Mariela Segura

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

111 papers	4,920 citations	35 h-index	67 g-index
119 ext. papers	5,708 ext. citations	4.6 avg, IF	5.79 L-index

#	Paper	IF	Citations
111	Streptococcus suis, an important pig pathogen and emerging zoonotic agent-an update on the worldwide distribution based on serotyping and sequence typing. *Emerging Microbes and Infections*, **2014**, 3, e45	18.9	355
110	Streptococcus suis: a new emerging or an old neglected zoonotic pathogen?. *Future Microbiology*, **2010**, 5, 371-91	2.9	310
109	Virulence factors involved in the pathogenesis of the infection caused by the swine pathogen and zoonotic agent Streptococcus suis. *Future Microbiology*, **2012**, 7, 259-79	2.9	277
108	The pathogenesis of the meningitis caused by Streptococcus suis: the unresolved questions. *Veterinary Microbiology*, **2000**, 76, 259-72	3.3	275
107	Streptococcus suis infections in humans: the Chinese experience and the situation in North America. *Animal Health Research Reviews*, **2007**, 8, 29-45	2.1	243
106	Streptococcus suis serotype 2, an important swine and human pathogen, induces strong systemic and cerebral inflammatory responses in a mouse model of infection. *Journal of Immunology*, **2007**, 179, 1842-54	5.3	150
105	Impairment of dendritic cell function by excretory-secretory products: a potential mechanism for nematode-induced immunosuppression. *European Journal of Immunology*, **2007**, 37, 1887-904	6.1	149
104	Streptococcus suisSequence Type 7 Outbreak, Sichuan, China. *Emerging Infectious Diseases*, **2006**, 12, 1203-1208	10.2	134
103	Phagocytosis and killing of Streptococcus suis by porcine neutrophils. *Microbial Pathogenesis*, **2006**, 41, 21-32	3.8	115
102	Impairment of protective immunity to blood-stage malaria by concurrent nematode infection. *Infection and Immunity*, **2005**, 73, 3531-9	3.7	114
101	Critical Streptococcus suis Virulence Factors: Are They All Really Critical?. *Trends in Microbiology*, **2017**, 25, 585-599	12.4	107
100	Pro-inflammatory cytokine and chemokine release by human brain microvascular endothelial cells stimulated by Streptococcus suis serotype 2. *FEMS Immunology and Medical Microbiology*, **2003**, 35, 49-58		103
99	Interaction of mouse dendritic cells and malaria-infected erythrocytes: uptake, maturation, and antigen presentation. *Journal of Immunology*, **2006**, 176, 441-50	5.3	101
98	Invasion of porcine brain microvascular endothelial cells by Streptococcus suis serotype 2. *Infection and Immunity*, **2004**, 72, 1441-9	3.7	94
97	TLR2-dependent recognition of Streptococcus suis is modulated by the presence of capsular polysaccharide which modifies macrophage responsiveness. *International Immunology*, **2007**, 19, 375-89	4.9	93
96	Interactions between Streptococcus suis serotype 2 and different epithelial cell lines. *Microbiology (United Kingdom)*, **2000**, 146 (Pt 8), 1913-1921	2.9	90
95	Critical role for Streptococcus suis cell wall modifications and suilysin in resistance to complement-dependent killing by dendritic cells. *Journal of Infectious Diseases*, **2011**, 204, 919-29	7	85

