

# Silja Wessler

## List of Publications by Year in descending order

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91  
papers

5,121  
citations

94381

37  
h-index

88593

70  
g-index

94  
all docs

94  
docs citations

94  
times ranked

4872  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inhibition of Collagenase Q1 of <i>Bacillus cereus</i> as a Novel Antivirulence Strategy for the Treatment of Skin Wound Infections. <i>Advanced Therapeutics</i> , 2022, 5, 2100222.	1.6	4
2	Proteolytic Landscapes in Gastric Pathology and Cancerogenesis. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2419.	1.8	5
3	E-Cadherin Orthologues as Substrates for the Serine Protease High Temperature Requirement A (HtrA). <i>Biomolecules</i> , 2022, 12, 356.	1.8	1
4	<i>Helicobacter pylori</i> CagA EPIYA Motif Variations Affect Metabolic Activity in B Cells. <i>Toxins</i> , 2021, 13, 592.	1.5	1
5	OUP accepted manuscript. <i>FEMS Microbiology Letters</i> , 2021, 368, .	0.7	3
6	Identification of Desmoglein-2 as a novel target of <i>Helicobacter pylori</i> HtrA in epithelial cells. <i>Cell Communication and Signaling</i> , 2021, 19, 108.	2.7	9
7	<i>H. pylori</i> modulates DC functions via T4SS/TNF $\alpha$ /p38-dependent SOCS3 expression. <i>Cell Communication and Signaling</i> , 2020, 18, 160.	2.7	14
8	Dissecting the <i>Helicobacter pylori</i> -regulated transcriptome of B cells. <i>Pathogens and Disease</i> , 2020, 78, .	0.8	6
9	<i>Helicobacter pylori</i> -Derived Outer Membrane Vesicles (OMVs): Role in Bacterial Pathogenesis?. <i>Microorganisms</i> , 2020, 8, 1328.	1.6	36
10	Morphing of Amphipathic Helices to Explore the Activity and Selectivity of Membranolytic Antimicrobial Peptides. <i>Biochemistry</i> , 2020, 59, 3772-3781.	1.2	4
11	TLR2, TLR4 and TLR10 Shape the Cytokine and Chemokine Release of <i>H. pylori</i> -Infected Human DCs. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3897.	1.8	25
12	A novel FRET peptide assay reveals efficient <i>Helicobacter pylori</i> HtrA inhibition through zinc and copper binding. <i>Scientific Reports</i> , 2020, 10, 10563.	1.6	19
13	Peptidase PepP is a novel virulence factor of <i>Campylobacter jejuni</i> contributing to murine campylobacteriosis. <i>Gut Microbes</i> , 2020, 12, 1770017.	4.3	9
14	Tyrosine Kinases in <i>Helicobacter pylori</i> Infections and Gastric Cancer. <i>Toxins</i> , 2019, 11, 591.	1.5	13
15	The proteolytic activity of <i>Listeria monocytogenes</i> HtrA. <i>BMC Microbiology</i> , 2019, 19, 255.	1.3	8
16	<i>Helicobacter pylori</i> -controlled c-Abl localization promotes cell migration and limits apoptosis. <i>Cell Communication and Signaling</i> , 2019, 17, 10.	2.7	17
17	Activity and Functional Importance of <i>Helicobacter pylori</i> Virulence Factors. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1149, 35-56.	0.8	23
18	Extracellular HtrA serine proteases: An emerging new strategy in bacterial pathogenesis. <i>Cellular Microbiology</i> , 2018, 20, e12845.	1.1	97

