

Markus Gerhard

List of Publications by Year in descending order

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109
papers

8,299
citations

57719

44
h-index

48277

88
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118
all docs

118
docs citations

118
times ranked

10377
citing authors

#	ARTICLE	IF	CITATIONS
1	Intestinal Tumorigenesis Initiated by Dedifferentiation and Acquisition of Stem-Cell-like Properties. <i>Cell</i> , 2013, 152, 25-38.	13.5	889
2	Clinical relevance of the <i>Helicobacter pylori</i> gene for blood-group antigen-binding adhesin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 12778-12783.	3.3	554
3	Functional Adaptation of BabA, the <i>H. pylori</i> ABO Blood Group Antigen Binding Adhesin. <i>Science</i> , 2004, 305, 519-522.	6.0	368
4	Specific detection of carcinoembryonic antigen-expressing tumor cells in bone marrow aspirates by polymerase chain reaction.. <i>Journal of Clinical Oncology</i> , 1994, 12, 725-729.	0.8	361
5	Rac1 in human breast cancer: overexpression, mutation analysis, and characterization of a new isoform, Rac1b. <i>Oncogene</i> , 2000, 19, 3013-3020.	2.6	348
6	Cytokine gene polymorphisms influence mucosal cytokine expression, gastric inflammation, and host specific colonisation during <i>Helicobacter pylori</i> infection. <i>Gut</i> , 2004, 53, 1082-1089.	6.1	267
7	Carcinogenic bacterial pathogen <i>Helicobacter pylori</i> triggers DNA double-strand breaks and a DNA damage response in its host cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 14944-14949.	3.3	262
8	Toll-Like Receptor Expression in Human Keratinocytes: Nuclear Factor κ B Controlled Gene Activation by <i>Staphylococcus aureus</i> is Toll-Like Receptor 2 But Not Toll-Like Receptor 4 or Platelet Activating Factor Receptor Dependent. <i>Journal of Investigative Dermatology</i> , 2003, 121, 1389-1396.	0.3	223
9	<i>Helicobacter pylori</i> β -glutamyl transpeptidase and vacuolating cytotoxin promote gastric persistence and immune tolerance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3047-3052.	3.3	200
10	<i>Helicobacter pylori</i> adhesin HopQ engages in a virulence-enhancing interaction with human CEACAMs. <i>Nature Microbiology</i> , 2017, 2, 16189.	5.9	188
11	Effect of <i>Helicobacter pylori</i> on gastrointestinal microbiota: a population-based study in Linqu, a high-risk area of gastric cancer. <i>Gut</i> , 2020, 69, 1598-1607.	6.1	179
12	Synergistic Effect of <i>Helicobacter pylori</i> Virulence Factors and Interleukin ϵ 1 Polymorphisms for the Development of Severe Histological Changes in the Gastric Mucosa. <i>Journal of Infectious Diseases</i> , 2003, 188, 272-281.	1.9	175
13	A Key Role for E-cadherin in Intestinal Homeostasis and Paneth Cell Maturation. <i>PLoS ONE</i> , 2010, 5, e14325.	1.1	171
14	Inhibition of T-Cell Proliferation by <i>Helicobacter pylori</i> β -Glutamyl Transpeptidase. <i>Gastroenterology</i> , 2007, 132, 1820-1833.	0.6	167
15	The <i>Helicobacter pylori</i> Blood Group Antigen-Binding Adhesin Facilitates Bacterial Colonization and Augments a Nonspecific Immune Response. <i>Journal of Immunology</i> , 2002, 168, 3033-3041.	0.4	166
16	A large randomised controlled intervention trial to prevent gastric cancer by eradication of <i>Helicobacter pylori</i> in Linqu County, China: baseline results and factors affecting the eradication. <i>Gut</i> , 2016, 65, 9-18.	6.1	142
17	Mitochondrial function controls intestinal epithelial stemness and proliferation. <i>Nature Communications</i> , 2016, 7, 13171.	5.8	134
18	Key importance of the <i>Helicobacter pylori</i> adherence factor blood group antigen binding adhesin during chronic gastric inflammation. <i>Cancer Research</i> , 2001, 61, 1903-9.	0.4	121

