Renato Morona

List of Publications by Year in Descending Order

130 papers	5,822 citations	43 h-index	73 g-index
135 ext. papers	6,296 ext. citations	5 avg, IF	5.45 L-index

#	Paper	IF	Citations
130	Detection of a disulphide bond and conformational changes in Shigella flexneri Wzy, and the role of cysteine residues in polymerase activity.. *Biochimica Et Biophysica Acta - Biomembranes*, **2022**, 1864, 183871	3.8	0
129	Interdependence of Shigella flexneri O Antigen and Enterobacterial Common Antigen Biosynthetic Pathways.. *Journal of Bacteriology*, **2022**, e0054621	3.5	0
128	Identification of a Region in Shigella flexneri WzyB Disrupting the Interaction with Wzz. *Journal of Bacteriology*, **2021**, 203, e0041321	3.5	2
127	The virulence domain of Shigella IcsA contains a subregion with specific host cell adhesion function. *PLoS ONE*, **2020**, 15, e0227425	3.7	4
126	Targets Human Colonic Goblet Cells by O Antigen Binding to Sialyl-Tn and Tn Antigens via Glycan-Glycan Interactions. *ACS Infectious Diseases*, **2020**, 6, 2604-2615	5.5	2
125	Specific blood group antibodies inhibit Shigella flexneri interaction with human cells in the absence of spinoculation. *Biochemical and Biophysical Research Communications*, **2020**, 521, 131-136	3.4	3
124	Polysaccharide co-polymerase WzzB/WzzE chimeras reveal transmembrane 2 region of WzzB is important for interaction with WzyB. *Journal of Bacteriology*, **2020**,	3.5	5
123	Role of Streptococcus pneumoniae OM001 operon in capsular polysaccharide production, virulence and survival in human saliva. *PLoS ONE*, **2018**, 13, e0190402	3.7	1
122	In vitro characterization and identification of potential substrates of a low molecular weight protein tyrosine phosphatase in Streptococcus pneumoniae. *Microbiology (United Kingdom)*, **2018**, 164, 697-703	2.9	3
121	Unprecedented Abundance of Protein Tyrosine Phosphorylation Modulates Shigella flexneri Virulence. *Journal of Molecular Biology*, **2016**, 428, 4197-4208	6.5	16
120	Conserved transmembrane glycine residues in the Shigella flexneri polysaccharide co-polymerase protein WzzB influence protein-protein interactions. *Microbiology (United Kingdom)*, **2016**, 162, 921-929	2.9	5
119	Protection against Shiga-Toxigenic Escherichia coli by Non-Genetically Modified Organism Receptor Mimic Bacterial Ghosts. *Infection and Immunity*, **2015**, 83, 3526-33	3.7	6
118	Capsule Structure, Synthesis, and Regulation **2015**, 169-179		1
117	The passenger-associated transport repeat promotes virulence factor secretion efficiency and delineates a distinct autotransporter subtype. *Molecular Microbiology*, **2015**, 97, 315-29	4.1	8
116	Topology of Streptococcus pneumoniae CpsC, a polysaccharide copolymerase and bacterial protein tyrosine kinase adaptor protein. *Journal of Bacteriology*, **2015**, 197, 120-7	3.5	5
115	Lipopolysaccharide surface structure does not influence IcsA polarity. *FEMS Microbiology Letters*, **2015**, 362, fnv042	2.9	2
114	Mutational analysis of the Shigella flexneri O-antigen polymerase Wzy: identification of Wzz-dependent Wzy mutants. *Journal of Bacteriology*, **2015**, 197, 108-19	3.5	9

113	Shigella flexneri cell-to-cell spread, and growth and inflammation in mice, is limited by the outer membrane protease IcsP. *FEMS Microbiology Letters*, **2015**, 362, fnv088	2.9	1
112	Glycan:glycan interactions: High affinity biomolecular interactions that can mediate binding of pathogenic bacteria to host cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E7266-75	11.5	69
111	Structural and Biochemical Analysis of a Single Amino-Acid Mutant of WzzBSF That Alters Lipopolysaccharide O-Antigen Chain Length in Shigella flexneri. *PLoS ONE*, **2015**, 10, e0138266	3.7	6