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19	Nanoparticle binding attenuates the pathobiology of gastric cancer-associated <i>Helicobacter pylori</i> . <i>Nanoscale</i> , 2018, 10, 1453-1463.	2.8	45
20	Nanosized food additives impact beneficial and pathogenic bacteria in the human gut: a simulated gastrointestinal study. <i>Npj Science of Food</i> , 2018, 2, 22.	2.5	37
21	Nanomaterial–microbe cross-talk: physicochemical principles and (patho)biological consequences. <i>Chemical Society Reviews</i> , 2018, 47, 5312-5337.	18.7	44
22	Special Issue – H. pylori Virulence Factors in the Induction of Gastric Cancer – Toxins, 2018, 10, 176.	1.5	6
23	A novel basolateral type IV secretion model for the CagA oncoprotein of <i>Helicobacter pylori</i> . <i>Microbial Cell</i> , 2018, 5, 60-62.	1.4	12
24	Hybrid Network Model for – Deep Learning – of Chemical Data: Application to Antimicrobial Peptides. <i>Molecular Informatics</i> , 2017, 36, 1600011.	1.4	39
25	Bacterial serine protease HtrA as a promising new target for antimicrobial therapy?. <i>Cell Communication and Signaling</i> , 2017, 15, 4.	2.7	39
26	Exploiting the Gastric Epithelial Barrier: <i>Helicobacter pylori</i> 's Attack on Tight and Adherens Junctions. <i>Current Topics in Microbiology and Immunology</i> , 2017, 400, 195-226.	0.7	32
27	From inflammation to gastric cancer – the importance of Hedgehog/Gli signaling in <i>Helicobacter pylori</i> -induced chronic inflammatory and neoplastic diseases. <i>Cell Communication and Signaling</i> , 2017, 15, 15.	2.7	67
28	<i>Helicobacter pylori</i> Employs a Unique Basolateral Type IV Secretion Mechanism for CagA Delivery. <i>Cell Host and Microbe</i> , 2017, 22, 552-560.e5.	5.1	125
29	Peptide–Membrane Interaction between Targeting and Lysis. <i>ACS Chemical Biology</i> , 2017, 12, 2254-2259.	1.6	12
30	Rational Design of Membrane–Pore–Forming Peptides. <i>Small</i> , 2017, 13, 1701316.	5.2	24
31	The sound of tumor cell-microenvironment communication – composed by the Cancer Cluster Salzburg research network. <i>Cell Communication and Signaling</i> , 2017, 15, 20.	2.7	8
32	Oxidative Phosphorylation System in Gastric Carcinomas and Gastritis. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-14.	1.9	20
33	Proteolysis in <i>Helicobacter pylori</i> -Induced Gastric Cancer. <i>Toxins</i> , 2017, 9, 134.	1.5	27
34	Multi-Approach Analysis for the Identification of Proteases within Birch Pollen. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1433.	1.8	18
35	Cloning, Purification and Characterization of the Collagenase ColA Expressed by <i>Bacillus cereus</i> ATCC 14579. <i>PLoS ONE</i> , 2016, 11, e0162433.	1.1	17
36	CagA Phosphorylation in <i>Helicobacter pylori</i> -Infected B Cells Is Mediated by the Nonreceptor Tyrosine Kinases of the Src and Abl Families. <i>Infection and Immunity</i> , 2016, 84, 2671-2680.	1.0	30

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37	Emerging Novel Virulence Factors of <i>Helicobacter pylori</i> . , 2016, , 165-188.		2
38	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
39	Sparse Neural Network Models of Antimicrobial Peptide-Activity Relationships. <i>Molecular Informatics</i> , 2016, 35, 606-614.	1.4	15
40	Identification of E-cadherin signature motifs functioning as cleavage sites for <i>Helicobacter pylori</i> HtrA. <i>Scientific Reports</i> , 2016, 6, 23264.	1.6	77
41	Calcium binding protects E-cadherin from cleavage by <i>Helicobacter pylori</i> HtrA. <i>Gut Pathogens</i> , 2016, 8, 29.	1.6	29
42	HtrA-mediated E-cadherin cleavage is limited to DegP and DegQ homologs expressed by gram-negative pathogens. <i>Cell Communication and Signaling</i> , 2016, 14, 30.	2.7	35
43	Fragment-Based De Novo Design Reveals a Small Molecule Inhibitor of <i>Helicobacter Pylori</i> HtrA. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10244-10248.	7.2	37
44	Proteolytic Activities Expressed by Gastrointestinal Pathogens <i>Bacillus cereus</i> , <i>Listeria monocytogenes</i> and <i>Enterococcus faecium</i> in Different Growth Phases. <i>British Microbiology Research Journal</i> , 2015, 7, 62-70.	0.2	7
45	Piloting the Membranolytic Activities of Peptides with a Self-organizing Map. <i>ChemBioChem</i> , 2014, 15, 2225-2231.	1.3	8
46	Inhibiting <i>Helicobacter pylori</i> HtrA protease by addressing a computationally predicted allosteric ligand binding site. <i>Chemical Science</i> , 2014, 5, 3583.	3.7	29
47	Peptide lineup against Gram-negative bacterial infection – first-in-class peptide inhibitor of <i>H. pylori</i> HtrA. <i>Journal of Cheminformatics</i> , 2014, 6, .	2.8	0
48	The stability and activity of recombinant <i>Helicobacter pylori</i> HtrA under stress conditions. <i>Journal of Basic Microbiology</i> , 2013, 53, 402-409.	1.8	28
49	Transmigration route of <i>Campylobacter jejuni</i> across polarized intestinal epithelial cells: paracellular, transcellular or both?. <i>Cell Communication and Signaling</i> , 2013, 11, 72.	2.7	100
50	Differential gene expression in ER $\alpha$ -positive and ER $\alpha$ -negative breast cancer cells upon leptin stimulation. <i>Endocrine</i> , 2013, 44, 496-503.	1.1	7
51	The functional interplay of <i>Helicobacter pylori</i> factors with gastric epithelial cells induces a multi-step process in pathogenesis. <i>Cell Communication and Signaling</i> , 2013, 11, 77.	2.7	150
52	Extracellular secretion of protease HtrA from <i>Campylobacter jejuni</i> is highly efficient and independent of its protease activity and flagellum. <i>European Journal of Microbiology and Immunology</i> , 2013, 3, 163-173.	1.5	32
53	Distinct Roles of Secreted HtrA Proteases from Gram-negative Pathogens in Cleaving the Junctional Protein and Tumor Suppressor E-cadherin. <i>Journal of Biological Chemistry</i> , 2012, 287, 10115-10120.	1.6	150
54	Peroxiredoxin 6 promotes upregulation of the prion protein (PrP) in neuronal cells of prion-infected mice. <i>Cell Communication and Signaling</i> , 2012, 10, 38.	2.7	7

