

# Chittaranjan S Yajnik

## List of Publications by Year in descending order

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Version: 2024-02-01

92  
papers

7,222  
citations

94269

37  
h-index

60497

81  
g-index

106  
all docs

106  
docs citations

106  
times ranked

8812  
citing authors

#	ARTICLE	IF	CITATIONS
1	Origins of lifetime health around the time of conception: causes and consequences. <i>Lancet, The</i> , 2018, 391, 1842-1852.	6.3	771
2	Before the beginning: nutrition and lifestyle in the preconception period and its importance for future health. <i>Lancet, The</i> , 2018, 391, 1830-1841.	6.3	691
3	Nations within a nation: variations in epidemiological transition across the states of India, 1990â€“2016 in the Global Burden of Disease Study. <i>Lancet, The</i> , 2017, 390, 2437-2460.	6.3	647
4	Vitamin B12 deficiency. <i>Nature Reviews Disease Primers</i> , 2017, 3, 17040.	18.1	543
5	Intake of Micronutrient-Rich Foods in Rural Indian Mothers Is Associated with the Size of Their Babies at Birth: Pune Maternal Nutrition Study. <i>Journal of Nutrition</i> , 2001, 131, 1217-1224.	1.3	423
6	The increasing burden of diabetes and variations among the states of India: the Global Burden of Disease Study 1990â€“2016. <i>The Lancet Global Health</i> , 2018, 6, e1352-e1362.	2.9	323
7	Hyperhomocysteinemia and elevated methylmalonic acid indicate a high prevalence of cobalamin deficiency in Asian Indians. <i>American Journal of Clinical Nutrition</i> , 2001, 74, 233-241.	2.2	316
8	Multi-ancestry genetic study of type 2 diabetes highlights the power of diverse populations for discovery and translation. <i>Nature Genetics</i> , 2022, 54, 560-572.	9.4	250
9	The Y-Y paradox. <i>Lancet, The</i> , 2004, 363, 163.	6.3	201
10	Interactions of perturbations in intrauterine growth and growth during childhood on the risk of adult-onset disease. <i>Proceedings of the Nutrition Society</i> , 2000, 59, 257-265.	0.4	199
11	Maternal nutrition, intrauterine programming and consequential risks in the offspring. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2008, 9, 203-11.	2.6	160
12	Higher Maternal Plasma Folate but Not Vitamin B-12 Concentrations during Pregnancy Are Associated with Better Cognitive Function Scores in 9- to 10- Year-Old Children in South India. <i>Journal of Nutrition</i> , 2010, 140, 1014-1022.	1.3	141
13	The Insulin Resistance Epidemic in India: Fetal Origins, Later Lifestyle, or Both?. <i>Nutrition Reviews</i> , 2001, 59, 1-9.	2.6	127
14	Vitamin B <sub>12</sub> Status of Pregnant Indian Women and Cognitive Function in their 9-year-old Children. <i>Food and Nutrition Bulletin</i> , 2008, 29, 249-254.	0.5	115
15	Association between maternal folate concentrations during pregnancy and insulin resistance in Indian children. <i>Diabetologia</i> , 2014, 57, 110-121.	2.9	111
16	The Elevated Susceptibility to Diabetes in India: An Evolutionary Perspective. <i>Frontiers in Public Health</i> , 2016, 4, 145.	1.3	108
17	Associations of Maternal Vitamin B12 Concentration in Pregnancy With the Risks of Preterm Birth and Low Birth Weight: A Systematic Review and Meta-Analysis of Individual Participant Data. <i>American Journal of Epidemiology</i> , 2017, 185, 212-223.	1.6	108
18	Whole Body Magnetic Resonance Imaging of Healthy Newborn Infants Demonstrates Increased Central Adiposity in Asian Indians. <i>Pediatric Research</i> , 2009, 65, 584-587.	1.1	92