110	Mutational analysis of the major periplasmic loops of Shigella flexneri Wzy: identification of the residues affecting O antigen modal chain length control, and Wzz-dependent polymerization activity. *Microbiology (United Kingdom)*, **2015**, 161, 774-85	2.9	15
109	Detection of Wzy/Wzz interaction in Shigella flexneri. *Microbiology (United Kingdom)*, **2015**, 161, 1797-1805	2.9	20
108	A small conserved motif supports polarity augmentation of Shigella flexneri IcsA. *Microbiology (United Kingdom)*, **2015**, 161, 2087-97	2.9	5
107	Progress in understanding the assembly process of bacterial O-antigen. *FEMS Microbiology Reviews*, **2014**, 38, 1048-65	15.1	69
106	The role of bacterial protein tyrosine phosphatases in the regulation of the biosynthesis of secreted polysaccharides. *Antioxidants and Redox Signaling*, **2014**, 20, 2274-89	8.4	28
105	Tyrosine phosphorylation enhances activity of pneumococcal autolysin LytA. *Microbiology (United Kingdom)*, **2014**, 160, 2745-2754	2.9	15
104	IcsA is a Shigella flexneri adhesin regulated by the type III secretion system and required for pathogenesis. *Cell Host and Microbe*, **2014**, 15, 435-45	23.4	60
103	Dynamin-related protein Drp1 and mitochondria are important for Shigella flexneri infection. *International Journal of Medical Microbiology*, **2014**, 304, 530-41	3.7	25
102	Relationship between O-antigen chain length and resistance to colicin E2 in Shigella flexneri. *Microbiology (United Kingdom)*, **2014**, 160, 589-601	2.9	23
101	Myosin IIA is essential for Shigella flexneri cell-to-cell spread. *Pathogens and Disease*, **2014**, 72, 174-87	4.2	13
100	Residues located inside the Escherichia coli FepE protein oligomer are essential for lipopolysaccharide O-antigen modal chain length regulation. *Microbiology (United Kingdom)*, **2013**, 159, 701-714	2.9	13
99	Dual inhibition of DNA polymerase PolC and protein tyrosine phosphatase CpsB uncovers a novel antibiotic target. *Biochemical and Biophysical Research Communications*, **2013**, 430, 167-72	3.4	12
98	Encapsulating bacteria. *Structure*, **2013**, 21, 692-3	5.2	1
97	Complete Genome Sequence of SfII, a Serotype-Converting Bacteriophage of the Highly Prevalent Shigella flexneri Serotype 2a. *Genome Announcements*, **2013**, 1,		7
96	LPS unmasking of Shigella flexneri reveals preferential localisation of tagged outer membrane protease IcsP to septa and new poles. *PLoS ONE*, **2013**, 8, e70508	3.7	13

95	Impact of dynasore an inhibitor of dynamin II on Shigella flexneri infection. *PLoS ONE*, **2013**, 8, e84975	3.7	8
94	Identification of Shigella flexneri IcsA residues affecting interaction with N-WASP, and evidence for IcsA-IcsA co-operative interaction. *PLoS ONE*, **2013**, 8, e55152	3.7	8
93	5-benzylidenerhodanine and 5-benzylidene-2-4-thiazolidinedione based antibacterials. *Bioorganic and Medicinal Chemistry Letters*, **2012**, 22, 2720-2	2.9	30
92	IcsA autotransporter passenger promotes increased fusion protein expression on the cell surface. *Microbial Cell Factories*, **2012**, 11, 20	6.4	14
91	Selective inhibition of biotin protein ligase from Staphylococcus aureus. *Journal of Biological Chemistry*, **2012**, 287, 17823-17832	5.4	40
90	Bioengineered microbes in disease therapy. *Trends in Molecular Medicine*, **2012**, 18, 417-25	11.5	36
89	Self-association of the Shigella flexneri IcsA autotransporter protein. *Microbiology (United Kingdom)* , **2012**, 158, 1874-1883	2.9	6
88	Chemical inhibition of bacterial protein tyrosine phosphatase suppresses capsule production. *PLoS ONE*, **2012**, 7, e36312	3.7	25
87	Absence of O antigen suppresses Shigella flexneri IcsA autochaperone region mutations. *Microbiology (United Kingdom)*, **2012**, 158, 2835-2850	2.9	10
