Lorena Orozco

List of Publications by Year
in descending order

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109 papers	20,791 citations	109321 35 h-index	25787 108 g-index
121 all docs	121 docs citations	121 times ranked	44118 citing authors

#	Article	IF	Citations
1	Analysis of protein-coding genetic variation in 60,706 humans. Nature, 2016, 536, 285-291.	27.8	9,051
2	The mutational constraint spectrum quantified from variation in 141,456 humans. Nature, 2020, 581, 434-443.	27.8	6,140
3	A structural variation reference for medical and population genetics. Nature, 2020, 581, 444-451.	27.8	614
4	Sequence variants in SLC16A11 are a common risk factor for type 2 diabetes in Mexico. Nature, 2014, 506, 97-101.	27.8	439
5	The power of genetic diversity in genome-wide association studies of lipids. Nature, 2021, 600, 675-679.	27.8	353
6	Transancestral mapping and genetic load in systemic lupus erythematosus. Nature Communications, 2017, 8, 16021.	12.8	314
7	Exome sequencing of 20,791Âcases of type 2 diabetes and 24,440Âcontrols. Nature, 2019, 570, 71-76.	27.8	248
8	Association of a Low-Frequency Variant inHNF1AWith Type 2 Diabetes in a Latino Population. JAMA - Journal of the American Medical Association, 2014, 311, 2305.	7.4	230
9	Rare variants in PPARG with decreased activity in adipocyte differentiation are associated with increased risk of type 2 diabetes. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13127-13132.	7.1	152
10	Tuberculosis and impaired IL-23â€“dependent IFN-Î³ immunity in humans homozygous for a common TYK2 missense variant. Science Immunology, 2018, 3, .	11.9	148
11	Transcript expression-aware annotation improves rare variant interpretation. Nature, 2020, 581, 452-458.	27.8	142
12	Reconstruction of ancient microbial genomes from the human gut. Nature, 2021, 594, 234-239.	27.8	139
13	STAT4 associates with systemic lupus erythematosus through two independent effects that correlate with gene expression and act additively with IRF5 to increase risk. Annals of the Rheumatic Diseases, 2009, 68, 1746-1753.	0.9	138
14	Genomeâ€Wide Association Study in an Amerindian Ancestry Population Reveals Novel Systemic Lupus Erythematosus Risk Loci and the Role of European Admixture. Arthritis and Rheumatology, 2016, 68, 932-943.	5.6	138
15	Type 2 Diabetes Variants Disrupt Function of SLC16A11 through Two Distinct Mechanisms. Cell, 2017, 170, 199-212.e20.	28.9	121
16	Evaluating drug targets through human loss-of-function genetic variation. Nature, 2020, 581, 459-464.	27.8	115
17	Association of TLR7 copy number variation with susceptibility to childhood-onset systemic lupus erythematosus in Mexican population. Annals of the Rheumatic Diseases, 2010, 69, 1861-1865.	0.9	101
18	Evaluation of imputation-based association in and around the integrin-Â-M (ITGAM) gene and replication of robust association between a non-synonymous functional variant within ITGAM and systemic lupus erythematosus (SLE). Human Molecular Genetics, 2009, 18, 1171-1180.	2.9	100