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19	Functional Analysis of the <i>cag</i> Pathogenicity Island in <i>Helicobacter pylori</i> Isolates from Patients with Gastritis, Peptic Ulcer, and Gastric Cancer. <i>Infection and Immunity</i> , 2004, 72, 1043-1056.	1.0	119
20	Human Dendritic Cells Respond to <i>Helicobacter pylori</i> , Promoting NK Cell and Th1-Effector Responses In Vitro. <i>Journal of Immunology</i> , 2004, 173, 1249-1257.	0.4	117
21	SOX2 expression correlates with lymph-node metastases and distant spread in right-sided colon cancer. <i>BMC Cancer</i> , 2011, 11, 518.	1.1	114
22	Effective treatment of allergic airway inflammation with <i>Helicobacter pylori</i> immunomodulators requires BATF3-dependent dendritic cells and IL-10. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11810-11815.	3.3	114
23	<i>Helicobacter pylori</i> -Induced IL-1 β Secretion in Innate Immune Cells Is Regulated by the NLRP3 Inflammasome and Requires the Cag Pathogenicity Island. <i>Journal of Immunology</i> , 2014, 193, 3566-3576.	0.4	113
24	Association Between Gut Microbiota and <i>Helicobacter pylori</i> -Related Gastric Lesions in a High-Risk Population of Gastric Cancer. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 202.	1.8	106
25	Diagnosis of micrometastases by the amplification of tissue-specific genes. <i>Gene</i> , 1995, 159, 43-47.	1.0	102
26	The Cdx4 mutation affects axial development and reveals an essential role of Cdx genes in the ontogenesis of the placental labyrinth in mice. <i>Development (Cambridge)</i> , 2006, 133, 419-428.	1.2	92
27	<i>Helicobacter pylori</i> Induces miR-155 in T Cells in a cAMP-Foxp3-Dependent Manner. <i>PLoS ONE</i> , 2010, 5, e9500.	1.1	89
28	<i>H. pylori</i> Virulence Factors: Influence on Immune System and Pathology. <i>Mediators of Inflammation</i> , 2014, 2014, 1-9.	1.4	89
29	The stem cell factor SOX2 regulates the tumorigenic potential in human gastric cancer cells. <i>Carcinogenesis</i> , 2014, 35, 942-950.	1.3	84
30	<i>Helicobacter pylori</i> Cytotoxin-Associated Gene A Impairs Human Dendritic Cell Maturation and Function through IL-10-Mediated Activation of STAT3. <i>Journal of Immunology</i> , 2014, 192, 316-323.	0.4	77
31	<i>Helicobacter pylori</i> adhesin HopQ disrupts trans dimerization in human <i>CEACAM6</i> s. <i>EMBO Journal</i> , 2018, 37, .	3.5	73
32	The mechanism of histamine secretion from gastric enterochromaffin-like cells. <i>American Journal of Physiology - Cell Physiology</i> , 1999, 277, C845-C855.	2.1	72
33	Genetic Variants of Toll-Like Receptor 2 and 5, <i>Helicobacter Pylori</i> Infection, and Risk of Gastric Cancer and Its Precursors in a Chinese Population. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2011, 20, 2594-2602.	1.1	72
34	A Secreted Low-Molecular-Weight Protein From <i>Helicobacter pylori</i> Induces Cell-Cycle Arrest of T Cells. <i>Gastroenterology</i> , 2005, 128, 1327-1339.	0.6	71
35	Characterisation of worldwide <i>Helicobacter pylori</i> strains reveals genetic conservation and essentiality of serine protease HtrA. <i>Molecular Microbiology</i> , 2016, 99, 925-944.	1.2	70
36	The E3 ligase RNF43 inhibits Wnt signaling downstream of mutated β -catenin by sequestering TCF4 to the nuclear membrane. <i>Science Signaling</i> , 2015, 8, ra90.	1.6	67