86	Wzy-dependent bacterial capsules as potential drug targets. *Current Drug Targets*, **2012**, 13, 1421-31	3	12
85	Escherichia coli 83972 expressing a P fimbriae oligosaccharide receptor mimic impairs adhesion of uropathogenic E. coli. *Journal of Infectious Diseases*, **2012**, 206, 1242-9	7	20
84	Identification of Streptococcus pneumoniae Cps2C residues that affect capsular polysaccharide polymerization, cell wall ligation, and Cps2D phosphorylation. *Journal of Bacteriology*, **2011**, 193, 2341-6	3.5	14
83	Designer Probiotics and Enteric Cytoprotection **2011**, 429-443		
82	Bioengineered bugs expressing oligosaccharide receptor mimics: toxin-binding probiotics for treatment and prevention of enteric infections. *Bioengineered Bugs*, **2010**, 1, 172-7		28
81	Mutagenesis and chemical cross-linking suggest that Wzz dimer stability and oligomerization affect lipopolysaccharide O-antigen modal chain length control. *Journal of Bacteriology*, **2010**, 192, 3385-93	3.5	28
80	Sequence-structure relationships in polysaccharide co-polymerase (PCP) proteins. *Trends in Biochemical Sciences*, **2009**, 34, 78-84	10.3	68
79	Differential immunogenicity of Vibrio cholerae O139 variants expressing different combinations of naturally occurring and atypical forms of the serogroup polysaccharide. *Vaccine*, **2009**, 27, 1055-61	4.1	4
78	Bacterial polysaccharide co-polymerases share a common framework for control of polymer length. *Nature Structural and Molecular Biology*, **2008**, 15, 130-8	17.6	89

77	Coiled-coil regions play a role in the function of the Shigella flexneri O-antigen chain length regulator WzzpHS2. *Microbiology (United Kingdom)*, **2008**, 154, 1104-1116	2.9	29
76	Mutagenesis of the Shigella flexneri autotransporter IcsA reveals novel functional regions involved in IcsA biogenesis and recruitment of host neural Wiscott-Aldrich syndrome protein. *Journal of Bacteriology*, **2008**, 190, 4666-76	3.5	38
75	Role of oxyR in the oral anaerobe Porphyromonas gingivalis. *Journal of Bacteriology*, **2006**, 188, 2454-62	3.5	78
74	Attachment of capsular polysaccharide to the cell wall of Streptococcus pneumoniae type 2 is required for invasive disease. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 8505-10	11.5	109
73	Altering the length of the lipopolysaccharide O antigen has an impact on the interaction of Salmonella enterica serovar Typhimurium with macrophages and complement. *Journal of Bacteriology*, **2006**, 188, 2735-9	3.5	127
72	A recombinant probiotic for treatment and prevention of cholera. *Gastroenterology*, **2006**, 130, 1688-95	13.3	76
71	Designer probiotics for prevention of enteric infections. *Nature Reviews Microbiology*, **2006**, 4, 193-200	22.2	76
70	Topological analysis of GtrA and GtrB proteins encoded by the serotype-converting cassette of Shigella flexneri. *Biochemical and Biophysical Research Communications*, **2005**, 328, 1252-60	3.4	32
69	Recombinant probiotics for treatment and prevention of enterotoxigenic Escherichia coli diarrhea. *Gastroenterology*, **2005**, 128, 1219-28	13.3	80
68	Inducible serum resistance in Salmonella typhimurium is dependent on wzz(fepE)-regulated very long O antigen chains. *Microbes and Infection*, **2005**, 7, 1296-304	9.3	50
67	Refinement of a therapeutic Shiga toxin-binding probiotic for human trials. *Journal of Infectious Diseases*, **2004**, 189, 1547-55	7	34
66	The effect that mutations in the conserved capsular polysaccharide biosynthesis genes cpsA, cpsB, and cpsD have on virulence of Streptococcus pneumoniae. *Journal of Infectious Diseases*, **2004**, 189, 1905-13	7	106