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55	Rapid paracellular transmigration of <i>Campylobacter jejuni</i> across polarized epithelial cells without affecting TER: role of proteolytic-active HtrA cleaving E-cadherin but not fibronectin. <i>Gut Pathogens</i> , 2012, 4, 3.	1.6	130
56	<i>Helicobacter pylori</i> CagL dependent induction of gastrin expression via a novel $\beta$ -integrin-linked kinase signalling complex. <i>Gut</i> , 2012, 61, 986-996.	6.1	104
57	<i>Carnobacterium divergens</i> - a dominating bacterium of pork meat juice. <i>FEMS Microbiology Letters</i> , 2012, 332, 122-130.	0.7	19
58	From Virtual Screening to Bioactive Compounds by Visualizing and Clustering of Chemical Space. <i>Molecular Informatics</i> , 2012, 31, 21-26.	1.4	12
59	c-Src and c-Abl kinases control hierarchic phosphorylation and function of the CagA effector protein in Western and East Asian <i>Helicobacter pylori</i> strains. <i>Journal of Clinical Investigation</i> , 2012, 122, 1553-1566.	3.9	200
60	Serine Phosphorylation of Cortactin Controls Focal Adhesion Kinase Activity and Cell Scattering Induced by <i>Helicobacter pylori</i> . <i>Cell Host and Microbe</i> , 2011, 9, 520-531.	5.1	74
61	Inhibitors of <i>Helicobacter pylori</i> Protease HtrA Found by Virtual Ligand™ Screening Combat Bacterial Invasion of Epithelia. <i>PLoS ONE</i> , 2011, 6, e17986.	1.1	52
62	Role of the <i>cag</i> pathogenicity island encoded type IV secretion system in <i>Helicobacter pylori</i> pathogenesis. <i>FEBS Journal</i> , 2011, 278, 1190-1202.	2.2	211
63	Many ways of communication: from <i>Helicobacter pylori</i> adherence to death, disruption, migration and escape. <i>Cell Communication and Signaling</i> , 2011, 9, 24.	2.7	1
64	Regulation of the actin cytoskeleton in <i>Helicobacter pylori</i> -induced migration and invasive growth of gastric epithelial cells. <i>Cell Communication and Signaling</i> , 2011, 9, 27.	2.7	22
65	Context-Based Identification of Protein-Protein Interfaces and Hot-Spot Residues. <i>Chemistry and Biology</i> , 2011, 18, 344-353.	6.2	63
66	Abl Family of Tyrosine Kinases and Microbial Pathogenesis. <i>International Review of Cell and Molecular Biology</i> , 2011, 286, 271-300.	1.6	22
67	Complex Cellular Responses of <i>Helicobacter pylori</i> -Colonized Gastric Adenocarcinoma Cells. <i>Infection and Immunity</i> , 2011, 79, 2362-2371.	1.0	34
68	Expression of estrogen receptor alpha increases leptin-induced STAT3 activity in breast cancer cells. <i>International Journal of Cancer</i> , 2010, 127, 55-66.	2.3	54
69	Quantitative phosphoproteomic analysis of prion-infected neuronal cells. <i>Cell Communication and Signaling</i> , 2010, 8, 28.	2.7	7
70	<i>Helicobacter pylori</i> HtrA is a new secreted virulence factor that cleaves E-cadherin to disrupt intercellular adhesion. <i>EMBO Reports</i> , 2010, 11, 798-804.	2.0	264
71	<i>Helicobacter pylori</i> activates protein kinase C delta to control Raf in MAP kinase signalling: Role in AGS epithelial cell scattering and elongation. <i>Cytoskeleton</i> , 2009, 66, 874-892.	4.4	20
72	Autoregulation of human relaxin-2 gene expression critically involves relaxin and glucocorticoid receptor binding to glucocorticoid response half-sites in the relaxin-2 promoter. <i>Regulatory Peptides</i> , 2009, 155, 163-173.	1.9	14