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37	Gut Microbiota-Derived Propionate Regulates the Expression of Reg3 Mucosal Lectins and Ameliorates Experimental Colitis in Mice. <i>Journal of Crohn's and Colitis</i> , 2020, 14, 1462-1472.	0.6	63
38	Correlation of the <i>Helicobacter pylori</i> adherence factor BabA with duodenal ulcer disease in four European countries. <i>FEMS Immunology and Medical Microbiology</i> , 2005, 44, 151-156.	2.7	60
39	<i>Helicobacter pylori</i> induces apoptosis of rat gastric parietal cells. <i>American Journal of Physiology - Renal Physiology</i> , 2002, 283, G309-G318.	1.6	56
40	Pathogenesis of <i>Helicobacter pylori</i> infection. <i>Helicobacter</i> , 2002, 7, 17-23.	1.6	54
41	The <i>Helicobacter pylori</i> Type IV Secretion System Encoded by the <i>cag</i> Pathogenicity Island: Architecture, Function, and Signaling. <i>Current Topics in Microbiology and Immunology</i> , 2017, 413, 187-220.	0.7	51
42	Evidence suggests that germline <i>RNF43</i> mutations are a rare cause of serrated polyposis. <i>Gut</i> , 2018, 67, 2230-2232.	6.1	48
43	<i>Helicobacter pylori</i> Adhesion to Carbohydrates. <i>Methods in Enzymology</i> , 2006, 417, 293-339.	0.4	46
44	Synthesis of 5- <i>Acetyloxazoles</i> and 1,2- <i>Diketones</i> from <i>Alkoxyketoenamides</i> and Their Subsequent Transformations. <i>Chemistry - A European Journal</i> , 2011, 17, 7480-7491.	1.7	46
45	IL-1 β -Induced apoptosis in rat gastric enterochromaffin-like cells is mediated by iNOS, NF- κ B, and Bax protein. <i>Gastroenterology</i> , 2000, 118, 515-524.	0.6	45
46	Dynamics of spike- and nucleocapsid specific immunity during long-term follow-up and vaccination of SARS-CoV-2 convalescents. <i>Nature Communications</i> , 2022, 13, 153.	5.8	45
47	Immune Evasion Strategies and Persistence of <i>Helicobacter pylori</i> . <i>Current Topics in Microbiology and Immunology</i> , 2017, 400, 53-71.	0.7	44
48	<i>Helicobacter pylori</i> antibody responses and evolution of precancerous gastric lesions in a Chinese population. <i>International Journal of Cancer</i> , 2014, 134, 2118-2125.	2.3	43
49	<i>Helicobacter pylori</i> Virulence Genotypes in Portuguese Children and Adults with Gastroduodenal Pathology. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2003, 22, 85-91.	1.3	42
50	<i>Helicobacter pylori</i> Flid protein is a highly sensitive and specific marker for serologic diagnosis of H. pylori infection. <i>International Journal of Medical Microbiology</i> , 2013, 303, 618-623.	1.5	40
51	A Novel Line Immunoassay Based on Recombinant Virulence Factors Enables Highly Specific and Sensitive Serologic Diagnosis of <i>Helicobacter pylori</i> Infection. <i>Vaccine Journal</i> , 2013, 20, 1703-1710.	3.2	39
52	<i>Helicobacter pylori</i> β -Glutamyltranspeptidase Induces Tolerogenic Human Dendritic Cells by Activation of Glutamate Receptors. <i>Journal of Immunology</i> , 2016, 196, 4246-4252.	0.4	39
53	The <i>Helicobacter pylori</i> HopQ outermembrane protein inhibits immune cell activities. <i>Oncolmmunology</i> , 2019, 8, e1553487.	2.1	37
54	BaiCD gene cluster abundance is negatively correlated with <i>Clostridium difficile</i> infection. <i>PLoS ONE</i> , 2018, 13, e0196977.	1.1	34

