

# Mariela Segura

## List of Publications by Year in Descending Order

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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	Neutrophils in Infection: From Host Defense to Pathology. <i>Microorganisms</i> , <b>2021</b> , 9,	4.9	1
110	Experimental evaluation of protection and immunogenicity of Streptococcus suis bacterin-based vaccines formulated with different commercial adjuvants in weaned piglets. <i>Veterinary Research</i> , <b>2021</b> , 52, 133	3.8	2
109	Review of the speculative role of co-infections in Streptococcus suis-associated diseases in pigs. <i>Veterinary Research</i> , <b>2021</b> , 52, 49	3.8	11
108	Capsular polysaccharide switching in Streptococcus suis modulates host cell interactions and virulence. <i>Scientific Reports</i> , <b>2021</b> , 11, 6513	4.9	3
107	Immunogenicity study of a Streptococcus suis autogenous vaccine in preparturient sows and evaluation of passive maternal immunity in piglets. <i>BMC Veterinary Research</i> , <b>2021</b> , 17, 72	2.7	1
106	Piglet innate immune response to Streptococcus suis colonization is modulated by the virulence of the strain.. <i>Veterinary Research</i> , <b>2021</b> , 52, 145	3.8	1
105	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. <i>Infection and Immunity</i> , <b>2020</b> , 88,	3.7	5
104	Ampicillin Treatment Increases Placental Interleukin-1 Beta Concentration and Polymorphonuclear Infiltration in Group B Streptococcus-Induced Chorioamnionitis: A Preclinical Study. <i>Neonatology</i> , <b>2020</b> , 117, 369-373	4	0
103	Identification of a novel TLR5 agonist derived from the P97 protein of Mycoplasma hyopneumoniae. <i>Immunobiology</i> , <b>2020</b> , 225, 151962	3.4	3
102	Recognition of Lipoproteins by Toll-like Receptor 2 and DNA by the AIM2 Inflammasome Is Responsible for Production of Interleukin-1 by Virulent Suilysin-negative Serotype 2. <i>Pathogens</i> , <b>2020</b> , 9,	4.5	3
101	Pain burden, sensory profile and inflammatory cytokines of dogs with naturally-occurring neuropathic pain treated with gabapentin alone or with meloxicam. <i>PLoS ONE</i> , <b>2020</b> , 15, e0237121	3.7	4
100	Field Study on the Immunological Response and Protective Effect of a Licensed Autogenous Vaccine to Control Infections in Post-Weaned Piglets. <i>Vaccines</i> , <b>2020</b> , 8,	5.3	7
99	In vitro characterization of granulocyte-colony stimulating factor (G-CSF) production by dendritic cells and macrophages during Streptococcus suis infection. <i>Immunobiology</i> , <b>2020</b> , 225, 151979	3.4	2
98	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. <i>Infection and Immunity</i> , <b>2020</b> , 88,	3.7	3
97	Pre- and Post-partum Concentrations of Interleukin 1, Interleukin 8, and $\alpha$ -Acid Glycoprotein in Vaginal Fornix and Endometrium of Dairy Cows With Clinical Cervicitis. <i>Frontiers in Veterinary Science</i> , <b>2020</b> , 7, 605773	3.1	0
96	Characterization and Protective Activity of Monoclonal Antibodies Directed against Serotype 2 Capsular Polysaccharide Obtained Using a Glycoconjugate. <i>Pathogens</i> , <b>2019</b> , 8,	4.5	5
95	Sex-specific maternofetal innate immune responses triggered by group B Streptococci. <i>Scientific Reports</i> , <b>2019</b> , 9, 8587	4.9	10

