## Tobias L Lenz

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5842802/publications.pdf

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57	5,481	33	58
papers	citations	h-index	g-index
65	65	65	11231
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Genomewide Association Study of Severe Covid-19 with Respiratory Failure. New England Journal of Medicine, 2020, 383, 1522-1534.	13.9	1,548
2	Additive and interaction effects at three amino acid positions in HLA-DQ and HLA-DR molecules drive type 1 diabetes risk. Nature Genetics, 2015, 47, 898-905.	9.4	235
3	Rapid and adaptive evolution of MHC genes under parasite selection in experimental vertebrate populations. Nature Communications, 2012, 3, 621.	5.8	231
4	Genome analysis reveals insights into physiology and longevity of the Brandt's bat Myotis brandtii. Nature Communications, 2013, 4, 2212.	5.8	213
5	Evolutionary divergence of HLA class I genotype impacts efficacy of cancer immunotherapy. Nature Medicine, 2019, 25, 1715-1720.	15.2	194
6	Advances in the Evolutionary Understanding of MHC Polymorphism. Trends in Genetics, 2020, 36, 298-311.	2.9	188
7	Widespread non-additive and interaction effects within HLA loci modulate the risk of autoimmune diseases. Nature Genetics, 2015, 47, 1085-1090.	9.4	164
8	Simple approach to reduce PCR artefact formation leads to reliable genotyping of MHC and other highly polymorphic loci â€" Implications for evolutionary analysis. Gene, 2008, 427, 117-123.	1.0	155
9	MHCâ€based mate choice combines good genes and maintenance of MHC polymorphism. Molecular Ecology, 2009, 18, 3316-3329.	2.0	154
10	Polymorphisms of large effect explain the majority of the host genetic contribution to variation of HIV-1 virus load. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14658-14663.	3.3	154
11	Genomics of Divergence along a Continuum of Parapatric Population Differentiation. PLoS Genetics, 2015, 11, e1004966.	1.5	135
12	Divergent selection on locally adapted major histocompatibility complex immune genes experimentally proven in the field. Ecology Letters, 2012, 15, 723-731.	3.0	134
13	Divergent Allele Advantage at Human MHC Genes: Signatures of Past and Ongoing Selection. Molecular Biology and Evolution, 2018, 35, 2145-2158.	3.5	128
14	Human leukocyte antigen variation is associated with adverse events of checkpoint inhibitors. European Journal of Cancer, 2019, 107, 8-14.	1.3	127
15	Parasite diversity, patterns of MHC II variation and olfactory based mate choice in diverging three-spined stickleback ecotypes. Evolutionary Ecology, 2011, 25, 605-622.	0.5	110
16	Improved prediction of immune checkpoint blockade efficacy across multiple cancer types. Nature Biotechnology, 2022, 40, 499-506.	9.4	110
17	Major histocompatibility complex polymorphism: dynamics and consequences of parasiteâ€mediated local adaptation in fishes. Journal of Fish Biology, 2010, 77, 2023-2047.	0.7	96
18	Speciation accelerated and stabilized by pleiotropic major histocompatibility complex immunogenes. Ecology Letters, 2009, 12, 5-12.	3.0	90

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19	Genes with monoallelic expression contribute disproportionately to genetic diversity in humans. Nature Genetics, 2016, 48, 231-237.	9.4	83
20	Exploring local immunological adaptation of two stickleback ecotypes by experimental infection and transcriptomeâ€wide digital gene expression analysis. Molecular Ecology, 2013, 22, 774-786.	2.0	79
21	COMPUTATIONAL PREDICTION OF MHC II-ANTIGEN BINDING SUPPORTS DIVERGENT ALLELE ADVANTAGE AND EXPLAINS TRANS-SPECIES POLYMORPHISM. Evolution; International Journal of Organic Evolution, 2011, 65, 2380-2390.	1.1	78
22	Genomeâ€wide patterns of standing genetic variation in a marine population of threeâ€spined sticklebacks. Molecular Ecology, 2013, 22, 635-649.	2.0	78
23	Extensive Copy-Number Variation of Young Genes across Stickleback Populations. PLoS Genetics, 2014, 10, e1004830.	1.5	70
24	Ancient DNA study reveals HLA susceptibility locus for leprosy in medieval Europeans. Nature Communications, 2018, 9, 1569.	5.8	67
25	HLA Heterozygote Advantage against HIV-1 Is Driven by Quantitative and Qualitative Differences in HLA Allele-Specific Peptide Presentation. Molecular Biology and Evolution, 2020, 37, 639-650.	3.5	60
26	Pathogen diversity drives the evolution of generalist MHC-II alleles in human populations. PLoS Biology, 2019, 17, e3000131.	2.6	56
27	Excess of Deleterious Mutations around HLA Genes Reveals Evolutionary Cost of Balancing Selection. Molecular Biology and Evolution, 2016, 33, 2555-2564.	3.5	55
28	Diverse MHC IIB allele repertoire increases parasite resistance and body condition in the Long-tailed giant rat (Leopoldamys sabanus). BMC Evolutionary Biology, 2009, 9, 269.	3.2	54
29	Divergent allele advantage at MHC-DRB through direct and maternal genotypic effects and its consequences for allele pool composition and mating. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20130714.	1,2	54
30	Transcriptome profiling of immune tissues reveals habitatâ€specific gene expression between lake and river sticklebacks. Molecular Ecology, 2016, 25, 943-958.	2.0	49
31	Construction and benchmarking of a multi-ethnic reference panel for the imputation of HLA class I and II alleles. Human Molecular Genetics, 2019, 28, 2078-2092.	1.4	48
32	EVALUATING PATTERNS OF CONVERGENT EVOLUTION AND TRANS-SPECIES POLYMORPHISM AT MHC IMMUNOGENES IN TWO SYMPATRIC STICKLEBACK SPECIES. Evolution; International Journal of Organic Evolution, 2013, 67, 2400-2412.	1.1	43
33	RSCA genotyping of MHC for high-throughput evolutionary studies in the model organism three-spined stickleback Gasterosteus aculeatus. BMC Evolutionary Biology, 2009, 9, 57.	3.2	39
34	Experimental parasite infection reveals costs and benefits of paternal effects. Ecology Letters, 2014, 17, 1409-1417.	3.0	29
35	Manipulating sex ratio to increase population growth: the example of the Lesser Kestrel. Animal Conservation, 2007, 10, 236-244.	1.5	28
36	Disentangling the role of MHCâ€dependent †good genes' and †compatible genes' in mateâ€choice decisions of threeâ€spined sticklebacks <i>Gasterosteus aculeatus</i> under semiâ€natural conditions. Journal of Fish Biology, 2009, 75, 2122-2142.	0.7	28