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19	Associations of autozygosity with a broad range of human phenotypes. Nature Communications, 2019, 10, 4957.	12.8	84
20	Tumor necrosis factorâ€"Î± is a common genetic risk factor for asthma, juvenile rheumatoid arthritis, and systemic lupus erythematosus in a Mexican pediatric population. Human Immunology, 2009, 70, 251-256.	2.4	77
21	Genetic Variants Associated With Quantitative Glucose Homeostasis Traits Translate to Type 2 Diabetes in Mexican Americans: The GUARDIAN (Genetics Underlying Diabetes in Hispanics) Consortium. Diabetes, 2015, 64, 1853-1866.	0.6	77
22	Genetic association of IRF5 with SLE in Mexicans: higher frequency of the risk haplotype and its homozygozity than Europeans. Human Genetics, 2007, 121, 721-727.	3.8	72
23	Impact of genetic ancestry and sociodemographic status on the clinical expression of systemic lupus erythematosus in American Indianâ€"European populations. Arthritis and Rheumatism, 2012, 64, 3687-3694.	6.7	70
24	ERBIN deficiency links STAT3 and TGF-Î² pathway defects with atopy in humans. Journal of Experimental Medicine, 2017, 214, 669-680.	8.5	70
25	<scp>MiR</scp>â€146a polymorphism is associated with asthma but not with systemic lupus erythematosus and juvenile rheumatoid arthritis in Mexican patients. Tissue Antigens, 2012, 80, 317-321.	1.0	69
26	Allelic heterogeneity in NCF2 associated with systemic lupus erythematosus (SLE) susceptibility across four ethnic populations. Human Molecular Genetics, 2014, 23, 1656-1668.	2.9	67
27	Comparing signals of natural selection between three Indigenous North American populations. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9312-9317.	7.1	58
28	The NRF2 gene variant, -653G/A, is associated with nephritis in childhood-onset systemic lupus erythematosus. Lupus, 2010, 19, 1237-1242.	1.6	56
29	Association of PDCD1 polymorphisms with childhood-onset systemic lupus erythematosus. European Journal of Human Genetics, 2007, 15, 336-341.	2.8	53
30	A Loss-of-Function Splice Acceptor Variant in IGF2 Is Protective for Type 2 Diabetes. Diabetes, 2017, 66, 2903-2914.	0.6	52
31	Determinants of penetrance and variable expressivity in monogenic metabolic conditions across 77,184 exomes. Nature Communications, 2021, 12, 3505.	12.8	49
32	Impact of Gene Dosage on Gene Expression, Biological Processes and Survival in Cervical Cancer: A Genome-Wide Follow-Up Study. PLoS ONE, 2014, 9, e97842.	2.5	46
33	Demographic history and biologically relevant genetic variation of Native Mexicans inferred from whole-genome sequencing. Nature Communications, 2017, 8, 1005.	12.8	44
34	Amplified Genes May Be Overexpressed, Unchanged, or Downregulated in Cervical Cancer Cell Lines. PLoS ONE, 2012, 7, e32667.	2.5	43
35	Gender-Dependent Association of FTO Polymorphisms with Body Mass Index in Mexicans. PLoS ONE, 2016, 11, e0145984.	2.5	41
36	Association analysis of the PTPN22 gene in childhood-onset systemic lupus erythematosus in Mexican population. Genes and Immunity, 2006, 7, 693-695.	4.1	36