94	Antigen I/II Participates in the Interactions of Serotype 9 With Phagocytes and the Development of Systemic Disease. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2019</b> , 9, 124	5.9	3
93	Intra-Species and Inter-Species Differences in Cytokine Production by Porcine Antigen-Presenting Cells Stimulated by , , and. <i>Pathogens</i> , <b>2019</b> , 8,	4.5	15
92	A multidisciplinary study of pain in cats undergoing dental extractions: A prospective, blinded, clinical trial. <i>PLoS ONE</i> , <b>2019</b> , 14, e0213195	3.7	15
91	Streptococcosis <b>2019</b> , 934-950		20
90	Differential role of MyD88 signaling in Streptococcus suis serotype 2-induced systemic and central nervous system diseases. <i>International Immunology</i> , <b>2019</b> , 31, 697-714	4.9	6
89	A platform for glycoengineering a polyvalent pneumococcal bioconjugate vaccine using E. coli as a host. <i>Nature Communications</i> , <b>2019</b> , 10, 891	17.4	35
88	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. <i>Veterinary Research</i> , <b>2019</b> , 50, 52	3.8	12
87	Interactions of Streptococcus suis serotype 9 with host cells and role of the capsular polysaccharide: Comparison with serotypes 2 and 14. <i>PLoS ONE</i> , <b>2019</b> , 14, e0223864	3.7	5
86	Structure determination of Streptococcus suis serotypes 7 and 8 capsular polysaccharides and assignment of functions of the cps locus genes involved in their biosynthesis. <i>Carbohydrate Research</i> , <b>2019</b> , 473, 36-45	2.9	9
85	Phagocytosis, bacterial killing, and cytokine activation of circulating blood neutrophils in horses with severe equine asthma and control horses. <i>American Journal of Veterinary Research</i> , <b>2018</b> , 79, 455-464 <sup>1,1</sup>		2
84	Limited Interactions between Streptococcus Suis and Haemophilus Parasuis in In Vitro Co-Infection Studies. <i>Pathogens</i> , <b>2018</b> , 7,	4.5	7
83	Serotype 2 Infection Impairs Interleukin-12 Production and the MHC-II-Restricted Antigen Presentation Capacity of Dendritic Cells. <i>Frontiers in Immunology</i> , <b>2018</b> , 9, 1199	8.4	9
82	Capsular Sialyltransferase Specificity Mediates Different Phenotypes in and Group B. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 545	5.7	2
81	Streptococcus suis serotype 3 and serotype 18 capsular polysaccharides contain di-N-acetyl-bacillosamine. <i>Carbohydrate Research</i> , <b>2018</b> , 466, 18-29	2.9	8
80	Role of the Streptococcus suis serotype 2 capsular polysaccharide in the interactions with dendritic cells is strain-dependent but remains critical for virulence. <i>PLoS ONE</i> , <b>2018</b> , 13, e0200453	3.7	13
79	Genotyping and investigating capsular polysaccharide synthesis gene loci of non-serotypeable Streptococcus suis isolated from diseased pigs in Canada. <i>Veterinary Research</i> , <b>2017</b> , 48, 10	3.8	26
78	Critical Streptococcus suis Virulence Factors: Are They All Really Critical?. <i>Trends in Microbiology</i> , <b>2017</b> , 25, 585-599	12.4	107
77	A single amino acid polymorphism in the glycosyltransferase CpsK defines four Streptococcus suis serotypes. <i>Scientific Reports</i> , <b>2017</b> , 7, 4066	4.9	13

76	IRF-8 regulates expansion of myeloid-derived suppressor cells and Foxp3+ regulatory T cells and modulates Th2 immune responses to gastrointestinal nematode infection. <i>PLoS Pathogens</i> , <b>2017</b> , 13, e1006647	7.6	13
75	Evaluation of the Immunomodulatory Properties of Streptococcus suis and Group B Streptococcus Capsular Polysaccharides on the Humoral Response. <i>Pathogens</i> , <b>2017</b> , 6,	4.5	7
74	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. <i>Pathogens</i> , <b>2017</b> , 6,	4.5	7
73	Type I Interferon Induced by Serotype 2 is Strain-Dependent and May Be Beneficial for Host Survival. <i>Frontiers in Immunology</i> , <b>2017</b> , 8, 1039	8.4	11
72	Natural Killer Cell Functions during the Innate Immune Response to Pathogenic Streptococci. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 1196	5.7	10
71	Initial steps of the pathogenesis of the infection caused by Streptococcus suis: fighting against nonspecific defenses. <i>FEBS Letters</i> , <b>2016</b> , 590, 3772-3799	3.8	69
70	Structure determination of Streptococcus suis serotype 9 capsular polysaccharide and assignment of functions of the cps locus genes involved in its biosynthesis. <i>Carbohydrate Research</i> , <b>2016</b> , 433, 25-30	2.9	15
69	Impact of Actinobacillus pleuropneumoniae biofilm mode of growth on the lipid A structures and stimulation of immune cells. <i>Innate Immunity</i> , <b>2016</b> , 22, 353-62	2.7	8
68	Group B Streptococcus Induces a Robust IFN- $\gamma$ Response by CD4(+) T Cells in an In Vitro and In Vivo Model. <i>Journal of Immunology Research</i> , <b>2016</b> , 2016, 5290604	4.5	15
67	Recruitment of Factor H to the Streptococcus suis Cell Surface is Multifactorial. <i>Pathogens</i> , <b>2016</b> , 5,	4.5	17
66	Virulence Studies of Different Sequence Types and Geographical Origins of Streptococcus suis Serotype 2 in a Mouse Model of Infection. <i>Pathogens</i> , <b>2016</b> , 5,	4.5	36
65	Genomic Recombination Leading to Decreased Virulence of Group B Streptococcus in a Mouse Model of Adult Invasive Disease. <i>Pathogens</i> , <b>2016</b> , 5,	4.5	5
64	Transcriptional Analysis of PRRSV-Infected Porcine Dendritic Cell Response to Streptococcus suis Infection Reveals Up-Regulation of Inflammatory-Related Genes Expression. <i>PLoS ONE</i> , <b>2016</b> , 11, e0156019	3.7	20
63	Immune-responsiveness of CD4 T cells during Streptococcus suis serotype 2 infection. <i>Scientific Reports</i> , <b>2016</b> , 6, 38061	4.9	9
62	Glycoengineered Outer Membrane Vesicles: A Novel Platform for Bacterial Vaccines. <i>Scientific Reports</i> , <b>2016</b> , 6, 24931	4.9	61
61	Explaining the Serological Characteristics of Streptococcus suis Serotypes 1 and 1/2 from Their Capsular Polysaccharide Structure and Biosynthesis. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 8387-98	5.4	24
60	Protection against Streptococcus suis Serotype 2 Infection Using a Capsular Polysaccharide Glycoconjugate Vaccine. <i>Infection and Immunity</i> , <b>2016</b> , 84, 2059-2075	3.7	27
59	Antibody response specific to the capsular polysaccharide is impaired in Streptococcus suis serotype 2-infected animals. <i>Infection and Immunity</i> , <b>2015</b> , 83, 441-53	3.7	26

