

Ivan Rychlik

List of Publications by Year in descending order

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93
papers

3,762
citations

147726

31
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143943

57
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all docs

94
docs citations

94
times ranked

3667
citing authors

#	ARTICLE	IF	CITATIONS
1	Important Metabolic Pathways and Biological Processes Expressed by Chicken Cecal Microbiota. <i>Applied and Environmental Microbiology</i> , 2016, 82, 1569-1576.	1.4	281
2	Immune Response of Chicken Gut to Natural Colonization by Gut Microflora and to <i>Salmonella enterica</i> Serovar Enteritidis Infection. <i>Infection and Immunity</i> , 2011, 79, 2755-2763.	1.0	265
3	Composition and Function of Chicken Gut Microbiota. <i>Animals</i> , 2020, 10, 103.	1.0	200
4	Salmonella stress management and its relevance to behaviour during intestinal colonisation and infection. <i>FEMS Microbiology Reviews</i> , 2005, 29, 1021-1040.	3.9	166
5	Distribution and function of plasmids in <i>Salmonella enterica</i> . <i>Veterinary Microbiology</i> , 2006, 112, 1-10.	0.8	159
6	Succession and Replacement of Bacterial Populations in the Caecum of Egg Laying Hens over Their Whole Life. <i>PLoS ONE</i> , 2014, 9, e115142.	1.1	151
7	Whole genome sequencing and function prediction of 133 gut anaerobes isolated from chicken caecum in pure cultures. <i>BMC Genomics</i> , 2018, 19, 561.	1.2	108
8	Virulence potential of five major pathogenicity islands (SPI-1 to SPI-5) of <i>Salmonella enterica</i> serovar Enteritidis for chickens. <i>BMC Microbiology</i> , 2009, 9, 268.	1.3	107
9	Chicken faecal microbiota and disturbances induced by single or repeated therapy with tetracycline and streptomycin. <i>BMC Veterinary Research</i> , 2013, 9, 30.	0.7	96
10	Chicken innate immune response to oral infection with <i>Salmonella enterica</i> serovar Enteritidis. <i>Veterinary Research</i> , 2013, 44, 37.	1.1	95
11	Gene expression in the chicken caecum in response to infections with non-typhoid <i>Salmonella</i> . <i>Veterinary Research</i> , 2014, 45, 119.	1.1	92
12	Influence of <i>Salmonella enterica</i> serovar Enteritidis infection on the composition of chicken cecal microbiota. <i>BMC Veterinary Research</i> , 2013, 9, 140.	0.7	91
13	Contact with adult hen affects development of caecal microbiota in newly hatched chicks. <i>PLoS ONE</i> , 2019, 14, e0212446.	1.1	87
14	Influence of the microbiota-gut-brain axis on behavior and welfare in farm animals: A review. <i>Physiology and Behavior</i> , 2019, 210, 112658.	1.0	78
15	Characterization of Chicken Spleen Transcriptome after Infection with <i>Salmonella enterica</i> Serovar Enteritidis. <i>PLoS ONE</i> , 2012, 7, e48101.	1.1	77
16	Characterization of Egg Laying Hen and Broiler Fecal Microbiota in Poultry Farms in Croatia, Czech Republic, Hungary and Slovenia. <i>PLoS ONE</i> , 2014, 9, e110076.	1.1	70
17	Housing Systems Influence Gut Microbiota Composition of Sows but Not of Their Piglets. <i>PLoS ONE</i> , 2017, 12, e0170051.	1.1	68
18	Composition of Gut Microbiota Influences Resistance of Newly Hatched Chickens to <i>Salmonella</i> Enteritidis Infection. <i>Frontiers in Microbiology</i> , 2016, 7, 957.	1.5	67

