Sara K LindÃ©n

List of Publications by Year
in descending order

76 papers	5,782 citations	126858 33 h-index	76872 74 g-index
77 all docs	77 docs citations	77 times ranked	7848 citing authors

#	Article	IF	Citations
1	Mucin dynamics and enteric pathogens. Nature Reviews Microbiology, 2011, 9, 265-278.	13.6	1,132
2	Mucolytic Bacteria With Increased Prevalence in IBD Mucosa Augment In Vitro Utilization of Mucin by Other Bacteria. American Journal of Gastroenterology, 2010, 105, 2420-2428.	0.2	1,086
3	Functional Adaptation of BabA, the H. pylori ABO Blood Group Antigen Binding Adhesin. Science, 2004, 305, 519-522.	6.0	368
4	MUC1 cell surface mucin is a critical element of the mucosal barrier to infection. Journal of Clinical Investigation, 2007, 117, 2313-2324.	3.9	351
5	MUC1 Limits Helicobacter pylori Infection both by Steric Hindrance and by Acting as a Releasable Decoy. PLoS Pathogens, 2009, 5, e1000617.	2.1	227
6	Mucin Dynamics in Intestinal Bacterial Infection. PLoS ONE, 2008, 3, e3952.	1.1	184
7	Muc1 Mucin Limits Both Helicobacter pylori Colonization of the Murine Gastric Mucosa and Associated Gastritis. Gastroenterology, 2007, 133, 1210-1218.	0.6	170
8	Role of ABO Secretor Status in Mucosal Innate Immunity and H. pylori Infection. PLoS Pathogens, 2008, 4, e2.	2.1	137
9	Strain- and blood groupâ€“dependent binding of Helicobacter pylori to human gastric MUC5AC glycoforms. Gastroenterology, 2002, 123, 1923-1930.	0.6	131
10	Gastrointestinal Cell Lines Form Polarized Epithelia with an Adherent Mucus Layer when Cultured in Semi-Wet Interfaces with Mechanical Stimulation. PLoS ONE, 2013, 8, e68761.	1.1	120
11	Helicobacter pylori Adapts to Chronic Infection and Gastric Disease via pH-Responsive BabA-Mediated Adherence. Cell Host and Microbe, 2017, 21, 376-389.	5.1	104
12	Structural Diversity of Human Gastric Mucin Glycans. Molecular and Cellular Proteomics, 2017, 16, 743-758.	2.5	100
13	Effects of pH on Helicobacter pylori binding to human gastric mucins: identification of binding to non-MUC5AC mucins. Biochemical Journal, 2004, 384, 263-270.	1.7	89
14	Four Modes of Adhesion are Used During <i>Helicobacter pylori</i> Binding to Human Mucins in the Oral and Gastric Niches. Helicobacter, 2008, 13, 81-93.	1.6	84
15	Human Gastric Mucins Differently Regulate Helicobacter pylori Proliferation, Gene Expression and Interactions with Host Cells. PLoS ONE, 2012, 7, e36378.	1.1	75
16	Helicobacter pylori Infection Impairs the Mucin Production Rate and Turnover in the Murine Gastric Mucosa. Infection and Immunity, 2013, 81, 829-837.	1.0	68
17	Structural Diversity of Human Gastric Mucin Glycans. Molecular and Cellular Proteomics, 2017, 16, 743-758.	2.5	66
18	Lactobacilli Reduce Helicobacter pylori Attachment to Host Gastric Epithelial Cells by Inhibiting Adhesion Gene Expression. Infection and Immunity, 2016, 84, 1526-1535.	1.0	59