58	Streptococcus suis vaccines: candidate antigens and progress. <i>Expert Review of Vaccines</i> , <b>2015</b> , 14, 1587-608	6.8	66
57	Interactions of Streptococcus suis serotype 2 with human meningeal cells and astrocytes. <i>BMC Research Notes</i> , <b>2015</b> , 8, 607	2.3	14
56	Role of the capsular polysaccharide as a virulence factor for Streptococcus suis serotype 14. <i>Canadian Journal of Veterinary Research</i> , <b>2015</b> , 79, 141-6	0.5	18
55	Murine Whole-Blood Opsonophagocytosis Assay to Evaluate Protection by Antibodies Raised Against Encapsulated Extracellular Bacteria. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1331, 81-92	1.4	6
54	Production and analysis of immunomodulatory excretory-secretory products from the mouse gastrointestinal nematode Heligmosomoides polygyrus bakeri. <i>Nature Protocols</i> , <b>2014</b> , 9, 2740-54	18.8	17
53	Transcriptional approach to study porcine tracheal epithelial cells individually or dually infected with swine influenza virus and Streptococcus suis. <i>BMC Veterinary Research</i> , <b>2014</b> , 10, 86	2.7	17
52	In vitro effect of deoxynivalenol (DON) mycotoxin on porcine reproductive and respiratory syndrome virus replication. <i>Food and Chemical Toxicology</i> , <b>2014</b> , 65, 219-26	4.7	13
51	Latest developments on Streptococcus suis: an emerging zoonotic pathogen: part 2. <i>Future Microbiology</i> , <b>2014</b> , 9, 587-91	2.9	24
50	Streptococcus suis, an important pig pathogen and emerging zoonotic agent-an update on the worldwide distribution based on serotyping and sequence typing. <i>Emerging Microbes and Infections</i> , <b>2014</b> , 3, e45	18.9	355
49	Implication of TLR- but not of NOD2-signaling pathways in dendritic cell activation by group B Streptococcus serotypes III and V. <i>PLoS ONE</i> , <b>2014</b> , 9, e113940	3.7	10
48	Deregulated balance of omega-6 and omega-3 polyunsaturated fatty acids following infection by the zoonotic pathogen Streptococcus suis. <i>Infection and Immunity</i> , <b>2014</b> , 82, 1778-85	3.7	16
47	Structure determination of Streptococcus suis serotype 14 capsular polysaccharide. <i>Biochemistry and Cell Biology</i> , <b>2013</b> , 91, 49-58	3.6	36
46	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. <i>Infection and Immunity</i> , <b>2013</b> , 81, 3106-18	3.7	28
45	The NOD2 receptor does not play a major role in the pathogenesis of Group B Streptococcus in mice. <i>Microbial Pathogenesis</i> , <b>2013</b> , 65, 41-7	3.8	11
44	Exacerbated type II interferon response drives hypervirulence and toxic shock by an emergent epidemic strain of Streptococcus suis. <i>Infection and Immunity</i> , <b>2013</b> , 81, 1928-39	3.7	44
43	Evaluation of the pathogenesis of meningitis caused by Streptococcus suis sequence type 7 using the infection of BV2 microglial cells. <i>Journal of Medical Microbiology</i> , <b>2013</b> , 62, 360-368	3.2	9
42	Capsular sialic acid of Streptococcus suis serotype 2 binds to swine influenza virus and enhances bacterial interactions with virus-infected tracheal epithelial cells. <i>Infection and Immunity</i> , <b>2013</b> , 81, 4498-508	3.7	40
41	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. <i>PLoS ONE</i> , <b>2013</b> , 8, e65031	3.7	13

