Lutz Walter

List of Publications by Year
in descending order

113 papers	5,018 citations	101384 36 h-index	106150 65 g-index
182 all docs	182 docs citations	182 times ranked	6703 citing authors

#	Article	IF	Citations
1	Comparative genomics of major histocompatibility complexes. Immunogenetics, 2005, 56, 683-695.	1.2	350
2	Gibbon genome and the fast karyotype evolution of small apes. Nature, 2014, 513, 195-201.	13.7	320
3	Human box C/D snoRNAs with miRNA like functions: expanding the range of regulatory RNAs. Nucleic Acids Research, 2011, 39, 675-686.	6.5	276
4	Comparative Genomics of Natural Killer Cell Receptor Gene Clusters. PLoS Genetics, 2005, 1, e27.	1.5	252
5	Sustained virologic control in SIV ⁺ macaques after antiretroviral and Î± ₄ Î² ₇ antibody therapy. Science, 2016, 354, 197-202.	6.0	194
6	Butyrophilin-2A1 Directly Binds Germline-Encoded Regions of the VÎ³9VÎ´2 TCR and Is Essential for Phosphoantigen Sensing. Immunity, 2020, 52, 487-498.e6.	6.6	164
7	Targeting Î±4Î²7 integrin reduces mucosal transmission of simian immunodeficiency virus and protects gut-associated lymphoid tissue from infection. Nature Medicine, 2014, 20, 1397-1400.	15.2	134
8	The Heat Shock Protein HSP70 Promotes Mouse NK Cell Activity against Tumors That Express Inducible NKG2D Ligands. Journal of Immunology, 2007, 179, 5523-5533.	0.4	128
9	Nuclear versus mitochondrial DNA: evidence for hybridization in colobine monkeys. BMC Evolutionary Biology, 2011, 11, 77.	3.2	123
10	Mitochondrial evidence for multiple radiations in the evolutionary history of small apes. BMC Evolutionary Biology, 2010, 10, 74.	3.2	111
11	The Genomic Sequence and Comparative Analysis of the Rat Major Histocompatibility Complex. Genome Research, 2004, 14, 631-639.	2.4	108
12	The major histocompatibility complex of the rat (Rattus norvegicus). Immunogenetics, 2001, 53, 520-542.	1.2	106
13	Genetic aspects of the hsp70 multigene family in vertebrates. Experientia, 1994, 50, 987-1001.	1.2	102
14	Phylogenetic position of the langur genera Semnopithecus and Trachypithecus among Asian colobines, and genus affiliations of their species groups. BMC Evolutionary Biology, 2008, 8, 58.	3.2	94
15	Molecular phylogeny and evolutionary history of Southeast Asian macaques forming the M. silenus group. Molecular Phylogenetics and Evolution, 2007, 42, 807-816.	1.2	89
16	Comparative analysis of the three major histocompatibility complex-linked heat shock protein 70 (Hsp70) genes of the rat. Immunogenetics, 1994, 40, 325-330.	1.2	84
17	Nomenclature report on the major histocompatibility complex genes and alleles of Great Ape, Old and New World monkey species. Immunogenetics, 2012, 64, 615-631.	1.2	82
18	The MICAâ€129 dimorphism affects NKG2D signaling and outcome of hematopoietic stem cell transplantation. EMBO Molecular Medicine, 2015, 7, 1480-1502.	3.3	81