65	The chromosome of Shigella flexneri bacteriophage Sf6: complete nucleotide sequence, genetic mosaicism, and DNA packaging. *Journal of Molecular Biology*, **2004**, 339, 379-94	6.5	110
64	Lipopolysaccharide O antigen chains mask IcsA (VirG) in Shigella flexneri. *FEMS Microbiology Letters*, **2003**, 221, 173-80	2.9	28
63	Multicopy icsA is able to suppress the virulence defect caused by the wzz(SF) mutation in Shigella flexneri. *FEMS Microbiology Letters*, **2003**, 221, 213-9	2.9	10
62	Regulation of Salmonella typhimurium lipopolysaccharide O antigen chain length is required for virulence; identification of FepE as a second Wzz. *Molecular Microbiology*, **2003**, 47, 1395-406	4.1	176
61	The actin-based motility defect of a Shigella flexneri rmlD rough LPS mutant is not due to loss of IcsA polarity. *Microbial Pathogenesis*, **2003**, 35, 11-8	3.8	24
60	Mutational analysis of the carboxy-terminal (YGX)4 repeat domain of CpsD, an autophosphorylating tyrosine kinase required for capsule biosynthesis in Streptococcus pneumoniae. *Journal of Bacteriology*, **2003**, 185, 3009-19	3.5	80

59	The tailspike protein of Shigella phage Sf6. A structural homolog of Salmonella phage P22 tailspike protein without sequence similarity in the beta-helix domain. *Journal of Biological Chemistry*, **2003**, 278, 1542-8	5.4	41
58	Genetic modulation of Shigella flexneri 2a lipopolysaccharide O antigen modal chain length reveals that it has been optimized for virulence. *Microbiology (United Kingdom)*, **2003**, 149, 925-939	2.9	90
57	Streptococcus pneumoniae capsule biosynthesis protein CpsB is a novel manganese-dependent phosphotyrosine-protein phosphatase. *Journal of Bacteriology*, **2002**, 184, 577-83	3.5	107
56	Neutralization of Shiga toxins Stx1, Stx2c, and Stx2e by recombinant bacteria expressing mimics of globotriose and globotetraose. *Infection and Immunity*, **2001**, 69, 1967-70	3.7	60
55	Oral administration of formaldehyde-killed recombinant bacteria expressing a mimic of the Shiga toxin receptor protects mice from fatal challenge with Shiga-toxigenic Escherichia coli. *Infection and Immunity*, **2001**, 69, 1389-93	3.7	42
54	Tyrosine phosphorylation of CpsD negatively regulates capsular polysaccharide biosynthesis in streptococcus pneumoniae. *Molecular Microbiology*, **2000**, 35, 1431-42	4.1	174
53	A new biological agent for treatment of Shiga toxigenic Escherichia coli infections and dysentery in humans. *Nature Medicine*, **2000**, 6, 265-70	50.5	177
52	Evaluation of Wzz/MPA1/MPA2 proteins based on the presence of coiled-coil regions. *Microbiology (United Kingdom)*, **2000**, 146 (Pt 1), 1-4	2.9	86
51	The Shigella flexneri bacteriophage Sf6 tailspike protein (TSP)/endorhamnosidase is related to the bacteriophage P22 TSP and has a motif common to exo- and endoglycanases, and C-5 epimerases. *Microbiology (United Kingdom)*, **1999**, 145 (Pt 7), 1649-1659	2.9	34
50	Molecular and genetic characterization of the capsule biosynthesis locus of Streptococcus pneumoniae type 23F. *Microbiology (United Kingdom)*, **1999**, 145 (Pt 4), 781-789	2.9	28
49	The Salmonella typhi melittin resistance gene pqaB affects intracellular growth in PMA-differentiated U937 cells, polymyxin B resistance and lipopolysaccharide. *Microbiology (United Kingdom)*, **1999**, 145 (Pt 2), 367-378	2.9	64
48	Analysis of Shigella flexneri wzz (Rol) function by mutagenesis and cross-linking: wzz is able to oligomerize. *Molecular Microbiology*, **1999**, 34, 181-94	4.1	87
47	Analysis of the 5Sportion of the type 19A capsule locus identifies two classes of cpsC, cpsD, and cpsE genes in Streptococcus pneumoniae. *Journal of Bacteriology*, **1999**, 181, 3599-605	3.5	39