94	Encapsulated Streptococcus suis inhibits activation of signaling pathways involved in phagocytosis. *Infection and Immunity*, **2004**, 72, 5322-30	3.7	81
93	Streptococcus suis interactions with the murine macrophage cell line J774: adhesion and cytotoxicity. *Infection and Immunity*, **2002**, 70, 4312-22	3.7	72
92	Heat-killed Streptococcus suis capsular type 2 strains stimulate tumor necrosis factor alpha and interleukin-6 production by murine macrophages. *Infection and Immunity*, **1999**, 67, 4646-54	3.7	71
91	Proteomic analysis of excretory-secretory products of Heligmosomoides polygyrus assessed with next-generation sequencing transcriptomic information. *PLoS Neglected Tropical Diseases*, **2011**, 5, e1370	4.8	70
90	Streptococcus suis sequence type 7 outbreak, Sichuan, China. *Emerging Infectious Diseases*, **2006**, 12, 1203-8	10.2	70
89	Initial steps of the pathogenesis of the infection caused by Streptococcus suis: fighting against nonspecific defenses. *FEBS Letters*, **2016**, 590, 3772-3799	3.8	69
88	Reduced protective efficacy of a blood-stage malaria vaccine by concurrent nematode infection. *Infection and Immunity*, **2006**, 74, 2138-44	3.7	69
87	Streptococcus suis vaccines: candidate antigens and progress. *Expert Review of Vaccines*, **2015**, 14, 1587-608	3.8	66
86	Glycoengineered Outer Membrane Vesicles: A Novel Platform for Bacterial Vaccines. *Scientific Reports*, **2016**, 6, 24931	4.9	61
85	Comparison of the susceptibilities of C57BL/6 and A/J mouse strains to Streptococcus suis serotype 2 infection. *Infection and Immunity*, **2008**, 76, 3901-10	3.7	59
84	Streptococcus suis: an emerging human threat. *Journal of Infectious Diseases*, **2009**, 199, 4-6	7	58
83	Proinflammatory cytokine and chemokine modulation by Streptococcus suis in a whole-blood culture system. *FEMS Immunology and Medical Microbiology*, **2006**, 47, 92-106		58
82	Streptococcus suis capsular polysaccharide inhibits phagocytosis through destabilization of lipid microdomains and prevents lactosylceramide-dependent recognition. *Infection and Immunity*, **2012**, 80, 506-17	3.7	46
81	Exacerbated type II interferon response drives hypervirulence and toxic shock by an emergent epidemic strain of Streptococcus suis. *Infection and Immunity*, **2013**, 81, 1928-39	3.7	44
80	In vitro characterization of the microglial inflammatory response to Streptococcus suis, an important emerging zoonotic agent of meningitis. *Infection and Immunity*, **2010**, 78, 5074-85	3.7	41
79	Capsular sialic acid of Streptococcus suis serotype 2 binds to swine influenza virus and enhances bacterial interactions with virus-infected tracheal epithelial cells. *Infection and Immunity*, **2013**, 81, 4498-508	3.7	40
78	Structure determination of Streptococcus suis serotype 14 capsular polysaccharide. *Biochemistry and Cell Biology*, **2013**, 91, 49-58	3.6	36
77	Virulence Studies of Different Sequence Types and Geographical Origins of Streptococcus suis Serotype 2 in a Mouse Model of Infection. *Pathogens*, **2016**, 5,	4.5	36

76	A platform for glycoengineering a polyvalent pneumococcal bioconjugate vaccine using E. coli as a host. *Nature Communications*, **2019**, 10, 891	17.4	35
75	New putative virulence factors of Streptococcus suis involved in invasion of porcine brain microvascular endothelial cells. *Microbial Pathogenesis*, **2009**, 46, 13-20	3.8	32
74	Characterization of porcine dendritic cell response to Streptococcus suis. *Veterinary Research*, **2011**, 42, 72	3.8	31
73	Immune receptors involved in Streptococcus suis recognition by dendritic cells. *PLoS ONE*, **2012**, 7, e44746	3.7	29
72	Group B Streptococcus and Streptococcus suis capsular polysaccharides induce chemokine production by dendritic cells via Toll-like receptor 2- and MyD88-dependent and -independent pathways. *Infection and Immunity*, **2013**, 81, 3106-18	3.7	28
71	Sialylation of Streptococcus suis serotype 2 is essential for capsule expression but is not responsible for the main capsular epitope. *Microbes and Infection*, **2012**, 14, 941-50	9.3	27
70	Role of capsular polysaccharide in Group B Streptococccus interactions with dendritic cells. *Microbes and Infection*, **2012**, 14, 1064-76	9.3	27
69	Protection against Streptococcus suis Serotype 2 Infection Using a Capsular Polysaccharide Glycoconjugate Vaccine. *Infection and Immunity*, **2016**, 84, 2059-2075	3.7	27
68	Genotyping and investigating capsular polysaccharide synthesis gene loci of non-serotypeable Streptococcus suis isolated from diseased pigs in Canada. *Veterinary Research*, **2017**, 48, 10	3.8	26
67	Antibody response specific to the capsular polysaccharide is impaired in Streptococcus suis serotype 2-infected animals. *Infection and Immunity*, **2015**, 83, 441-53	3.7	26
66	Toll-like receptor 2 is partially involved in the activation of murine astrocytes by Streptococcus suis, an important zoonotic agent of meningitis. *Journal of Neuroimmunology*, **2011**, 234, 71-83	3.5	25
65	Latest developments on Streptococcus suis: an emerging zoonotic pathogen: part 2. *Future Microbiology*, **2014**, 9, 587-91	2.9	24
64	Explaining the Serological Characteristics of Streptococcus suis Serotypes 1 and 1/2 from Their Capsular Polysaccharide Structure and Biosynthesis. *Journal of Biological Chemistry*, **2016**, 291, 8387-98	5.4	24
63	Identification of genes and genomic islands correlated with high pathogenicity in Streptococcus suis using whole genome tiling microarrays. *PLoS ONE*, **2011**, 6, e17987	3.7	23
62	Extracellular virulence factors of streptococci associated with animal diseases. *Frontiers in Bioscience - Landmark*, **2004**, 9, 1157-88	2.8	23
61	Encapsulated group B Streptococcus modulates dendritic cell functions via lipid rafts and clathrin-mediated endocytosis. *Cellular Microbiology*, **2012**, 14, 1707-19	3.9	22
60	Porcine brain microvascular endothelial cell-derived interleukin-8 is first induced and then degraded by Streptococcus suis. *Microbial Pathogenesis*, **2009**, 46, 135-43	3.8	21
59	Streptococcosis **2019**, 934-950		20