40	The role of toll-like receptors in the pathogenesis of <i>Streptococcus suis</i> . <i>Veterinary Microbiology</i> , <b>2012</b> , 156, 147-56	3.3	19
39	Encapsulated group B <i>Streptococcus</i> modulates dendritic cell functions via lipid rafts and clathrin-mediated endocytosis. <i>Cellular Microbiology</i> , <b>2012</b> , 14, 1707-19	3.9	22
38	Virulence factors involved in the pathogenesis of the infection caused by the swine pathogen and zoonotic agent <i>Streptococcus suis</i> . <i>Future Microbiology</i> , <b>2012</b> , 7, 259-79	2.9	277
37	Fisher scientific award lecture - the capsular polysaccharides of Group B <i>Streptococcus</i> and <i>Streptococcus suis</i> differently modulate bacterial interactions with dendritic cells. <i>Canadian Journal of Microbiology</i> , <b>2012</b> , 58, 249-60	3.2	18
36	Sialylation of <i>Streptococcus suis</i> serotype 2 is essential for capsule expression but is not responsible for the main capsular epitope. <i>Microbes and Infection</i> , <b>2012</b> , 14, 941-50	9.3	27
35	Role of capsular polysaccharide in Group B <i>Streptococcus</i> interactions with dendritic cells. <i>Microbes and Infection</i> , <b>2012</b> , 14, 1064-76	9.3	27
34	<i>Streptococcus suis</i> capsular polysaccharide inhibits phagocytosis through destabilization of lipid microdomains and prevents lactosylceramide-dependent recognition. <i>Infection and Immunity</i> , <b>2012</b> , 80, 506-17	3.7	46
33	Immune receptors involved in <i>Streptococcus suis</i> recognition by dendritic cells. <i>PLoS ONE</i> , <b>2012</b> , 7, e44746	3.7	29
32	Identification of genes and genomic islands correlated with high pathogenicity in <i>Streptococcus suis</i> using whole genome tiling microarrays. <i>PLoS ONE</i> , <b>2011</b> , 6, e17987	3.7	23
31	Toll-like receptor 2 is partially involved in the activation of murine astrocytes by <i>Streptococcus suis</i> , an important zoonotic agent of meningitis. <i>Journal of Neuroimmunology</i> , <b>2011</b> , 234, 71-83	3.5	25
30	Characterization of porcine dendritic cell response to <i>Streptococcus suis</i> . <i>Veterinary Research</i> , <b>2011</b> , 42, 72	3.8	31
29	Critical role for <i>Streptococcus suis</i> cell wall modifications and sulysin in resistance to complement-dependent killing by dendritic cells. <i>Journal of Infectious Diseases</i> , <b>2011</b> , 204, 919-29	7	85
28	Proteomic analysis of excretory-secretory products of <i>Heligmosomoides polygyrus</i> assessed with next-generation sequencing transcriptomic information. <i>PLoS Neglected Tropical Diseases</i> , <b>2011</b> , 5, e1370	4.8	70
27	In vitro characterization of the microglial inflammatory response to <i>Streptococcus suis</i> , an important emerging zoonotic agent of meningitis. <i>Infection and Immunity</i> , <b>2010</b> , 78, 5074-85	3.7	41
26	<i>Streptococcus suis</i> : a new emerging or an old neglected zoonotic pathogen?. <i>Future Microbiology</i> , <b>2010</b> , 5, 371-91	2.9	310
25	<i>Streptococcus suis</i> Infections in Humans: What is the prognosis for Western countries? (Part II). <i>Clinical Microbiology Newsletter</i> , <b>2010</b> , 32, 97-102	1.1	20
24	<i>Streptococcus suis</i> : an emerging human threat. <i>Journal of Infectious Diseases</i> , <b>2009</b> , 199, 4-6	7	58
23	New putative virulence factors of <i>Streptococcus suis</i> involved in invasion of porcine brain microvascular endothelial cells. <i>Microbial Pathogenesis</i> , <b>2009</b> , 46, 13-20	3.8	32