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19	Activity-dependent regulation of MHC class I expression in the developing primary visual cortex of the common marmoset monkey. Behavioral and Brain Functions, 2011, 7, 1.	1.4	69
20	ILâ€12 and ILâ€15 induce the expression of CXCR6 and CD49a on peripheral natural killer cells. Immunity, Inflammation and Disease, 2018, 6, 34-46.	1.3	66
21	A Novel System of Polymorphic and Diverse NK Cell Receptors in Primates. PLoS Genetics, 2009, 5, e1000688.	1.5	64
22	Ageing-associated DNA methylation dynamics are a molecular readout of lifespan variation among mammalian species. Genome Biology, 2018, 19, 22.	3.8	62
23	Retropositional events consolidate the branching order among New World monkey genera. Molecular Phylogenetics and Evolution, 2009, 50, 507-513.	1.2	60
24	Molecular phylogeny and taxonomic revision of the sportive lemurs (Lepilemur, Primates). BMC Evolutionary Biology, 2006, 6, 17.	3.2	59
25	VÎ³9 and VÎ´2 T cell antigen receptor genes and butyrophilin 3 (BTN3) emerged with placental mammals and are concomitantly preserved in selected species like alpaca (Vicugna pacos). Immunogenetics, 2014, 66, 243-254.	1.2	58
26	Characterization of rhesus macaque KIR genotypes and haplotypes. Immunogenetics, 2010, 62, 281-293.	1.2	57
27	Mitochondrial phylogeny, taxonomy and biogeography of the silvered langur species group (Trachypithecus cristatus). Molecular Phylogenetics and Evolution, 2008, 47, 629-636.	1.2	53
28	The MICA-129Met/Val dimorphism affects plasma membrane expression and shedding of the NKG2D ligand MICA. Immunogenetics, 2016, 68, 109-123.	1.2	53
29	Human Induced Pluripotent Stem Cells Are Targets for Allogeneic and Autologous Natural Killer (NK) Cells and Killing Is Partly Mediated by the Activating NK Receptor DNAM-1. PLoS ONE, 2015, 10, e0125544.	1.1	48
30	Type 1 Diabetes in BioBreeding Rats Is Critically Linked to an Imbalance between Th17 and Regulatory T Cells and an Altered TCR Repertoire. Journal of Immunology, 2010, 185, 2285-2294.	0.4	47
31	Phylogeny and distribution of crested gibbons (genus Nomascus) based on mitochondrial cytochrome b gene sequence data. American Journal of Primatology, 2010, 72, 1047-1054.	0.8	44
32	Comprehensive identification of genes driven by ERV9-LTRs reveals TNFRSF10B as a re-activatable mediator of testicular cancer cell death. Cell Death and Differentiation, 2016, 23, 64-75.	5.0	39
33	Identification of a Novel Conserved Human Gene, TEGT. Genomics, 1995, 28, 301-304.	1.3	38
34	Physical mapping and evolution of the centromeric class I gene-containing region of the rat MHC. Immunogenetics, 2000, 51, 829-837.	1.2	38
35	A Small, Variable, and Irregular Killer Cell Ig-Like Receptor Locus Accompanies the Absence of MHC-C and MHC-G in Gibbons. Journal of Immunology, 2010, 184, 1379-1391.	0.4	38
36	Human-specific CpG â€œbeaconsâ€•identify loci associated with human-specific traits and disease. Epigenetics, 2012, 7, 1188-1199.	1.3	38