58	Streptococcus suis Infections in Humans: What is the prognosis for Western countries? (Part II). *Clinical Microbiology Newsletter*, **2010**, 32, 97-102	1.1	20
57	Transcriptional Analysis of PRRSV-Infected Porcine Dendritic Cell Response to Streptococcus suis Infection Reveals Up-Regulation of Inflammatory-Related Genes Expression. *PLoS ONE*, **2016**, 11, e0156019	3.7	20
56	The role of toll-like receptors in the pathogenesis of Streptococcus suis. *Veterinary Microbiology*, **2012**, 156, 147-56	3.3	19
55	Fisher scientific award lecture - the capsular polysaccharides of Group B Streptococcus and Streptococcus suis differently modulate bacterial interactions with dendritic cells. *Canadian Journal of Microbiology*, **2012**, 58, 249-60	3.2	18
54	Modulation of malaria-induced immunopathology by concurrent gastrointestinal nematode infection in mice. *International Journal for Parasitology*, **2009**, 39, 1525-32	4.3	18
53	Role of the capsular polysaccharide as a virulence factor for Streptococcus suis serotype 14. *Canadian Journal of Veterinary Research*, **2015**, 79, 141-6	0.5	18
52	Production and analysis of immunomodulatory excretory-secretory products from the mouse gastrointestinal nematode Heligmosomoides polygyrus bakeri. *Nature Protocols*, **2014**, 9, 2740-54	18.8	17
51	Transcriptional approach to study porcine tracheal epithelial cells individually or dually infected with swine influenza virus and Streptococcus suis. *BMC Veterinary Research*, **2014**, 10, 86	2.7	17
50	Recruitment of Factor H to the Streptococcus suis Cell Surface is Multifactorial. *Pathogens*, **2016**, 5,	4.5	17
49	Deregulated balance of omega-6 and omega-3 polyunsaturated fatty acids following infection by the zoonotic pathogen Streptococcus suis. *Infection and Immunity*, **2014**, 82, 1778-85	3.7	16
48	Intra-Species and Inter-Species Differences in Cytokine Production by Porcine Antigen-Presenting Cells Stimulated by , , and. *Pathogens*, **2019**, 8,	4.5	15
47	A multidisciplinary study of pain in cats undergoing dental extractions: A prospective, blinded, clinical trial. *PLoS ONE*, **2019**, 14, e0213195	3.7	15
46	Structure determination of Streptococcus suis serotype 9 capsular polysaccharide and assignment of functions of the cps locus genes involved in its biosynthesis. *Carbohydrate Research*, **2016**, 433, 25-30	2.9	15
45	Group B Streptococcus Induces a Robust IFN-□Response by CD4(+) T Cells in an In Vitro and In Vivo Model. *Journal of Immunology Research*, **2016**, 2016, 5290604	4.5	15
44	Interactions of Streptococcus suis serotype 2 with human meningeal cells and astrocytes. *BMC Research Notes*, **2015**, 8, 607	2.3	14
43	A single amino acid polymorphism in the glycosyltransferase CpsK defines four Streptococcus suis serotypes. *Scientific Reports*, **2017**, 7, 4066	4.9	13
42	IRF-8 regulates expansion of myeloid-derived suppressor cells and Foxp3+ regulatory T cells and modulates Th2 immune responses to gastrointestinal nematode infection. *PLoS Pathogens*, **2017**, 13, e1006647	7.6	13
41	Role of the Streptococcus suis serotype 2 capsular polysaccharide in the interactions with dendritic cells is strain-dependent but remains critical for virulence. *PLoS ONE*, **2018**, 13, e0200453	3.7	13