22	Porcine brain microvascular endothelial cell-derived interleukin-8 is first induced and then degraded by <i>Streptococcus suis</i> . <i>Microbial Pathogenesis</i> , <b>2009</b> , 46, 135-43	3.8	21
21	Modulation of malaria-induced immunopathology by concurrent gastrointestinal nematode infection in mice. <i>International Journal for Parasitology</i> , <b>2009</b> , 39, 1525-32	4.3	18
20	Comparison of the susceptibilities of C57BL/6 and A/J mouse strains to <i>Streptococcus suis</i> serotype 2 infection. <i>Infection and Immunity</i> , <b>2008</b> , 76, 3901-10	3.7	59
19	<i>Streptococcus suis</i> serotype 2, an important swine and human pathogen, induces strong systemic and cerebral inflammatory responses in a mouse model of infection. <i>Journal of Immunology</i> , <b>2007</b> , 179, 1842-54	5.3	150
18	Impairment of dendritic cell function by excretory-secretory products: a potential mechanism for nematode-induced immunosuppression. <i>European Journal of Immunology</i> , <b>2007</b> , 37, 1887-904	6.1	149
17	TLR2-dependent recognition of <i>Streptococcus suis</i> is modulated by the presence of capsular polysaccharide which modifies macrophage responsiveness. <i>International Immunology</i> , <b>2007</b> , 19, 375-89	4.9	93
16	<i>Streptococcus suis</i> infections in humans: the Chinese experience and the situation in North America. <i>Animal Health Research Reviews</i> , <b>2007</b> , 8, 29-45	2.1	243
15	Reduced protective efficacy of a blood-stage malaria vaccine by concurrent nematode infection. <i>Infection and Immunity</i> , <b>2006</b> , 74, 2138-44	3.7	69
14	Interaction of mouse dendritic cells and malaria-infected erythrocytes: uptake, maturation, and antigen presentation. <i>Journal of Immunology</i> , <b>2006</b> , 176, 441-50	5.3	101
13	Phagocytosis and killing of <i>Streptococcus suis</i> by porcine neutrophils. <i>Microbial Pathogenesis</i> , <b>2006</b> , 41, 21-32	3.8	115
12	Proinflammatory cytokine and chemokine modulation by <i>Streptococcus suis</i> in a whole-blood culture system. <i>FEMS Immunology and Medical Microbiology</i> , <b>2006</b> , 47, 92-106		58
11	<i>Streptococcus suis</i> sequence type 7 outbreak, Sichuan, China. <i>Emerging Infectious Diseases</i> , <b>2006</b> , 12, 1203-8	10.2	70
10	<i>Streptococcus suis</i> Sequence Type 7 Outbreak, Sichuan, China. <i>Emerging Infectious Diseases</i> , <b>2006</b> , 12, 1203-1208	10.2	134
9	Impairment of protective immunity to blood-stage malaria by concurrent nematode infection. <i>Infection and Immunity</i> , <b>2005</b> , 73, 3531-9	3.7	114
8	Extracellular virulence factors of streptococci associated with animal diseases. <i>Frontiers in Bioscience - Landmark</i> , <b>2004</b> , 9, 1157-88	2.8	23
7	Invasion of porcine brain microvascular endothelial cells by <i>Streptococcus suis</i> serotype 2. <i>Infection and Immunity</i> , <b>2004</b> , 72, 1441-9	3.7	94
6	Encapsulated <i>Streptococcus suis</i> inhibits activation of signaling pathways involved in phagocytosis. <i>Infection and Immunity</i> , <b>2004</b> , 72, 5322-30	3.7	81
5	Pro-inflammatory cytokine and chemokine release by human brain microvascular endothelial cells stimulated by <i>Streptococcus suis</i> serotype 2. <i>FEMS Immunology and Medical Microbiology</i> , <b>2003</b> , 35, 49-58		103

4	Streptococcus suis interactions with the murine macrophage cell line J774: adhesion and cytotoxicity. <i>Infection and Immunity</i> , <b>2002</b> , 70, 4312-22	3·7	72
3	The pathogenesis of the meningitis caused by Streptococcus suis: the unresolved questions. <i>Veterinary Microbiology</i> , <b>2000</b> , 76, 259-72	3·3	275
2	Interactions between Streptococcus suis serotype 2 and different epithelial cell lines. <i>Microbiology (United Kingdom)</i> , <b>2000</b> , 146 ( Pt 8), 1913-1921	2·9	90
1	Heat-killed Streptococcus suis capsular type 2 strains stimulate tumor necrosis factor alpha and interleukin-6 production by murine macrophages. <i>Infection and Immunity</i> , <b>1999</b> , 67, 4646-54	3·7	71