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73	Targeting focal adhesions: Helicobacter pylori-host communication in cell migration. Cell Communication and Signaling, 2008, 6, 2.	2.7	39
74	Differential phosphoproteome profiling reveals a functional role for VASP in Helicobacter pylori-induced cytoskeleton turnover in gastric epithelial cells. Cellular Microbiology, 2008, 10, 2285-2296.	1.1	12
75	Emerging roles of Abl family tyrosine kinases in microbial pathogenesis. Trends in Biochemical Sciences, 2008, 33, 80-90.	3.7	64
76	Molecular mechanisms of epithelial-barrier disruption by Helicobacter pylori. Trends in Microbiology, 2008, 16, 397-405.	3.5	103
77	p120 and Kaiso Regulate Helicobacter pylori-induced Expression of Matrix Metalloproteinase-7. Molecular Biology of the Cell, 2008, 19, 4110-4121.	0.9	68
78	Prediction of Extracellular Proteases of the Human Pathogen Helicobacter pylori Reveals Proteolytic Activity of the Hp1018/19 Protein HtrA. PLoS ONE, 2008, 3, e3510.	1.1	75
79	Phosphorylation of Helicobacter pylori CagA by c-Abl leads to cell motility. Oncogene, 2007, 26, 3462-3472.	2.6	163
80	Helicobacter exploits integrin for type IV secretion and kinase activation. Nature, 2007, 449, 862-866.	13.7	571
81	CagA-independent disruption of adherence junction complexes involves E-cadherin shedding and implies multiple steps in Helicobacter pylori pathogenicity. Experimental Cell Research, 2007, 313, 3459-3471.	1.2	64
82	Identification of estrogen receptor ligands leading to activation of non-genomic signaling pathways while exhibiting only weak transcriptional activity. Journal of Steroid Biochemistry and Molecular Biology, 2006, 98, 25-35.	1.2	37
83	The anti-inflammatory compound curcumin inhibits Neisseria gonorrhoeae-induced NF- $\kappa$ B signaling, release of pro-inflammatory cytokines/chemokines and attenuates adhesion in late infection. Biological Chemistry, 2005, 386, 481-490.	1.2	47
84	A Constituent of Green Tea, Epigallocatechin-3-gallate, Activates Endothelial Nitric Oxide Synthase by a Phosphatidylinositol-3-OH-kinase-, cAMP-dependent Protein Kinase-, and Akt-dependent Pathway and Leads to Endothelial-dependent Vasorelaxation. Journal of Biological Chemistry, 2004, 279, 6190-6195.	1.6	296
85	Helicobacter pylori stimulates host vascular endothelial growth factor ( vegf ) gene expression via MEK/ERK-dependent activation of Sp1 and Sp3. FASEB Journal, 2004, 18, 218-220.	0.2	63
86	Analysis of the type IV secretion system-dependent cell motility of Helicobacter pylori-infected epithelial cells. Biochemical and Biophysical Research Communications, 2004, 322, 860-866.	1.0	34
87	Helicobacter pylori stimulates host cyclooxygenase-2 gene transcription: critical importance of MEK/ERK-dependent activation of USF1/2 and CREB transcription factors. Cellular Microbiology, 2003, 5, 821-834.	1.1	87
88	Raf/Rap1 signaling, but not Raf-1/Ras, induces the histidine decarboxylase promoter in Helicobacter pylori infection. FASEB Journal, 2002, 16, 417-419.	0.2	41
89	Helicobacter pylori Activates the Histidine Decarboxylase Promoter through a Mitogen-activated Protein Kinase Pathway Independent of Pathogenicity Island-encoded Virulence Factors. Journal of Biological Chemistry, 2000, 275, 3629-3636.	1.6	66
90	Activation of Activator Protein 1 and Stress Response Kinases in Epithelial Cells Colonized by Helicobacter pylori Encoding the cag Pathogenicity Island. Journal of Biological Chemistry, 1999, 274, 31655-31662.	1.6	158

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91	Neisseria gonorrhoeae Epithelial Cell Interaction Leads to the Activation of the Transcription Factors Nuclear Factor $\kappa$ B and Activator Protein 1 and the Induction of Inflammatory Cytokines. Journal of Experimental Medicine, 1997, 186, 247-258.	4.2	143