40	In vitro effect of deoxynivalenol (DON) mycotoxin on porcine reproductive and respiratory syndrome virus replication. *Food and Chemical Toxicology*, **2014**, 65, 219-26	4.7	13
39	Toll-like receptor 2-independent host innate immune response against an epidemic strain of Streptococcus suis that causes a toxic shock-like syndrome in humans. *PLoS ONE*, **2013**, 8, e65031	3.7	13
38	Interleukin-1 signaling induced by Streptococcus suis serotype 2 is strain-dependent and contributes to bacterial clearance and inflammation during systemic disease in a mouse model of infection. *Veterinary Research*, **2019**, 50, 52	3.8	12
37	The NOD2 receptor does not play a major role in the pathogenesis of Group B Streptococcus in mice. *Microbial Pathogenesis*, **2013**, 65, 41-7	3.8	11
36	Type I Interferon Induced by Serotype 2 is Strain-Dependent and May Be Beneficial for Host Survival. *Frontiers in Immunology*, **2017**, 8, 1039	8.4	11
35	Review of the speculative role of co-infections in Streptococcus suis-associated diseases in pigs. *Veterinary Research*, **2021**, 52, 49	3.8	11
34	Sex-specific maternofetal innate immune responses triggered by group B Streptococci. *Scientific Reports*, **2019**, 9, 8587	4.9	10
33	Natural Killer Cell Functions during the Innate Immune Response to Pathogenic Streptococci. *Frontiers in Microbiology*, **2017**, 8, 1196	5.7	10
32	Implication of TLR- but not of NOD2-signaling pathways in dendritic cell activation by group B Streptococcus serotypes III and V. *PLoS ONE*, **2014**, 9, e113940	3.7	10
31	Serotype 2 Infection Impairs Interleukin-12 Production and the MHC-II-Restricted Antigen Presentation Capacity of Dendritic Cells. *Frontiers in Immunology*, **2018**, 9, 1199	8.4	9
30	Evaluation of the pathogenesis of meningitis caused by Streptococcus suis sequence type 7 using the infection of BV2 microglial cells. *Journal of Medical Microbiology*, **2013**, 62, 360-368	3.2	9
29	Immune-responsiveness of CD4 T cells during Streptococcus suis serotype 2 infection. *Scientific Reports*, **2016**, 6, 38061	4.9	9
28	Structure determination of Streptococcus suis serotypes 7 and 8 capsular polysaccharides and assignment of functions of the cps locus genes involved in their biosynthesis. *Carbohydrate Research*, **2019**, 473, 36-45	2.9	9
27	Impact of Actinobacillus pleuropneumoniae biofilm mode of growth on the lipid A structures and stimulation of immune cells. *Innate Immunity*, **2016**, 22, 353-62	2.7	8
26	Streptococcus suis serotype 3 and serotype 18 capsular polysaccharides contain di-N-acetyl-bacillosamine. *Carbohydrate Research*, **2018**, 466, 18-29	2.9	8
25	Evaluation of the Immunomodulatory Properties of Streptococcus suis and Group B Streptococcus Capsular Polysaccharides on the Humoral Response. *Pathogens*, **2017**, 6,	4.5	7
24	Limited Interactions between Streptococcus Suis and Haemophilus Parasuis in In Vitro Co-Infection Studies. *Pathogens*, **2018**, 7,	4.5	7
23	Porcine Dendritic Cells as an In Vitro Model to Assess the Immunological Behaviour of Streptococcus suis Subunit Vaccine Formulations and the Polarizing Effect of Adjuvants. *Pathogens*, **2017**, 6,	4.5	7

