a comparison of methylation patterns in type 2 diabetes susceptibility genes between indians and europeans. Journal of Diabetes Research & Clinical Metabolism, 2013, 2, 6.	0.2	5
93	What's there in a name: tropical calcific pancreatitis and idiopathic chronic pancreatitis in India. Gut, 2011, 60, 1440-1441.	12.1	4
94	Placental growth factorÂand Fms related tyrosine kinase-1Âare hypomethylated in preeclampsia placentae. Epigenomics, 2021, 13, 257-269.	2.1	4
95	DNA methylation signatures associated with cardiometabolic risk factors in children from India and The Gambia: results from the EMPHASIS study. Clinical Epigenetics, 2022, 14, 6.	4.1	4
96	Obscure pathogenesis of primary iron overload in Indians warrants more focused research. Indian Journal of Gastroenterology, 2011, 30, 154-155.	1.4	3
97	Maternal micronutrient deficiency leads to alteration in the kidney proteome in rat pups. Journal of Proteomics, 2015, 127, 178-184.	2.4	3
98	Identification and characterization of cis-regulatory elements â€˜insulator and repressorâ€™ in PPARD gene. Epigenomics, 2018, 10, 613-627.	2.1	3
99	Babies of South Asian and European Ancestry Show Similar Associations With Genetic Risk Score for Birth Weight Despite the Smaller Size of South Asian Newborns. Diabetes, 2022, 71, 821-836.	0.6	3
100	Juvenile Fibrocalculous Pancreatopathy - A Patient Report. Journal of Pediatric Endocrinology and Metabolism, 2006, 19, 947-50.	0.9	2
101	Periconceptional environment predicts leukocyte telomere length in a cross-sectional study of 7â€“9 year old rural Gambian children. Scientific Reports, 2020, 10, 9675.	3.3	2
102	A set of five microsatellite markers linked to F8 gene can detect haemophilia A carriers across India. Haemophilia, 2011, 17, e928-35.	2.1	0
103	Special Types of Chronic Pancreatitis. , 2017, , 141-177.		0
104	Genetic Disorders and Approaches to Their Prevention. , 2007, , 245-261.		0
105	Title is missing!. , 2020, 15, e0228269.		0
106	Title is missing!. , 2020, 15, e0228269.		0
107	Title is missing!. , 2020, 15, e0228269.		0
108	Title is missing!. , 2020, 15, e0228269.		0