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19	Listeria monocytogenes internalins bind to the human intestinal mucin MUC2. Archives of Microbiology, 2008, 190, 101-104.	1.0	55
20	Atlantic Salmon Carries a Range of Novel <i>O</i>-Glycan Structures Differentially Localized on Skin and Intestinal Mucins. Journal of Proteome Research, 2015, 14, 3239-3251.	1.8	52
21	Helicobacter pylori Adhesion to Carbohydrates. Methods in Enzymology, 2006, 417, 293-339.	0.4	46
22	Mucus-Pathogen Interactions in the Gastrointestinal Tract of Farmed Animals. Microorganisms, 2018, 6, 55.	1.6	46
23	Rhesus monkey gastric mucins: oligomeric structure, glycoforms and Helicobacter pylori binding1. Biochemical Journal, 2004, 379, 765-775.	1.7	44
24	Dynamic Changes in Mucus Thickness and Ion Secretion during Citrobacter rodentium Infection and Clearance. PLoS ONE, 2013, 8, e84430.	1.1	44
25	Aeromonas salmonicida Binds Differentially to Mucins Isolated from Skin and Intestinal Regions of Atlantic Salmon in an <i>N</i> -Acetylneuraminic Acid-Dependent Manner. Infection and Immunity, 2014, 82, 5235-5245.	1.0	42
26	Endocrine impact of Helicobacter pylori: Focus on ghrelin and ghrelin o-acyltransferase. World Journal of Gastroenterology, 2011, 17, 1249.	1.4	42
27	Role of Mucin Lewis Status in Resistance to <i>Helicobacter pylori</i> Infection in Pediatric Patients. Helicobacter, 2010, 15, 251-258.	1.6	41
28	The Levels of Brachyspira hyodysenteriae Binding to Porcine Colonic Mucins Differ between Individuals, and Binding Is Increased to Mucins from Infected Pigs with <i>De Novo</i> MUC5AC Synthesis. Infection and Immunity, 2015, 83, 1610-1619.	1.0	41
29	Improved In vitro Model Systems for Gastrointestinal Infection by Choice of Cell Line, pH, Microaerobic Conditions, and Optimization of Culture Conditions. Helicobacter, 2007, 12, 341-353.	1.6	37
30	Presence of terminal N-acetylgalactosamineÎ²1-4N-acetylglucosamine residues on O-linked oligosaccharides from gastric MUC5AC: Involvement in Helicobacter pylori colonization?. Glycobiology, 2012, 22, 1077-1085.	1.3	37
31	Divergence between the Highly Virulent Zoonotic Pathogen Helicobacter heilmannii and Its Closest Relative, the Low-Virulence â€œHelicobacter ailurogastricusâ€• sp. nov. Infection and Immunity, 2016, 84, 293-306.	1.0	37
32	<i>Brachyspira hyodysenteriae</i> Infection Regulates Mucin Glycosylation Synthesis Inducing an Increased Expression of Core-2 <i>O</i>-Glycans in Porcine Colon. Journal of Proteome Research, 2017, 16, 1728-1742.	1.8	34
33	BabA dependent binding of Helicobacter pylori to human gastric mucins cause aggregation that inhibits proliferation and is regulated via ArsS. Scientific Reports, 2017, 7, 40656.	1.6	34
34	In-Depth Study of Transmembrane Mucins in Association with Intestinal Barrier Dysfunction During the Course of T Cell Transfer and DSS-Induced Colitis. Journal of Crohn's and Colitis, 2020, 14, 974-994.	0.6	31
35	<i>Helicobacter suis</i> binding to carbohydrates on human and porcine gastric mucins and glycolipids occurs via two modes. Virulence, 2018, 9, 898-918.	1.8	29
36	The O-Linked Glycome and Blood Group Antigens ABO on Mucin-Type Glycoproteins in Mucinous and Serous Epithelial Ovarian Tumors. PLoS ONE, 2015, 10, e0130197.	1.1	27