22	Field Study on the Immunological Response and Protective Effect of a Licensed Autogenous Vaccine to Control Infections in Post-Weaned Piglets. *Vaccines*, **2020**, 8,	5.3	7
21	Differential role of MyD88 signaling in Streptococcus suis serotype 2-induced systemic and central nervous system diseases. *International Immunology*, **2019**, 31, 697-714	4.9	6
20	Murine Whole-Blood Opsonophagocytosis Assay to Evaluate Protection by Antibodies Raised Against Encapsulated Extracellular Bacteria. *Methods in Molecular Biology*, **2015**, 1331, 81-92	1.4	6
19	Characterization and Protective Activity of Monoclonal Antibodies Directed against Serotype 2 Capsular Polysaccharide Obtained Using a Glycoconjugate. *Pathogens*, **2019**, 8,	4.5	5
18	Inflammatory Monocytes and Neutrophils Regulate Streptococcus suis-Induced Systemic Inflammation and Disease but Are Not Critical for the Development of Central Nervous System Disease in a Mouse Model of Infection. *Infection and Immunity*, **2020**, 88,	3.7	5
17	Interactions of Streptococcus suis serotype 9 with host cells and role of the capsular polysaccharide: Comparison with serotypes 2 and 14. *PLoS ONE*, **2019**, 14, e0223864	3.7	5
16	Genomic Recombination Leading to Decreased Virulence of Group B Streptococcus in a Mouse Model of Adult Invasive Disease. *Pathogens*, **2016**, 5,	4.5	5
15	Pain burden, sensory profile and inflammatory cytokines of dogs with naturally-occurring neuropathic pain treated with gabapentin alone or with meloxicam. *PLoS ONE*, **2020**, 15, e0237121	3.7	4
14	Antigen I/II Participates in the Interactions of Serotype 9 With Phagocytes and the Development of Systemic Disease. *Frontiers in Cellular and Infection Microbiology*, **2019**, 9, 124	5.9	3
13	Identification of a novel TLR5 agonist derived from the P97 protein of Mycoplasma hyopneumoniae. *Immunobiology*, **2020**, 225, 151962	3.4	3
12	Recognition of Lipoproteins by Toll-like Receptor 2 and DNA by the AIM2 Inflammasome Is Responsible for Production of Interleukin-1β by Virulent Suilysin-negative Serotype 2. *Pathogens*, **2020**, 9,	4.5	3
11	Comparative Study of Immunogenic Properties of Purified Capsular Polysaccharides from Serotypes 3, 7, 8, and 9: the Serotype 3 Polysaccharide Induces an Opsonizing IgG Response. *Infection and Immunity*, **2020**, 88,	3.7	3
10	Capsular polysaccharide switching in Streptococcus suis modulates host cell interactions and virulence. *Scientific Reports*, **2021**, 11, 6513	4.9	3
9	Phagocytosis, bacterial killing, and cytokine activation of circulating blood neutrophils in horses with severe equine asthma and control horses. *American Journal of Veterinary Research*, **2018**, 79, 455-464	1.1	2
8	Capsular Sialyltransferase Specificity Mediates Different Phenotypes in and Group B. *Frontiers in Microbiology*, **2018**, 9, 545	5.7	2
7	Experimental evaluation of protection and immunogenicity of Streptococcus suis bacterin-based vaccines formulated with different commercial adjuvants in weaned piglets. *Veterinary Research*, **2021**, 52, 133	3.8	2
6	In vitro characterization of granulocyte-colony stimulating factor (G-CSF) production by dendritic cells and macrophages during Streptococcus suis infection. *Immunobiology*, **2020**, 225, 151979	3.4	2
5	Neutrophils in Infection: From Host Defense to Pathology. *Microorganisms*, **2021**, 9,	4.9	1

4	Immunogenicity study of a Streptococcus suis autogenous vaccine in preparturient sows and evaluation of passive maternal immunity in piglets. *BMC Veterinary Research*, **2021**, 17, 72	2.7	1
3	Piglet innate immune response to Streptococcus suis colonization is modulated by the virulence of the strain.. *Veterinary Research*, **2021**, 52, 145	3.8	1
2	Ampicillin Treatment Increases Placental Interleukin-1 Beta Concentration and Polymorphonuclear Infiltration in Group B Streptococcus-Induced Chorioamnionitis: A Preclinical Study. *Neonatology*, **2020**, 117, 369-373	4	0
1	Pre- and Post-partum Concentrations of Interleukin 1, Interleukin 8, and -Acid Glycoprotein in Vaginal Fornix and Endometrium of Dairy Cows With Clinical Cervicitis. *Frontiers in Veterinary Science*, **2020**, 7, 605773	3.1	0