46	Comparative genetics of capsular polysaccharide biosynthesis in Streptococcus pneumoniae types belonging to serogroup 19. *Journal of Bacteriology*, **1999**, 181, 5355-64	3.5	52
45	Recombinational exchanges at the capsular polysaccharide biosynthetic locus lead to frequent serotype changes among natural isolates of Streptococcus pneumoniae. *Molecular Microbiology*, **1998**, 27, 73-83	4.1	267
44	Overexpression and topology of the Shigella flexneri O-antigen polymerase (Rfc/Wzy). *Molecular Microbiology*, **1998**, 28, 1211-22	4.1	161
43	Molecular and genetic characterization of the capsule biosynthesis locus of Streptococcus pneumoniae type 19B. *Journal of Bacteriology*, **1997**, 179, 4953-8	3.5	38
42	PhoP/Q regulated genes in Salmonella typhi identification of melittin sensitive mutants. *Microbial Pathogenesis*, **1997**, 22, 165-79	3.8	31

41	Characterization of the capsular polysaccharide biosynthesis locus of Streptococcus pneumoniae type 19F. *Microbial Drug Resistance*, **1997**, 3, 89-99	2.9	4
40	Regulation of O-antigen chain length is required for Shigella flexneri virulence. *Molecular Microbiology*, **1997**, 23, 765-75	4.1	97
39	Characterization of the locus encoding the Streptococcus pneumoniae type 19F capsular polysaccharide biosynthetic pathway. *Molecular Microbiology*, **1997**, 23, 751-63	4.1	103
38	Mechanism of bacteriophage SfII-mediated serotype conversion in Shigella flexneri. *Molecular Microbiology*, **1997**, 26, 939-50	4.1	92
37	Release of chloramphenicol acetyl transferase from recombinant Escherichia coli by sonication and the French press. *Biotechnology Letters*, **1995**, 9, 477-480		4
36	Lipopolysaccharide with an altered O-antigen produced in Escherichia coli K-12 harbouring mutated, cloned Shigella flexneri rfb genes. *Molecular Microbiology*, **1995**, 18, 209-23	4.1	29
35	Molecular, genetic, and topological characterization of O-antigen chain length regulation in Shigella flexneri. *Journal of Bacteriology*, **1995**, 177, 1059-68	3.5	155
34	Genetic analysis of the rfbX gene of Shigella flexneri. *Gene*, **1995**, 155, 9-17	3.8	34
33	In Vibrio cholerae serogroup O1, rfaD is closely linked to the rfb operon. *Gene*, **1995**, 155, 67-72	3.8	17
32	Putative O-antigen transport genes within the rfb region of Vibrio cholerae O1 are homologous to those for capsule transport. *Gene*, **1995**, 158, 1-7	3.8	33
31	A putative pathway for biosynthesis of the O-antigen component, 3-deoxy-L-glycero-tetronic acid, based on the sequence of the Vibrio cholerae O1 rfb region. *Gene*, **1995**, 166, 19-31	3.8	13
30	A putative pathway for perosamine biosynthesis is the first function encoded within the rfb region of Vibrio cholerae O1. *Gene*, **1995**, 166, 33-42	3.8	48
29	Genetic rearrangements in the rfb regions of Vibrio cholerae O1 and O139. *Proceedings of the National Academy of Sciences of the United States of America*, **1995**, 92, 10374-8	11.5	89
28	Characterization of the rfc region of Shigella flexneri. *Journal of Bacteriology*, **1994**, 176, 733-47	3.5	132
27	Characterization of the dTDP-rhamnose biosynthetic genes encoded in the rfb locus of Shigella flexneri. *Molecular Microbiology*, **1994**, 11, 281-92	4.1	79
26	Construction of K88- and K99-expressing clones of Salmonella typhimurium G30: immunogenicity following oral administration to pigs. *Vaccine*, **1994**, 12, 513-7	4.1	18
25	Isolation, characterization, and nucleotide sequence of IS1202, an insertion sequence of Streptococcus pneumoniae. *Journal of Bacteriology*, **1994**, 176, 4437-43	3.5	35
24	Nucleotide sequence analysis of genes essential for capsular polysaccharide biosynthesis in Streptococcus pneumoniae type 19F. *Infection and Immunity*, **1994**, 62, 5384-96	3.7	107