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55	Inflammation, immunity, and vaccines for <i>Helicobacter pylori</i> infection. <i>Helicobacter</i> , 2016, 21, 26-29.	1.6	33
56	Lymphotoxin $\hat{1}^2$ receptor signalling executes <i>Helicobacter pylori</i> -driven gastric inflammation in a T4SS-dependent manner. <i>Gut</i> , 2017, 66, 1369-1381.	6.1	33
57	Gastrin Induces Expression and Promoter Activity of the Vesicular Monoamine Transporter Subtype 2. <i>Endocrinology</i> , 2001, 142, 3663-3672.	1.4	32
58	Loss of endogenous RNF43 function enhances proliferation and tumour growth of intestinal and gastric cells. <i>Carcinogenesis</i> , 2019, 40, 551-559.	1.3	32
59	A Modular Synthesis of Functionalized Pyridines through Lewis Acid-Mediated and Microwave-Assisted Cycloadditions between Azapyrylium Intermediates and Alkynes. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 6070-6077.	1.2	30
60	<i>Helicobacter pylori</i> Exploits the NLRC4 Inflammasome to Dampen Host Defenses. <i>Journal of Immunology</i> , 2019, 203, 2183-2193.	0.4	30
61	Lack of RUNX3 regulation in human gastric cancer. <i>Journal of Pathology</i> , 2006, 210, 141-146.	2.1	28
62	Evidence for Conserved Function of $\hat{1}^3$ Glutamyltranspeptidase in <i>Helicobacter</i> Genus. <i>PLoS ONE</i> , 2012, 7, e30543.	1.1	28
63	<i>Helicobacter pylori</i> $\hat{1}^3$ -glutamyltransferase impairs T-lymphocyte function by compromising metabolic adaptation through inhibition of cMyc and IRF4 expression. <i>Cellular Microbiology</i> , 2015, 17, 51-61.	1.1	28
64	ITF-2 Is Disrupted via Allelic Loss of Chromosome 18q21, and ITF-2B Expression Is Lost at the Adenoma-Carcinoma Transition. <i>Gastroenterology</i> , 2009, 137, 639-648.e9.	0.6	27
65	Diagnosis of <i>Helicobacter pylori</i> : Changes towards the Future. <i>Diseases (Basel, Switzerland)</i> , 2015, 3, 122-135.	1.0	25
66	<i>Helicobacter pylori</i> $\hat{1}^3$ -glutamyl transferase contributes to colonization and differential recruitment of T cells during persistence. <i>Scientific Reports</i> , 2017, 7, 13636.	1.6	25
67	The NudA Protein in the Gastric Pathogen <i>Helicobacter pylori</i> Is an Ubiquitous and Constitutively Expressed Dinucleoside Polyphosphate Hydrolase. <i>Journal of Biological Chemistry</i> , 2003, 278, 12574-12578.	1.6	24
68	C/EBP homologous protein inhibits tissue repair in response to gut injury and is inversely regulated with chronic inflammation. <i>Mucosal Immunology</i> , 2014, 7, 1452-1466.	2.7	24
69	<i>Helicobacter pylori</i> vaccination: Is there a path to protection?. <i>World Journal of Gastroenterology</i> , 2014, 20, 11939.	1.4	23
70	<i>Helicobacter bilis</i> Gamma-Glutamyltransferase Enhances Inflammatory Stress Response via Oxidative Stress in Colon Epithelial Cells. <i>PLoS ONE</i> , 2013, 8, e73160.	1.1	22
71	<i>Helicobacter pylori</i> outer membrane proteins and gastric inflammation. <i>Gut</i> , 2006, 55, 1360-1; author reply 1361.	6.1	22
72	Caveolin-1 Protects B6129 Mice against <i>Helicobacter pylori</i> Gastritis. <i>PLoS Pathogens</i> , 2013, 9, e1003251.	2.1	21