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37	Evidence for a primate origin of zoonotic <i>Helicobacter suis</i> colonizing domesticated pigs. ISME Journal, 2018, 12, 77-86.	4.4	26
38	The Farmed Atlantic Salmon (Salmo salar) Skinâ€"Mucus Proteome and Its Nutrient Potential for the Resident Bacterial Community. Genes, 2019, 10, 515.	1.0	26
39	Carbachol-induced colonic mucus formation requires transport via NKCC1, K+ channels and CFTR. Pflugers Archiv European Journal of Physiology, 2015, 467, 1403-1415.	1.3	23
40	Genomics of host-pathogen interactions: challenges and opportunities across ecological and spatiotemporal scales. PeerJ, 2019, 7, e8013.	0.9	23
41	Aeromonas salmonicida Growth in Response to Atlantic Salmon Mucins Differs between Epithelial Sites, Is Governed by Sialylated and <i>N</i> -Acetylhexosamine-Containing <i>O</i> -Glycans, and Is Affected by Ca ²⁺. Infection and Immunity, 2017, 85, .	1.0	22
42	Helicobacter suis infection alters glycosylation and decreases the pathogen growth inhibiting effect and binding avidity of gastric mucins. Mucosal Immunology, 2019, 12, 784-794.	2.7	22
43	Gastric <i>De Novo</i> Muc13 Expression and Spasmolytic Polypeptide-Expressing Metaplasia during Helicobacter heilmannii Infection. Infection and Immunity, 2014, 82, 3227-3239.	1.0	20
44	The aspirin metabolite salicylate inhibits lysine acetyltransferases and MUC1 induced epithelial to mesenchymal transition. Scientific Reports, 2017, 7, 5626.	1.6	19
45	Fish pathogen binding to mucins from Atlantic salmon and Arctic char differs in avidity and specificity and is modulated by fluid velocity. PLoS ONE, 2019, 14, e0215583.	1.1	18
46	Effects of Size and Geographical Origin on Atlantic salmon, Salmo salar, Mucin O-Glycan Repertoire. Molecular and Cellular Proteomics, 2019, 18, 1183-1196.	2.5	18
47	IL-4 Protects the Mitochondria Against TNFÎ± and IFNÎ³ Induced Insult During Clearance of Infection with Citrobacter rodentium and Escherichia coli. Scientific Reports, 2015, 5, 15434.	1.6	17
48	Role of Sialic Acid in Brachyspira hyodysenteriae Adhesion to Pig Colonic Mucins. Infection and Immunity, 2019, 87, .	1.0	17
49	Exploring the Arctic Charr Intestinal Glycome: Evidence of Increased <i>N</i>-Glycolylneuraminic Acid Levels and Changed Hostâ€"Pathogen Interactions in Response to Inflammation. Journal of Proteome Research, 2019, 18, 1760-1773.	1.8	17
50	Neutrophil Elastase and Interleukin 17 Expressed in the Pig Colon during Brachyspira hyodysenteriae Infection Synergistically with the Pathogen Induce Increased Mucus Transport Speed and Production via Mitogen-Activated Protein Kinase 3. Infection and Immunity, 2017, 85, .	1.0	16
51	Increased CD11b and Decreased CD62L in Blood and Airway Neutrophils from Long-Term Smokers with and without COPD. Journal of Innate Immunity, 2020, 12, 480-489.	1.8	16
52	Strain-Dependent Proliferation in Response to Human Gastric Mucin and Adhesion Properties of Helicobacter pylori are not Affected by Co-isolated Lactobacillus sp.. Helicobacter, 2011, 16, 9-19.	1.6	15
53	Epithelial MUC1 promotes cell migration, reduces apoptosis and affects levels of mucosal modulators during acetylsalicylic acid (aspirin)-induced gastropathy. Biochemical Journal, 2015, 465, 423-431.	1.7	15
54	The peptidomimetic Lau-(Lys-Î²NSpe)6-NH2 antagonizes formyl peptide receptor 2 expressed in mouse neutrophils. Biochemical Pharmacology, 2016, 119, 56-65.	2.0	15