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37	Natural Killer Group 2D Ligand Depletion Reconstitutes Natural Killer Cell Immunosurveillance of Head and Neck Squamous Cell Carcinoma. Frontiers in Immunology, 2017, 8, 387.	2.2	38
38	A novel, conserved gene of the rat that is developmentally regulated in the testis. Mammalian Genome, 1994, 5, 216-221.	1.0	37
39	The endogenous danger signals HSP70 and MICA cooperate in the activation of cytotoxic effector functions of NK cells. Journal of Cellular and Molecular Medicine, 2010, 14, 992-1002.	1.6	36
40	Physical Map and Expression Profile of Genes of the Telomeric Class I Gene Region of the Rat MHC. Journal of Immunology, 2001, 166, 3957-3965.	0.4	33
41	Rhesus Macaque Inhibitory and Activating KIR3D Interact with Mamu-Aâ€“Encoded Ligands. Journal of Immunology, 2011, 186, 2156-2163.	0.4	32
42	Heat Shock Protein 70 Is Able to Prevent Heat Shock-Induced Resistance of Target Cells to CTL. Journal of Immunology, 2000, 164, 2362-2371.	0.4	31
43	Neuronal MHC Class I Molecules are Involved in Excitatory Synaptic Transmission at the Hippocampal Mossy Fiber Synapses of Marmoset Monkeys. Cellular and Molecular Neurobiology, 2010, 30, 827-839.	1.7	29
44	Enhanced susceptibility to cytotoxic T lymphocytes without increase of MHC class I antigen expression after conditional overexpression of heat shock protein 70 in target cells. European Journal of Immunology, 1999, 29, 3925-3935.	1.6	28
45	MHC and KIR Polymorphisms in Rhesus Macaque SIV Infection. Frontiers in Immunology, 2015, 6, 540.	2.2	28
46	Genomic and funtional aspects of the rat MHC, the RT1 complex. Immunological Reviews, 2001, 184, 82-95.	2.8	27
47	In Vivo Administration of a JAK3 Inhibitor during Acute SIV Infection Leads to Significant Increases in Viral Load during Chronic Infection. PLoS Pathogens, 2014, 10, e1003929.	2.1	27
48	Progression to AIDS in SIV-Infected Rhesus Macaques is Associated with Distinct KIR and MHC class I Polymorphisms and NK Cell Dysfunction. Frontiers in Immunology, 2014, 5, 600.	2.2	27
49	Differential expression of major histocompatibility complex class I molecules in the brain of a New World monkey, the common marmoset (Callithrix jacchus). Journal of Neuroimmunology, 2006, 176, 39-50.	1.1	26
50	Umbilical cord blood-derived ILC1-like cells constitute a novel precursor for mature KIR+NKG2A- NK cells. ELife, 2020, 9, .	2.8	25
51	Isolation and molecular characterization of the rat MR1 homologue, a non-MHC-linked class I-related gene. Immunogenetics, 1998, 47, 477-482.	1.2	24
52	Genomic organization and sequence of the rat major histocompatibility complex class Ia gene RT1.A u. Immunogenetics, 1995, 41, 332.	1.2	22
53	A splice-supporting intronic mutation in the last bp position of a cryptic exon within intron 6 of the CYBB gene induces its incorporation into the mRNA causing chronic granulomatous disease (CGD). Gene, 2006, 371, 174-181.	1.0	22
54	Genomic Sequence Analysis of the MHC Class I G/F Segment in Common Marmoset (<i>Callithrix) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.4	22

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55	Differential effect of acute and permanent heat shock protein 70 overexpression in tumor cells on lysability by cytotoxic T lymphocytes. Cancer Research, 2003, 63, 8212-20.	0.4	22
56	Comparative genome analysis of the major histocompatibility complex (MHC) class I B/C segments in primates elucidated by genomic sequencing in common marmoset (Callithrix jacchus). Immunogenetics, 2011, 63, 485-499.	1.2	21
57	Human-specific epigenetic variation in the immunological Leukotriene B4 Receptor (LTB4R/BLT1) implicated in common inflammatory diseases. Genome Medicine, 2014, 6, 19.	3.6	21
58	Physical mapping of theRing1, Ring2, Ke6, Ke4, Rxrb, Col11a2, andRT1.Hb genes in the rat major histocompatibility complex. Immunogenetics, 1996, 44, 218-221.	1.2	20
59	Cytogenetic orientation of the rat major histocompatibility complex (MHC) on chromosome 20. Immunogenetics, 1997, 47, 166-169.	1.2	20
60	Considerable haplotypic diversity in the RT1-CE class I gene region of the rat major histocompatibility complex. Immunogenetics, 2005, 56, 773-777.	1.2	20
61	Rhesus macaque MHC class I molecules show differential subcellular localizations. Immunogenetics, 2010, 62, 149-158.	1.2	20
62	Major histocompatibility complex-linked MIC genes in rhesus macaques and other primates. Immunogenetics, 1999, 50, 358-362.	1.2	19
63	Comparative genomics of theMill family: a rapidly evolving MHC classâ€„I gene family. European Journal of Immunology, 2004, 34, 1597-1607.	1.6	19
64	A novel discoidin domain receptor 1 (Ddr1) transcript is expressed in postmeiotic germ cells of the rat testis depending on the major histocompatibility complex haplotype. Gene, 2006, 372, 53-61.	1.0	19
65	Genomics and Diversity of the Common Marmoset Monkey NK Complex. Journal of Immunology, 2007, 178, 7151-7161.	0.4	19
66	Sequence, expression, and mapping of a rat Mhc class I b gene. Immunogenetics, 1994, 39, 351-4.	1.2	18
67	Different subcellular localisations of TRIM22 suggest species-specific function. Immunogenetics, 2009, 61, 271-280.	1.2	18
68	Diversification of both <scp>KIR</scp> and <scp>NKG</scp>2</i€ natural killer cell receptor genes in macaques â€“ implications for highly complex <scp>MHC</scp>â€dependent regulation of natural killer cells. Immunology, 2017, 150, 139-145.	2.0	18
69	Genomic analysis of MIC genes in rhesus macaques. Tissue Antigens, 2001, 58, 159-165.	1.0	17
70	Sequence analysis of the grey mouse lemur (Microcebus murinus) MHC class II DQ and DR region. Immunogenetics, 2011, 63, 85-93.	1.2	17
71	Nomenclature report 2019: major histocompatibility complex genes and alleles of Great and Small Ape and Old and New World monkey species. Immunogenetics, 2020, 72, 25-36.	1.2	17
72	Rhesus macaque KIR bind human MHC class I with broad specificity and recognize HLA-C more effectively than HLA-A and HLA-B. Immunogenetics, 2011, 63, 577-585.	1.2	16