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19	Prevalence of vitamin B-12 insufficiency during pregnancy and its effect on offspring birth weight: a systematic review and meta-analysis. <i>American Journal of Clinical Nutrition</i> , 2016, 103, 1232-1251.	2.2	86
20	Multigenerational Undernutrition Increases Susceptibility to Obesity and Diabetes that Is Not Reversed after Dietary Recuperation. <i>Cell Metabolism</i> , 2015, 22, 312-319.	7.2	83
21	Quick and Simple Evaluation of Sudomotor Function for Screening of Diabetic Neuropathy. <i>Isrn Endocrinology</i> , 2012, 2012, 1-7.	2.0	76
22	Lower Circulating B12 Is Associated with Higher Obesity and Insulin Resistance during Pregnancy in a Non-Diabetic White British Population. <i>PLoS ONE</i> , 2015, 10, e0135268.	1.1	74
23	Maternal homocysteine in pregnancy and offspring birthweight: epidemiological associations and Mendelian randomization analysis. <i>International Journal of Epidemiology</i> , 2014, 43, 1487-1497.	0.9	71
24	Nutrient-mediated teratogenesis and fuel-mediated teratogenesis: Two pathways of intrauterine programming of diabetes. <i>International Journal of Gynecology and Obstetrics</i> , 2009, 104, S27-31.	1.0	69
25	Transmission of Obesity-Adiposity and Related Disorders from the Mother to the Baby. <i>Annals of Nutrition and Metabolism</i> , 2014, 64, 8-17.	1.0	69
26	Maternal total homocysteine concentration and neonatal size in India. <i>Asia Pacific Journal of Clinical Nutrition</i> , 2005, 14, 179-81.	0.3	61
27	Racial/ethnic differences in the burden of type 2 diabetes over the life course: a focus on the USA and India. <i>Diabetologia</i> , 2019, 62, 1751-1760.	2.9	57
28	Vitamin B12 and Folic Acid Improve Gross Motor and Problem-Solving Skills in Young North Indian Children: A Randomized Placebo-Controlled Trial. <i>PLoS ONE</i> , 2015, 10, e0129915.	1.1	56
29	Maternal Vitamin B12 Status During Pregnancy and Its Association With Outcomes of Pregnancy and Health of the Offspring: A Systematic Review and Implications for Policy in India. <i>Frontiers in Endocrinology</i> , 2021, 12, 619176.	1.5	54
30	Maternal one-carbon metabolism, <i>MTHFR</i> and <i>TCN2</i> genotypes and neural tube defects in India. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2011, 91, 848-856.	1.6	52
31	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. <i>International Journal of Epidemiology</i> , 2018, 47, 1910-1937.	0.9	51
32	Vitamin B-12, Folic Acid, and Growth in 6- to 30-Month-Old Children: A Randomized Controlled Trial. <i>Pediatrics</i> , 2015, 135, e918-e926.	1.0	48
33	Tracking of cardiovascular risk factors from childhood to young adulthood – the Pune Children's Study. <i>International Journal of Cardiology</i> , 2014, 175, 176-178.	0.8	45
34	Higher glucose, insulin and insulin resistance (HOMA-IR) in childhood predict adverse cardiovascular risk in early adulthood: the Pune Children's Study. <i>Diabetologia</i> , 2015, 58, 1626-1636.	2.9	44
35	Cobalamin Status from Pregnancy to Early Childhood: Lessons from Global Experience. <i>Advances in Nutrition</i> , 2017, 8, 971-979.	2.9	43
36	Vitamin B <sub>12</sub> supplementation influences methylation of genes associated with Type 2 diabetes and its intermediate traits. <i>Epigenomics</i> , 2018, 10, 71-90.	1.0	42

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37	Association of maternal vitamin B12 and folate levels in early pregnancy with gestational diabetes: a prospective UK cohort study (PRiDE study). <i>Diabetologia</i> , 2021, 64, 2170-2182.	2.9	42
38	Higher Offspring Birth Weight Predicts the Metabolic Syndrome in Mothers but Not Fathers 8 Years After Delivery: The Pune Children's Study. <i>Diabetes</i> , 2003, 52, 2090-2096.	0.3	39
39	Influence of Maternal Vitamin B <sub>12</sub> and Folate on Growth and Insulin Resistance in the Offspring. <i>Nestle Nutrition Institute Workshop Series</i> , 2013, 74, 145-156.	1.5	39
40	Subgroups of patients with young-onset type 2 diabetes in India reveal insulin deficiency as a major driver. <i>Diabetologia</i> , 2022, 65, 65-78.	2.9	34
41	Intrauterine Programming of Diabetes and Adiposity. <i>Current Obesity Reports</i> , 2015, 4, 418-428.	3.5	32
42	Increases in Plasma Holotranscobalamin Can Be Used to Assess Vitamin B-12 Absorption in Individuals with Low Plasma Vitamin B-12. <i>Journal of Nutrition</i> , 2009, 139, 2119-2123.	1.3	31
43	Fetal growth trajectories in pregnancies of European and South Asian mothers with and without gestational diabetes, a population-based cohort study. <i>PLoS ONE</i> , 2017, 12, e0172946.	1.1	31
44	GWAS identifies population-specific new regulatory variants in FUT6 associated with plasma B12 concentrations in Indians. <i>Human Molecular Genetics</i> , 2017, 26, 2551-2564.	1.4	30
45	Nutrition, growth, and body size in relation to insulin resistance and type 2 diabetes. <i>Current Diabetes Reports</i> , 2003, 3, 108-114.	1.7	26
46	The Pune Rural Intervention in Young Adolescents (PRIYA) study: design and methods of a randomised controlled trial. <i>BMC Nutrition</i> , 2017, 3, 41.	0.6	26
47	Developmental undernutrition, offspring obesity and type 2 diabetes. <i>Diabetologia</i> , 2019, 62, 1773-1778.	2.9	26
48	Type 1 diabetes genetic risk score is discriminative of diabetes in non-Europeans: evidence from a study in India. <i>Scientific Reports</i> , 2020, 10, 9450.	1.6	25
49	Oral vitamin B12 supplementation reduces plasma total homocysteine concentration in women in India. <i>Asia Pacific Journal of Clinical Nutrition</i> , 2007, 16, 103-9.	0.3	24
50	Iodine status during pregnancy in India and related neonatal and infant outcomes. <i>Public Health Nutrition</i> , 2014, 17, 1353-1362.	1.1	21
51	Prevalence and predictors of anemia in a population of North Indian children. <i>Nutrition</i> , 2014, 30, 531-537.	1.1	21
52	Identification of genetic effects underlying type 2 diabetes in South Asian and European populations. <i>Communications Biology</i> , 2022, 5, 329.	2.0	21
53	Developmental origins of secondary school dropout in rural India and its differential consequences by sex: A biosocial life-course analysis. <i>International Journal of Educational Development</i> , 2019, 66, 8-23.	1.4	19
54	Pre-conceptional Maternal Vitamin B12 Supplementation Improves Offspring Neurodevelopment at 2 Years of Age: PRIYA Trial. <i>Frontiers in Pediatrics</i> , 2021, 9, 755977.	0.9	19