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73	Helicobacter pylori HP0231 Influences Bacterial Virulence and Is Essential for Gastric Colonization. PLoS ONE, 2016, 11, e0154643.	1.1	21
74	Loss of RNF43 Function Contributes to Gastric Carcinogenesis by Impairing DNA Damage Response. Cellular and Molecular Gastroenterology and Hepatology, 2021, 11, 1071-1094.	2.3	21
75	Involvement of Toll-Like Receptors on Helicobacter pylori-Induced Immunity. PLoS ONE, 2014, 9, e104804.	1.1	20
76	High Frequency of vacA s1m2 Genotypes Among Helicobacter pylori Isolates From Patients With Gastrointestinal Disorders in Kermanshah, Iran. Jundishapur Journal of Microbiology, 2015, 8, e25425.	0.2	19
77	Recruitment of highly cytotoxic CD8+ T cell receptors in mild SARS-CoV-2 infection. Cell Reports, 2022, 38, 110214.	2.9	19
78	CMV seropositivity is a potential novel risk factor for severe COVID-19 in non-geriatric patients. PLoS ONE, 2022, 17, e0268530.	1.1	19
79	JAK-STAT1 Signaling Pathway Is an Early Response to Helicobacter pylori Infection and Contributes to Immune Escape and Gastric Carcinogenesis. International Journal of Molecular Sciences, 2022, 23, 4147.	1.8	18
80	Proteomic profiling identifies signatures associated with progression of precancerous gastric lesions and risk of early gastric cancer. EBioMedicine, 2021, 74, 103714.	2.7	17
81	Phantomia, Parosmia, and Dysgeusia Are Prolonged and Late-Onset Symptoms of COVID-19. Journal of Clinical Medicine, 2021, 10, 5266.	1.0	16
82	Betacellulin stimulates growth of the mouse intestinal epithelium and increases adenoma multiplicity in Apc ^{+/+} Min ^{-/-} mice. FEBS Letters, 2008, 582, 2911-2915.	1.3	15
83	A comprehensive analysis of the COL29A1 gene does not support a role in eczema. Journal of Allergy and Clinical Immunology, 2011, 127, 1187-1194.e7.	1.5	15
84	Expression of Tumor Necrosis Factor-Related Apoptosis-Inducing Ligand and Its Proapoptotic Receptors Is Downregulated during Gastric Infection with Virulent cagA+/vacAs1+ Helicobacter pylori Strains. Journal of Infectious Diseases, 2005, 191, 571-578.	1.9	14
85	Mutated Rnf43 Aggravates Helicobacter Pylori-Induced Gastric Pathology. Cancers, 2019, 11, 372.	1.7	14
86	Cysteine Residues in Helicobacter pylori Adhesin HopQ are Required for CEACAM-HopQ Interaction and Subsequent CagA Translocation. Microorganisms, 2020, 8, 465.	1.6	12
87	VacA-Associated Inhibition of T-cell Function: Reviewed and Reconsidered. Helicobacter, 2006, 11, 144-146.	1.6	11
88	T cell-specific inactivation of mouse CD2 by CRISPR/Cas9. Scientific Reports, 2016, 6, 21377.	1.6	11
89	Increased LIGHT expression and activation of non-canonical NF- κ B are observed in gastric lesions of MyD88-deficient mice upon Helicobacter felis infection. Scientific Reports, 2019, 9, 7030.	1.6	11
90	Cut-off optimization for 13C-urea breath test in a community-based trial by mathematic, histology and serology approach. Scientific Reports, 2017, 7, 2072.	1.6	10