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73	Transcriptional and functional characterization of neonatal circulating Innate Lymphoid Cells. Stem Cells Translational Medicine, 2021, 10, 867-882.	1.6	16
74	Identification of a Novel Highly Conserved Gene in the Centromeric Part of the Major Histocompatibility Complex. Genomics, 1998, 52, 298-304.	1.3	15
75	Characterization and Phylogenetic Relationship of Prosimian MHC Class I Genes. Journal of Molecular Evolution, 2002, 55, 768-775.	0.8	15
76	MHC class I genes of the tree shrew Tupaia belangeri. Immunogenetics, 2002, 53, 984-988.	1.2	15
77	Physical mapping of the major histocompatibility complex class II and class III regions of the rat. Immunogenetics, 2002, 54, 268-275.	1.2	15
78	Genotyping and segregation analyses indicate the presence of only two functional MIC genes in rhesus macaques. Immunogenetics, 2007, 59, 247-251.	1.2	15
79	Differentiated adaptive evolution, episodic relaxation of selective constraints, and pseudogenization of umami and sweet taste genes TAS1Rs in catarrhine primates. Frontiers in Zoology, 2014, 11, 79.	0.9	15
80	Nomenclature for the KIR of non-human species. Immunogenetics, 2018, 70, 571-583.	1.2	15
81	Expression Patterns of Killer Cell Immunoglobulin-Like Receptors (KIR) of NK-Cell and T-Cell Subsets in Old World Monkeys. PLoS ONE, 2013, 8, e64936.	1.1	15
82	Nomenclature report for killer-cell immunoglobulin-like receptors (KIR) in macaque species: new genes/alleles, renaming recombinant entities and IPD-NHKIR updates. Immunogenetics, 2020, 72, 37-47.	1.2	14
83	Expression Profiling of Major Histocompatibility and Natural Killer Complex Genes Reveals Candidates for Controlling Risk of Graft versus Host Disease. PLoS ONE, 2011, 6, e16582.	1.1	14
84	Genomic skimming and nanopore sequencing uncover cryptic hybridization in one of worldâ€™s most threatened primates. Scientific Reports, 2021, 11, 17279.	1.6	13
85	Identification, characterization and cytogenetic mapping of a yeast Vps54 homolog in rat and mouse. Gene, 2002, 285, 213-220.	1.0	12
86	A PCRâ€based marker to simply identify Saimiri sciureus and S. boliviensis boliviensis. American Journal of Primatology, 2008, 70, 1177-1180.	0.8	12
87	The Forgotten: Identification and Functional Characterization of MHC Class II Molecules H2-Eb2 and RT1-Db2. Journal of Immunology, 2016, 196, 988-999.	0.4	11
88	Characterization and mapping of a highly conserved processed pseudogene and an intron-carrying gene of the heat shock cognate protein 70 (Hsc70) gene family in the rat. Mammalian Genome, 1995, 6, 602-606.	1.0	10
89	Comparative and evolutionary analysis of the rhesus macaque extended MHC classÂII region. Immunogenetics, 2003, 54, 699-704.	1.2	10
90	Distinct roles of Tâ€cell lymphopenia and the microbial flora for gastrointestinal and CNS autoimmunity. FASEB Journal, 2016, 30, 1724-1732.	0.2	10