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55	The Preconception Period analysis of Risks and Exposures Influencing health and Development (PrePARED) consortium. Paediatric and Perinatal Epidemiology, 2019, 33, 490-502.	0.8	18
56	IGF-I and IGFBP-3 concentrations at 2 years: associations with anthropometry and milk consumption in an Indian cohort. European Journal of Clinical Nutrition, 2018, 72, 564-571.	1.3	17
57	Exocrine Pancreatic Function (Serum Immunoreactive Trypsin, Fecal Chymotrypsin, and Pancreatic) Tj ETQq1 1 0.784314 rgBT /Overlo 0.5 16	0.5	16
58	Fibrocalculous Pancreatic Diabetes in Pune, India: Clinical features and follow-up for 7 yr. Diabetes Care, 1993, 16, 916-921.	4.3	15
59	Nutritional Control of Fetal Growth. Nutrition Reviews, 2006, 64, 50-51.	2.6	14
60	A physiological dose of oral vitamin B-12 improves hematological, biochemical-metabolic indices and peripheral nerve function in B-12 deficient Indian adolescent women. PLoS ONE, 2019, 14, e0223000.	1.1	14
61	Impairment of Glucose Tolerance Over 10 Years in Middle-Aged Normal Glucose Tolerant Indians. Diabetes Care, 2003, 26, 2212-2213.	4.3	13
62	Commentary: Thrifty phenotype: 20 years later. International Journal of Epidemiology, 2013, 42, 1227-1229.	0.9	13
63	Inclusion of Population-specific Reference Panel from India to the 1000 Genomes Phase 3 Panel Improves Imputation Accuracy. Scientific Reports, 2017, 7, 6733.	1.6	12
64	Protocol for a cluster randomised trial evaluating a multifaceted intervention starting preconceptuallyâ€”Early Interventions to Support Trajectories for Healthy Life in India (EINSTEIN): a Healthy Life Trajectories Initiative (HeLTI) Study. BMJ Open, 2021, 11, e045862.	0.8	12
65	Role of Placental Glucose Transporters in Determining Fetal Growth. Reproductive Sciences, 2022, 29, 2744-2759.	1.1	12
66	Poor In Utero Growth, and Reduced Î²-Cell Compensation and High Fasting Glucose From Childhood, Are Harbingers of Glucose Intolerance in Young Indians. Diabetes Care, 2021, 44, 2747-2757.	4.3	12
67	Fetal adiposity epidemic in the modern world: a thrifty phenotype aggravated by maternal obesity and diabetes. American Journal of Clinical Nutrition, 2020, 112, 8-10.	2.2	10
68	Association of preeclampsia with anthropometric measures and blood pressure in Indian children. PLoS ONE, 2020, 15, e0231989.	1.1	9
69	Conventional and novel cardiovascular risk factors and markers of vascular damage in rural and urban Indian men. International Journal of Cardiology, 2013, 165, 255-259.	0.8	8
70	Supplementation of vitamin B12 or folic acid on hemoglobin concentration in children 6â€”36 months of age: A randomized placebo controlled trial. Clinical Nutrition, 2017, 36, 986-991.	2.3	8
71	Food Access and Nutritional Status of Rural Adolescents in India: Pune Maternal Nutrition Study. American Journal of Preventive Medicine, 2020, 58, 728-735.	1.6	8
72	Maternal Glucose and LDL-Cholesterol Levels Are Related to Placental Leptin Gene Methylation, and Together With Nutritional Factors, Largely Explain a Higher Methylation Level Among Ethnic South Asians. Frontiers in Endocrinology, 2021, 12, 809916.	1.5	7