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37	Alport-Leiomyomatosis Syndrome: An Update. American Journal of Kidney Diseases, 1993, 22, 641-648.	1.9	34
38	Seasonal and pandemic influenza H1N1 viruses induce differential expression of SOCS-1 and RIG-I genes and cytokine/chemokine production in macrophages. Cytokine, 2013, 62, 151-159.	3.2	34
39	Circulating levels of miR-150 are associated with poorer outcomes of A/H1N1 infection. Experimental and Molecular Pathology, 2015, 99, 253-261.	2.1	33
40	BCR-ABL, ETV6-RUNX1 and E2A-PBX1: Prevalence of the most common acute lymphoblastic leukemia fusion genes in Mexican patients. Leukemia Research, 2008, 32, 1518-1522.	0.8	32
41	Heterogenous Distribution of MTHFR Gene Variants among Mestizos and Diverse Amerindian Groups from Mexico. PLoS ONE, 2016, 11, e0163248.	2.5	32
42	Altered DNA methylation in liver and adipose tissues derived from individuals with obesity and type 2 diabetes. BMC Medical Genetics, 2018, 19, 28.	2.1	32
43	Clinical and Immunological Factors That Distinguish COVID-19 From Pandemic Influenza A(H1N1). Frontiers in Immunology, 2021, 12, 593595.	4.8	32
44	Metabolic syndrome in indigenous communities in Mexico: a descriptive and cross-sectional study. BMC Public Health, 2020, 20, 339.	2.9	30
45	Curcumin induces p53-independent inactivation of Nrf2 during oxidative stressâ€“induced apoptosis. Human and Experimental Toxicology, 2019, 38, 951-961.	2.2	28
46	The genomic landscape of Mexican Indigenous populations brings insights into the peopling of the Americas. Nature Communications, 2021, 12, 5942.	12.8	28
47	Juvenile rheumatoid arthritis and asthma, but not childhood-onset systemic lupus erythematosus are associated with FCRL3 polymorphisms in Mexicans. Molecular Immunology, 2013, 53, 374-378.	2.2	26
48	Curcumin differentially affects cell cycle and cell death in acute and chronic myeloid leukemia cells. Oncology Letters, 2018, 15, 6777-6783.	1.8	26
49	Spectrum of CFTR mutations in Mexican cystic fibrosis patients: identification of five novel mutations (W1098C, 846delT, P750L, 4160insGGGG and 297-1Gâ†'A). Human Genetics, 2000, 106, 360-365.	3.8	25
50	Association of HMOX1 and NQO1 Polymorphisms with Metabolic Syndrome Components. PLoS ONE, 2015, 10, e0123313.	2.5	25
51	The role of oxidant stress and gender in the erythrocyte arginine metabolism and ammonia management in patients with type 2 diabetes. PLoS ONE, 2019, 14, e0219481.	2.5	25
52	WNT3A gene polymorphisms are associated with bone mineral density variation in postmenopausal mestizo women of an urban Mexican population: findings of a pathway-based high-density single nucleotide screening. Age, 2014, 36, 9635.	3.0	24
53	Association between Vitamin D Deficiency and Single Nucleotide Polymorphisms in the Vitamin D Receptor and GC Genes and Analysis of Their Distribution in Mexican Postmenopausal Women. Nutrients, 2018, 10, 1175.	4.1	24
54	Rare coding variants in 35 genes associate with circulating lipid levelsâ€"A multi-ancestry analysis of 170,000 exomes. American Journal of Human Genetics, 2022, 109, 81-96.	6.2	24

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55	Genetic discovery and risk characterization in type 2 diabetes across diverse populations. Human Genetics and Genomics Advances, 2021, 2, 100029.	1.7	23
56	Polymorphisms in metalloproteinase-9 are associated with the risk for asthma in Mexican pediatric patients. Human Immunology, 2013, 74, 998-1002.	2.4	22
57	Influence of obesity, parental history of diabetes, and genes in type 2 diabetes: A case-control study. Scientific Reports, 2019, 9, 2748.	3.3	21
58	The NRF2-KEAP1 Pathway Is an Early Responsive Gene Network in Arsenic Exposed Lymphoblastoid Cells. PLoS ONE, 2014, 9, e88069.	2.5	20
59	Genomewide admixture study in Mexican Mestizos with multiple sclerosis. Clinical Neurology and Neurosurgery, 2015, 130, 55-60.	1.4	20
60	Spectrum of RB1 gene mutations and loss of heterozygosity in Mexican patients with retinoblastoma: Identification of six novel mutations. Cancer Biomarkers, 2008, 4, 93-99.	1.7	18
61	Gene variants in AKT1, GCKR and SOCS3 are differentially associated with metabolic traits in Mexican Amerindians and Mestizos. Gene, 2018, 679, 160-171.	2.2	17
62	Expression of USP18 and IL2RA Is Increased in Individuals Receiving Latent Tuberculosis Treatment with Isoniazid. Journal of Immunology Research, 2019, 2019, 1-13.	2.2	16
63	A Subpopulation of the K562 Cells Are Killed by Curcumin Treatment after G2/M Arrest and Mitotic Catastrophe. PLoS ONE, 2016, 11, e0165971.	2.5	15
64	Variation in Actionable Pharmacogenetic Markers in Natives and Mestizos From Mexico. Frontiers in Pharmacology, 2019, 10, 1169.	3.5	15
65	Analysis of the dynamic aberrant landscape of DNA methylation and gene expression during arsenic-induced cell transformation. Gene, 2019, 711, 143941.	2.2	14
66	Association between APOE polymorphisms and lipid profile in Mexican Amerindian population. Molecular Genetics & Genomic Medicine, 2019, 7, e958.	1.2	13
67	Towards precision medicine: defining and characterizing adipose tissue dysfunction to identify early immunometabolic risk in symptom-free adults from the GEMM family study. Adipocyte, 2020, 9, 153-169.	2.8	13
68	Small <scp>MAF</scp> genes variants and chronic myeloid leukemia. European Journal of Haematology, 2014, 92, 35-41.	2.2	12
69	SPINK5andADRB2haplotypes are risk factors for asthma in Mexican pediatric patients. Journal of Asthma, 2015, 52, 232-239.	1.7	12
70	Ataxia-pancytopenia syndrome. American Journal of Medical Genetics Part A, 2000, 90, 252-254.	2.4	11
71	A transcriptome-based model of central memory CD4 T cell death in HIV infection. BMC Genomics, 2016, 17, 956.	2.8	11
72	GSTT1 and GSTM1 null variants in Mestizo and Amerindian populations from northwestern Mexico and a literature review. Genetics and Molecular Biology, 2017, 40, 727-735.	1.3	11