23	Immunization of mice with Salmonella typhimurium C5 aroA expressing a genetically toxoided derivative of the pneumococcal toxin pneumolysin. *Microbial Pathogenesis*, **1993**, 14, 95-102	3.8	7
22	Bacteriophage Lambda as a Delivery Vector for Tn10-Derived Transposons in Xenorhabdus bovienii. *Applied and Environmental Microbiology*, **1993**, 59, 3050-5	4.8	8
21	Serotype conversion in Vibrio cholerae O1. *Proceedings of the National Academy of Sciences of the United States of America*, **1992**, 89, 2566-70	11.5	168
20	Genetic analysis of the rfb region of Shigella flexneri encoding the Y serotype O-antigen specificity. *Molecular Microbiology*, **1991**, 5, 1491-9	4.1	40
19	Effect of lipopolysaccharide core synthesis mutations on the production ofVibrio choleraeO-antigen inEscherixhia coliK-12. *FEMS Microbiology Letters*, **1991**, 82, 279-285	2.9	32
18	Construction of plasmid vectors with a non-antibiotic selection system based on the Escherichia coli thyA+ gene: application to cholera vaccine development. *Gene*, **1991**, 107, 139-44	3.8	33
17	Effect of lipopolysaccharide core synthesis mutations on the production of Vibrio cholerae O-antigen in Escherichia coli K-12. *FEMS Microbiology Letters*, **1991**, 66, 279-85	2.9	13
16	Regions of the cloned Vibrio cholerae rfb genes needed to determine the Ogawa form of the O-antigen. *Molecular Genetics and Genomics*, **1990**, 224, 405-12		6
15	Surface co-expression of Vibrio cholerae and Salmonella typhi O-antigens on Ty21a clone EX210. *Microbial Pathogenesis*, **1990**, 8, 177-88	3.8	22
14	Immunogenicity of a candidate live oral typhoid/cholera hybrid vaccine in humans. *Journal of Infectious Diseases*, **1989**, 159, 145-6	7	46
13	Towards a live oral vaccine against enterotoxigenic Escherichia coli of swine. *Vaccine*, **1988**, 6, 387-9	4.1	20
12	A galE via (Vi antigen-negative) mutant of Salmonella typhi Ty2 retains virulence in humans. *Infection and Immunity*, **1988**, 56, 1326-33	3.7	157
11	Construction of defined galE mutants of Salmonella for use as vaccines. *Journal of Infectious Diseases*, **1987**, 156, 167-74	7	70
10	A physical map of the chromosomal region determining O-antigen biosynthesis in Vibrio cholerae O1. *Gene*, **1987**, 55, 197-204	3.8	31
9	Detection of an OmpA-like protein inVibrio cholerae. *FEMS Microbiology Letters*, **1986**, 37, 99-104	2.9	14
8	New locus (ttr) in Escherichia coli K-12 affecting sensitivity to bacteriophage T2 and growth on oleate as the sole carbon source. *Journal of Bacteriology*, **1986**, 168, 534-40	3.5	20
7	The nature of ompA mutants of Escherichia coli K12 exhibiting temperature-sensitive bacteriophage resistance. *Molecular Genetics and Genomics*, **1985**, 201, 357-9		
6	Demonstration of a bacteriophage receptor site on the Escherichia coli K12 outer-membrane protein OmpC by the use of a protease. *FEBS Journal*, **1985**, 150, 161-9		43

5	Detection of several diisopropylfluorophosphate-binding proteins in the outer membrane ofEscherichia coliK-12. *FEMS Microbiology Letters*, **1984**, 23, 179-182	2.9	4
4	Escherichia coli K-12 outer membrane protein (OmpA) as a bacteriophage receptor: analysis of mutant genes expressing altered proteins. *Journal of Bacteriology*, **1984**, 159, 570-8	3.5	158
3	A new locus, stc, which affects the phenotype of tolC mutants of Escherichia coli K-12. *Molecular Genetics and Genomics*, **1982**, 187, 335-341		8
2	Molecular cloning of the tolC locus of Escherichia coli K-12 with the use of transposon Tn10. *Molecular Genetics and Genomics*, **1981**, 184, 430-3		23
1	Molecular Basis for O-Antigen Biosynthesis in Vibrio cholerae O1: Ogawa-Inaba Switching77-94		58