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37	The similarity of class II HLA genotypes defines patterns of autoreactivity in idiopathic bone marrow failure disorders. Blood, 2021, 138, 2781-2798.	0.6	27
38	Cryptic haplotype-specific gamete selection yields offspring with optimal MHC immune genes. Evolution; International Journal of Organic Evolution, 2018, 72, 2478-2490.	1.1	26
39	HIV peptidome-wide association study reveals patient-specific epitope repertoires associated with HIV control. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 944-949.	3.3	26
40	Sperm velocity in an Alpine whitefish: effects of age, size, condition, fluctuating asymmetry and gonad abnormalities. Journal of Fish Biology, 2007, 71, 672-683.	0.7	25
41	Adaptive value of novel MHC immune gene variants. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1414-1416.	3.3	22
42	Common Denominators in the Immunobiology of IgG4 Autoimmune Diseases: What Do Glomerulonephritis, Pemphigus Vulgaris, Myasthenia Gravis, Thrombotic Thrombocytopenic Purpura and Autoimmune Encephalitis Have in Common?. Frontiers in Immunology, 2020, 11, 605214.	2.2	21
43	Genome-wide study of a Neolithic Wartberg grave community reveals distinct HLA variation and hunter-gatherer ancestry. Communications Biology, 2021, 4, 113.	2.0	20
44	A field reciprocal transplant experiment reveals asymmetric costs of migration between lake and river ecotypes of threeâ€spined sticklebacks ( <i>Gasterosteus aculeatus</i> ). Journal of Evolutionary Biology, 2017, 30, 938-950.	0.8	19
45	Transethnic analysis of the human leukocyte antigen region for ulcerative colitis reveals not only shared but also ethnicity-specific disease associations. Human Molecular Genetics, 2021, 30, 356-369.	1.4	19
46	Genome-Wide Genotype-Expression Relationships Reveal Both Copy Number and Single Nucleotide Differentiation Contribute to Differential Gene Expression between Stickleback Ecotypes. Genome Biology and Evolution, 2019, 11, 2344-2359.	1.1	16
47	Experimental Parasite Infection Causes Genome-Wide Changes in DNA Methylation. Molecular Biology and Evolution, 2020, 37, 2287-2299.	3.5	16
48	Induction of diploid gynogenesis in an evolutionary model organism, the three-spined stickleback (Gasterosteus aculeatus). BMC Developmental Biology, 2011, 11, 55.	2.1	12
49	The contribution of post-copulatory mechanisms to incipient ecological speciation in sticklebacks. Biology Letters, 2015, 11, 20140933.	1.0	9
50	Transcription in space – environmental vs. genetic effects on differential immune gene expression. Molecular Ecology, 2015, 24, 4583-4585.	2.0	8
51	Unique Pathogen Peptidomes Facilitate Pathogen-Specific Selection and Specialization of MHC Alleles. Molecular Biology and Evolution, 2021, 38, 4376-4387.	3.5	7
52	Targeted analysis of polymorphic loci from low-coverage shotgun sequence data allows accurate genotyping of HLA genes in historical human populations. Scientific Reports, 2020, 10, 7339.	1.6	6
53	Presence of autoantibodies in serum does not impact the occurrence of immune checkpoint inhibitor-induced hepatitis in a prospective cohort of cancer patients. Journal of Cancer Research and Clinical Oncology, 2022, 148, 647-656.	1.2	6
54	Ancient DNA Study in Medieval Europeans Shows an Association Between HLA-DRB1*03 and Paratyphoid Fever. Frontiers in Immunology, 2021, 12, 691475.	2.2	3

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55	Immunopeptidomics toolkit library (IPTK): a python-based modular toolbox for analyzing immunopeptidomics data. BMC Bioinformatics, 2021, 22, 405.	1.2	3
56	Uterine selection for immunocompetent offspring. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E253-E253.	3.3	1
57	The One Past Health workshop: connecting ancient DNA and zoonosis research. BioEssays, 2017, 39, 1700075.	1.2	1