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73	Confessions of a thin-fat Indian. <i>European Journal of Clinical Nutrition</i> , 2018, 72, 469-473.	1.3	6
74	Evaluation of tracer labelled methionine load test in vitamin B-12 deficient adolescent women. <i>PLoS ONE</i> , 2018, 13, e0196970.	1.1	6
75	Maternal B12, Folate and Homocysteine Concentrations and Offspring Cortisol and Cardiovascular Responses to Stress. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020, 105, e2591-e2599.	1.8	6
76	Vitamin B12 and Folate Markers Are Associated with Insulin Resistance During the Third Trimester of Pregnancy in South Asian Women, Living in the United Kingdom, with Gestational Diabetes and Normal Glucose Tolerance. <i>Journal of Nutrition</i> , 2022, 152, 163-170.	1.3	6
77	Growth and body composition of children aged 2-4 years after exposure to community mobilisation women's groups in Bangladesh. <i>Journal of Epidemiology and Community Health</i> , 2018, 72, 888-895.	2.0	5
78	Adolescent diet and physical activity in the context of economic, social and nutrition transition in rural Maharashtra, India: a qualitative study. <i>Public Health Nutrition</i> , 2021, 24, 5299-5308.	1.1	5
79	Low vitamin B-12-high folate status in adolescents and pregnant women may have deleterious effects on health of the offspring. <i>American Journal of Clinical Nutrition</i> , 2021, 113, 1057-1059.	2.2	5
80	Life course programming of stress responses in adolescents and young adults in India: Protocol of the Stress Responses in Adolescence and Vulnerability to Adult Non-communicable disease (SRAVANA) Study. <i>Wellcome Open Research</i> , 2018, 3, 56.	0.9	5
81	Circulating microRNAs from early childhood and adolescence are associated with pre-diabetes at 18 years of age in women from the PMNS cohort. <i>Journal of Developmental Origins of Health and Disease</i> , 2022, 13, 806-811.	0.7	5
82	Pregnancy Glycemia Reflects Life Course Glycemia of the Mother. <i>Diabetes</i> , 2018, 67, .	0.3	4
83	Biosocial life-course factors associated with women's early marriage in rural India: The prospective longitudinal Pune Maternal Nutrition Study. <i>American Journal of Biological Anthropology</i> , 2022, 177, 147.	0.6	4
84	Efficacy of B <sub>12</sub> Fortified Nutrient Bar and Yogurt in Improving Plasma B12 Concentrations—Results From 2 Double-Blind Randomized Placebo Controlled Trials. <i>Food and Nutrition Bulletin</i> , 2021, 42, 480-489.	0.5	3
85	Maternal vitamin B12, folate during pregnancy and neurocognitive outcomes in young adults of the Pune Maternal Nutrition Study (PMNS) prospective birth cohort: study protocol. <i>BMJ Open</i> , 2021, 11, e046242.	0.8	2
86	Imperative of Preventive Measures Addressing the Life-Cycle. <i>Nestle Nutrition Workshop Series Paediatric Programme</i> , 2009, 63, 177-194.	1.5	1
87	Do components of adult height predict body composition and cardiometabolic risk in a young adult South Asian Indian population? Findings from a hospital-based cohort study in Pune, India: Pune Children's Study. <i>BMJ Open</i> , 2020, 10, e036897.	0.8	1
88	Twins in Guinea-Bissau have a "thin-fat" body composition compared to singletons. <i>Journal of Developmental Origins of Health and Disease</i> , 2022, 13, 787-793.	0.7	1
89	Maternal anxiety and competency of mothers of children with type 1 diabetes. <i>International Journal of Diabetes in Developing Countries</i> , 2019, 39, 245-246.	0.3	0
90	Intrauterine Exposure to Vitamin B12 and Folate Imbalance and Brain Structure in Young Adults of the Pune Maternal Nutrition Study (PMNS) Birth Cohort. <i>Current Developments in Nutrition</i> , 2021, 5, 894.	0.1	0

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91	FUT Genotypes, Secretor Status, H.pylori Antibody Levels and Vitamin-B12 Concentrations in Indians. Current Developments in Nutrition, 2021, 5, 951.	0.1	0
92	Robust determinants of neurocognitive development in children: evidence from the Pune Maternal Nutrition Study. Journal of Developmental Origins of Health and Disease, 2023, 14, 110-121.	0.7	0