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91	Major Histocompatibility Complex Class-I-Interacting Natural Killer Cell Receptors of Nonhuman Primates. Journal of Innate Immunity, 2011, 3, 236-241.	1.8	9
92	Characterisation of mouse monoclonal antibodies against rhesus macaque killer immunoglobulin-like receptors KIR3D. Immunogenetics, 2012, 64, 845-848.	1.2	9
93	Rat acute GvHD is Th1 driven and characterized by predominant donor CD4 + T-cell infiltration of skin and gut. Experimental Hematology, 2017, 50, 33-45.e3.	0.2	9
94	Cytogenetic mapping and orientation of the rhesus macaque MHC. Cytogenetic and Genome Research, 2003, 103, 144-149.	0.6	7
95	Glucocorticoid resistance of allogeneic T cells alters the gene expression profile in the inflamed small intestine of mice suffering from acute graft-versus-host disease. Journal of Steroid Biochemistry and Molecular Biology, 2019, 195, 105485.	1.2	7
96	Towards the nonâ€invasive assessment of MHC genotype in wild primates: Analysis of wild assamese macaque MHCâ€DRB from fecal samples. American Journal of Primatology, 2014, 76, 230-238.	0.8	6
97	Genetic variation in the major histocompatibility complex of the European brown hare (Lepus) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.2	6
98	Genetic regulation of parasite infection: empirical evidence of the functional significance of an IL4 gene SNP on nematode infections in wild primates. Frontiers in Zoology, 2011, 8, 9.	0.9	5
99	Rhesus Macaque Activating Killer Immunoglobulin-Like Receptors Associate With Fc Receptor Gamma (FCER1G) and Not With DAP12 Adaptor Proteins Resulting in Stabilized Expression and Enabling Signal Transduction. Frontiers in Immunology, 2021, 12, 678964.	2.2	5
100	Analysis of the 5â€²-flanking regions of the MHC-linked Hsp70-2 and Hsp70-3 genes of the rat. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1998, 1395, 57-61.	2.4	4
101	The Rat Expresses Two Complement Factor C4 Proteins, but Only One Isotype Is Expressed in the Liver. Journal of Immunology, 2005, 174, 970-975.	0.4	4
102	Nomenclature report on the major histocompatibility complex genes and alleles of the laboratory rat (Rattus norvegicus). Immunogenetics, 2020, 72, 5-8.	1.2	4
103	Efficient In Vitro Generation of IL-22-Secreting ILC3 From CD34+ Hematopoietic Progenitors in a Human Mesenchymal Stem Cell Niche. Frontiers in Immunology, 2021, 12, 797432.	2.2	3
104	Sequence analysis of the genomic interval between the Rps18 and RT1-A genes in the RT1u haplotype. Transplantation Proceedings, 1999, 31, 1513-1514.	0.3	2
105	Physical mapping of the Ring1, Ring2, Ke6, Ke4, Rxrb, Col11a2, and RT1.Hb genes in the rat major histocompatibility complex. Immunogenetics, 1996, 44, 218-221.	1.2	2
106	Immunogenetics of NK Cell Receptors and MHC Class I Ligands in Non-human Primates. , 2014, , 269-285.		1
107	Genetic Variation of the Major Histocompatibility Complex in Macaca mulatta and Macaca fascicularis. , 2015, , 37-51.		1
108	Physical mapping of the class I regions of the rat major histocompatibility complex. , 2000, , 77-90.		1

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109	Partial cloning of the class I gene-encompassing regions in the rat major histocompatibility complex. Journal of Experimental Animal Science, 2000, 41, 91-94.	0.5	0
110	Eberhard Gï¿½nther 1941?2004. Immunogenetics, 2004, 56, 467-469.	1.2	0
111	Pas de deux: Natural Killer Receptors and MHC Class I Ligands in Primates. Current Genomics, 2007, 8, 51-57.	0.7	0
112	Characterization of Innate Lymphocytes in Cord Blood Reveals a Novel ILC1 Population with Natural Killer Cell Differentiation Potential. Stem Cells Translational Medicine, 2019, 8, S11-S11.	1.6	0
113	Editorial: Comparative Genetics of NK Cell Receptor Families in Relation to MHC Class I Ligands and Their Function. Frontiers in Immunology, 2020, 11, 561.	2.2	0