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73	Catalytically Impaired TYK2 Variants are Protective Against Childhood- and Adult-Onset Systemic Lupus Erythematosus in Mexicans. Scientific Reports, 2019, 9, 12165.	3.3	11
74	The PXR rs7643645 Polymorphism Is Associated with the Risk of Higher Prostate-Specific Antigen Levels in Prostate Cancer Patients. PLoS ONE, 2014, 9, e99974.	2.5	11
75	The rs61764370 Functional Variant in the KRAS Oncogene is Associated with Chronic Myeloid Leukemia Risk in Women. Asian Pacific Journal of Cancer Prevention, 2016, 17, 2265-2270.	1.2	11
76	Transcriptome landmarks of the functional maturity of rat beta-cells, from lactation to adulthood. Journal of Molecular Endocrinology, 2016, 57, 45-59.	2.5	10
77	Deep Multi-OMICs and Multi-Tissue Characterization in a Pre- and Postprandial State in Human Volunteers: The GEMM Family Study Research Design. Genes, 2018, 9, 532.	2.4	10
78	CFTR allelic heterogeneity in Mexican patients with cystic fibrosis: implications for molecular screening. Revista De Investigacion Clinica, 2010, 62, 546-52.	0.4	10
79	Molecular diagnosis of the fragile X and FRAXE syndromes in patients with mental retardation of unknown cause in Mexico. Annales De GÃ©nÃ©tique, 2000, 43, 29-34.	0.4	9
80	Carrier detection and prenatal molecular diagnosis in a Duchenne muscular dystrophy family without any affected relative available. Annales De GÃ©nÃ©tique, 2001, 44, 149-153.	0.4	9
81	A homozygous CEP57 c.915_925dupCAATGTTCAGC mutation in a patient with mosaic variegated aneuploidy syndrome with rhizomelic shortening in the upper and lower limbs and a narrow thorax. European Journal of Medical Genetics, 2019, 62, 195-197.	1.3	8
82	Whole genome variation in 27 Mexican indigenous populations, demographic and biomedical insights. PLoS ONE, 2021, 16, e0249773.	2.5	8
83	Identification of the I507 deletion by site-directed mutagenesis. American Journal of Medical Genetics Part A, 1994, 51, 137-139.	2.4	7
84	CHRM2 but not CHRM1 or CHRM3 polymorphisms are associated with asthma susceptibility in Mexican patients. Molecular Biology Reports, 2014, 41, 2109-2117.	2.3	7
85	HMOX1 promoter (GT)n polymorphim is associated with childhood-onset systemic lupus erythematosus but not with juvenile rheumatoid arthritis in a Mexican population. Clinical and Experimental Rheumatology, 2012, 30, 297-301.	0.8	7
86	Dysferlinopathy misdiagnosed with juvenile polymyositis in the pre-symptomatic stage of hyperCKemia: a case report and literature review. BMC Medical Genomics, 2022, 15, .	1.5	7
87	Association between vitamin D deficiency and common variants of Vitamin D binding protein gene among Mexican Mestizo and indigenous postmenopausal women. Journal of Endocrinological Investigation, 2020, 43, 935-946.	3.3	6
88	Nuclear factor erythroid 2-related factor gene variants and susceptibility of arsenic-related skin lesions. Human and Experimental Toxicology, 2014, 33, 582-589.	2.2	5
89	Pro-adhesive phenotype of normal endothelial cells responding to metastatic breast cancer cell conditioned medium is linked to NFÎºB-mediated transcriptomic regulation. International Journal of Oncology, 2016, 49, 2173-2185.	3.3	5
90	A homozygous mutation in the PSMB8 gene in a case with proteasome-associated autoinflammatory syndrome. Scandinavian Journal of Rheumatology, 2018, 47, 251-254.	1.1	5