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91	Concomitant Infection of <i>S.Âmansoni</i> and <i>H.Âpylori</i> Promotes Promiscuity of Antigen-Experienced Cells and Primes the Liver for a Lower Fibrotic Response. <i>Cell Reports</i> , 2019, 28, 231-244.e5.	2.9	10
92	The <i>Sox17</i> ^{CreERT2} knockâ€in mouse line displays spatiotemporal activation of Cre recombinase in distinct Sox17 lineage progenitors. <i>Genesis</i> , 2013, 51, 793-802.	0.8	9
93	Validation of a Novel Immunoline Assay for Patient Stratification according to Virulence of the Infecting <i>Helicobacter pylori</i> Strain and Eradication Status. <i>Journal of Immunology Research</i> , 2017, 2017, 1-10.	0.9	9
94	A new mouse model for studying EGFR-dependent gastric polyps. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2012, 1822, 1293-1299.	1.8	8
95	Performance of a Multiplex Serological <i>Helicobacter pylori</i> Assay on a Novel Microfluidic Assay Platform. <i>Proteomes</i> , 2017, 5, 24.	1.7	7
96	A mass spectrometry guided approach for the identification of novel vaccine candidates in gram-negative pathogens. <i>Scientific Reports</i> , 2019, 9, 17401.	1.6	7
97	Thymic stromal lymphopoietin induction by polyinosinic:polycytidylic acid in human keratinocytes is preferentially mediated through protein kinase R and retinoid-inducible gene I and not Toll-like receptor 3. <i>Journal of Allergy and Clinical Immunology</i> , 2009, 124, 862-864.	1.5	6
98	Comparison of enzymatic properties and small molecule inhibition of Î³â€glutamyltranspeptidases from pathogenic and commensal bacteria. <i>Biological Chemistry</i> , 2017, 398, 341-357.	1.2	6
99	Development of a Bead-Based Multiplex Assay for the Analysis of the Serological Response against the Six Pathogens HAV, HBV, HCV, CMV, <i>T. gondii</i> , and <i>H. pylori</i> . <i>High-Throughput</i> , 2017, 6, 14.	4.4	6
100	Fluorophore-conjugated <i>Helicobacter pylori</i> recombinant membrane protein (HopQ) labels primary colon cancer and metastases in orthotopic mouse models by binding CEA-related cell adhesion molecules. <i>Translational Oncology</i> , 2020, 13, 100857.	1.7	6
101	Microbiota-associated Risk Factors for <i>Clostridioides difficile</i> Acquisition in Hospitalized Patients: A Prospective, Multicentric Study. <i>Clinical Infectious Diseases</i> , 2021, 73, e2625-e2634.	2.9	6
102	New Rapid <i>Helicobacter Pylori</i> Blood Test Based on Dual Detection of FltD and CagA Antibodies for On-Site Testing. <i>Clinical Gastroenterology and Hepatology</i> , 2023, 21, 229-231.e1.	2.4	6
103	Engagement of CEACAM1 by <i>Helicobacter pylori</i> HopQ Is Important for the Activation of Non-Canonical NF-Î²B in Gastric Epithelial Cells. <i>Microorganisms</i> , 2021, 9, 1748.	1.6	5
104	Prolonged norovirus infections correlate to quasispecies evolution resulting in structural changes of surface-exposed epitopes. <i>iScience</i> , 2021, 24, 102802.	1.9	3
105	Microbiota alteration at different stages in gastric lesion progression: a population-based study in Linqiu, China. <i>American Journal of Cancer Research</i> , 2021, 11, 561-575.	1.4	3
106	Isolation and characterization of Rac1 pseudogenes (Î¹1Rac1â€Î¹4Rac1) in the human genome. <i>Gene</i> , 2004, 341, 189-197.	1.0	2
107	Quantitation of norovirus-specific IgG before and after infection in immunocompromised patients. <i>Brazilian Journal of Microbiology</i> , 2020, 51, 183-187.	0.8	2
108	Validation and improvement of a multiplex PCR method to detect murine <i>Helicobacter</i> species in feces samples of mice. <i>Helicobacter</i> , 2022, , e12888.	1.6	1

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109	The Lost Friend: H. pylori. Birkhauser Advances in Infectious Diseases, 2017, , 69-97.	0.3	0