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55	BabA-mediated adherence of pediatric ulcerogenic <i>H. pylori</i> strains to gastric mucins at neutral and acidic pH. Virulence, 2018, 9, 1699-1717.	1.8	14
56	Influence of the viscosity of healthy and diseased human mucins on the motility of Helicobacter pylori. Scientific Reports, 2018, 8, 9710.	1.6	13
57	Colonic levels of vasoactive intestinal peptide decrease during infection and exogenous VIP protects epithelial mitochondria against the negative effects of IFNÎ³ and TNFÎ± induced during Citrobacter rodentium infection. PLoS ONE, 2018, 13, e0204567.	1.1	12
58	Smoking-associated increase in mucins 1 and 4 in human airways. Respiratory Research, 2020, 21, 239.	1.4	11
59	Stress Impairs Skin Barrier Function and Induces Î±2-3 Linked N-Acetylneuraminic Acid and Core 1 O-Glycans on Skin Mucins in Atlantic Salmon, Salmo salar. International Journal of Molecular Sciences, 2021, 22, 1488.	1.8	11
60	Rainbow trout gastrointestinal mucus, mucin production, mucin glycosylation and response to lipopolysaccharide. Fish and Shellfish Immunology, 2022, 122, 181-190.	1.6	11
61	Mucin modified SPR interfaces for studying the effect of flow on pathogen binding to Atlantic salmon mucins. Biosensors and Bioelectronics, 2019, 146, 111736.	5.3	10
62	Gill Mucus and Gill Mucin O-glycosylation in Healthy and Amebic Gill Disease-Affected Atlantic Salmon. Microorganisms, 2020, 8, 1871.	1.6	10
63	The Repertoire of Glycosphingolipids Recognized by Vibrio cholerae. PLoS ONE, 2013, 8, e53999.	1.1	9
64	Increased MUC1 plus a larger quantity and complex size for MUC5AC in the peripheral airway lumen of long-term tobacco smokers. Clinical Science, 2020, 134, 1107-1125.	1.8	9
65	A new mouse model for studying EGFR-dependent gastric polyps. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2012, 1822, 1293-1299.	1.8	8
66	Recombinant mucin-type proteins carrying LacdiNAc on different <i>O</i>-glycan core chains fail to support <i>H. pylori</i> binding. Molecular Omics, 2020, 16, 243-257.	1.4	8
67	New NCI-N87-derived human gastric epithelial line after human telomerase catalytic subunit over-expression. World Journal of Gastroenterology, 2015, 21, 6526.	1.4	7
68	Techniques for Assessment of Interactions of Mucins with Microbes and Parasites In Vitro and In Vivo. Methods in Molecular Biology, 2012, 842, 297-312.	0.4	6
69	Differentiation of Gastrointestinal Cell Lines by Culture in Semi-wet Interface. Methods in Molecular Biology, 2018, 1817, 41-46.	0.4	5
70	Carbohydrate-Dependent and Antimicrobial Peptide Defence Mechanisms Against Helicobacter pylori Infections. Current Topics in Microbiology and Immunology, 2019, 421, 179-207.	0.7	5
71	Mucin Binding to<i>Moraxella catarrhalis</i>during Airway Inflammation Is Dependent on Sialic Acid. American Journal of Respiratory Cell and Molecular Biology, 2021, 65, 593-602.	1.4	5
72	Optimization of Alcian blue pHÂ1.0 histo-staining protocols to match mass spectrometric quantification of sulfomucins and circumvent false positive results due to sialomucins. Glycobiology, 2022, 32, 6-10.	1.3	4

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73	Atlantic Salmon Mucins Inhibit LuxS-Dependent A. Salmonicida AI-2 Quorum Sensing in an N-Acetylneuraminic Acid-Dependent Manner. International Journal of Molecular Sciences, 2022, 23, 4326.	1.8	4
74	Streptococcus oralis Employs Multiple Mechanisms of Salivary Mucin Binding That Differ Between Strains. Frontiers in Cellular and Infection Microbiology, 0, 12, .	1.8	3
75	The MUC13 Cell Surface Mucin Protects Against Intestinal Inflammation by Inhibiting Epithelial Cell Apoptosis. Gastroenterology, 2011, 140, S-635.	0.6	1
76	Brachyspira Species Avidity to Colonic Mucins from Pigs with and without Brachyspira hyodysenteriae Infection is Species-Specific and Varies between Strains. Infection and Immunity, 2021, 89, e0048621.	1.0	1