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91	Genetic variability of five ADRB2 polymorphisms among Mexican Amerindian ethnicities and the Mestizo population. PLoS ONE, 2019, 14, e0225030.	2.5	5
92	Two novel variants in DYRK1B causative of AOMS3: expanding the clinical spectrum. Orphanet Journal of Rare Diseases, 2021, 16, 291.	2.7	5
93	Alterations of DNA methylation during adipogenesis differentiation of mesenchymal stem cells isolated from adipose tissue of patients with obesity is associated with type 2 diabetes. Adipocyte, 2021, 10, 493-504.	2.8	5
94	Two novel frameshift deletions (1924del7, 2055del9â†'A) in the CFTR gene in Mexican cystic fibrosis patients. Human Mutation, 1997, 10, 239-240.	2.5	4
95	Three novel mutations in the COL4A5 gene in Mexican Alport syndrome patients. Clinical Genetics, 1999, 56, 242-243.	2.0	4
96	Association study of DRD3 gene in schizophrenia in Mexican sib-pairs. Psychiatry Research, 2011, 190, 367-368.	3.3	4
97	NFE2L2Gene Variants and Arsenic Susceptibility: A Lymphoblastoid Model. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2015, 78, 628-634.	2.3	4
98	Origin of the myotonic dystrophy type 1 mutation in Mexican population and influence of Amerindian ancestry on CTG repeat allelic distribution. Neuromuscular Disorders, 2017, 27, 1106-1114.	0.6	4
99	XV-2c/KM-19 haplotype analysis of cystic fibrosis mutations in Mexican patients. American Journal of Medical Genetics Part A, 2001, 102, 277-281.	2.4	3
100	Molecular Screening of theCFTRGene in Mexican Patients with Congenital Absence of the Vas Deferens. Genetic Testing and Molecular Biomarkers, 2012, 16, 292-296.	0.7	3
101	Detection of the cystic fibrosis delta-F508 mutation at autopsy by site-directed mutagenesis. American Journal of Medical Genetics Part A, 1993, 46, 268-270.	2.4	2
102	Mild cystic fibrosis disease in three Mexican deltaâ€F508/G551S compound heterozygous siblings. Clinical Genetics, 1995, 47, 96-98.	2.0	2
103	ALOX5,LPA,MMP9andTPOgene polymorphisms increase atherothrombosis susceptibility in middle-aged Mexicans. Royal Society Open Science, 2020, 7, 190775.	2.4	2
104	Influence of SNPs in Genes that Modulate Lung Disease Severity in a Group of Mexican Patients with Cystic Fibrosis. Archives of Medical Research, 2018, 49, 18-26.	3.3	1
105	Next-generation sequencing for identifying a novel/de novo pathogenic variant in a Mexican patient with cystic fibrosis: a case report. BMC Medical Genomics, 2019, 12, 68.	1.5	1
106	The L125F MATE1 variant enriched in populations of Amerindian origin is associated with increased plasma levels of metformin and lactate. Biomedicine and Pharmacotherapy, 2021, 142, 112009.	5.6	1
107	Genetic Distribution of Five Spinocerebellar Ataxia Microsatellite Loci in Mexican Native American Populations and Its Impact on Contemporary Mestizo Populations. Genes, 2022, 13, 157.	2.4	1
108	Exome Sequencing Data Analysis and a Case-Control Study in Mexican Population Reveals Lipid Trait Associations of New and Known Genetic Variants in Dyslipidemia-Associated Loci. Frontiers in Genetics, 2022, 13, .	2.3	1

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109	Replication of Integrative Data Analysis for Adipose Tissue Dysfunction, Low-Grade Inflammation, Postprandial Responses and OMICs Signatures in Symptom-Free Adults. Biology, 2021, 10, 1342.	2.8	0