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19	Influence of the Gut Microbiota Composition on <i>Campylobacter jejuni</i> Colonization in Chickens. <i>Infection and Immunity</i> , 2017, 85, .	1.0	66
20	Biofilm formation in field strains of <i>Salmonella enterica</i> serovar Typhimurium: Identification of a new colony morphology type and the role of SGI1 in biofilm formation. <i>Veterinary Microbiology</i> , 2008, 129, 360-366.	0.8	55
21	Characterization of Antibiotic Resistance Gene Abundance and Microbiota Composition in Feces of Organic and Conventional Pigs from Four EU Countries. <i>PLoS ONE</i> , 2015, 10, e0132892.	1.1	52
22	SPI-1-encoded type III secretion system of <i>Salmonella enterica</i> is required for the suppression of porcine alveolar macrophage cytokine expression. <i>Veterinary Research</i> , 2011, 42, 16.	1.1	51
23	Comparative analysis of <i>Salmonella enterica</i> serovar Enteritidis mutants with a vaccine potential. <i>Vaccine</i> , 2009, 27, 5265-5270.	1.7	50
24	Development of piglet gut microbiota at the time of weaning influences development of postweaning diarrhea – A field study. <i>Research in Veterinary Science</i> , 2021, 135, 59-65.	0.9	45
25	Effects of host genetics and environmental conditions on fecal microbiota composition of pigs. <i>PLoS ONE</i> , 2018, 13, e0201901.	1.1	44
26	Use of 16S rRNA gene sequencing for prediction of new opportunistic pathogens in chicken ileal and cecal microbiota. <i>Poultry Science</i> , 2019, 98, 2347-2353.	1.5	44
27	aro Mutations in <i>Salmonella enterica</i> Cause Defects in Cell Wall and Outer Membrane Integrity. <i>Journal of Bacteriology</i> , 2008, 190, 3155-3160.	1.0	41
28	Curcuma and <i>Scutellaria</i> plant extracts protect chickens against inflammation and <i>Salmonella</i> Enteritidis infection. <i>Poultry Science</i> , 2015, 94, 2049-2058.	1.5	38
29	Characterization of Microbiota Composition and Presence of Selected Antibiotic Resistance Genes in Carriage Water of Ornamental Fish. <i>PLoS ONE</i> , 2014, 9, e103865.	1.1	37
30	Does selection for growth rate in broilers affect their resistance and tolerance to <i>Eimeria maxima</i> ?. <i>Veterinary Parasitology</i> , 2018, 258, 88-98.	0.7	37
31	Differential protein expression in chicken macrophages and heterophils in vivo following infection with <i>Salmonella</i> Enteritidis. <i>Veterinary Research</i> , 2017, 48, 35.	1.1	36
32	Gut Anaerobes Capable of Chicken Caecum Colonisation. <i>Microorganisms</i> , 2019, 7, 597.	1.6	35
33	Vaccination of chickens with <i>Salmonella</i> Pathogenicity Island (SPI) 1 and SPI2 defective mutants of <i>Salmonella enterica</i> serovar Enteritidis. <i>Vaccine</i> , 2012, 30, 2090-2097.	1.7	33
34	Transient and Prolonged Response of Chicken Cecum Mucosa to Colonization with Different Gut Microbiota. <i>PLoS ONE</i> , 2016, 11, e0163932.	1.1	30
35	SPI-1 encoded genes of <i>Salmonella</i> Typhimurium influence differential polarization of porcine alveolar macrophages in vitro. <i>BMC Veterinary Research</i> , 2012, 8, 115.	0.7	29
36	Systematic Culturomics Shows that Half of Chicken Caecal Microbiota Members can be Grown in Vitro Except for Two Lineages of Clostridiales and a Single Lineage of Bacteroidetes. <i>Microorganisms</i> , 2019, 7, 496.	1.6	29

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37	Identification of putative ancestors of the multidrug-resistant <i>Salmonella enterica</i> serovar typhimurium DT104 clone harboring the <i>Salmonella</i> genomic island 1. <i>Archives of Microbiology</i> , 2007, 187, 415-424.	1.0	28
38	Gut microbiota composition before infection determines the <i>Salmonella</i> super- and low-shedder phenotypes in chicken. <i>Microbial Biotechnology</i> , 2020, 13, 1611-1630.	2.0	28
39	The distribution of antibiotic resistance genes in chicken gut microbiota commensals. <i>Scientific Reports</i> , 2021, 11, 3290.	1.6	28
40	Rapid detection of <i>Salmonella</i> in field samples by nested polymerase chain reaction. <i>Letters in Applied Microbiology</i> , 1999, 29, 269-272.	1.0	27
41	Identification of <i>Salmonella enterica</i> serovar Typhimurium genes associated with growth suppression in stationary-phase nutrient broth cultures and in the chicken intestine. <i>Archives of Microbiology</i> , 2002, 178, 411-420.	1.0	27
42	Influence of 5 major <i>Salmonella</i> pathogenicity islands on NK cell depletion in mice infected with <i>Salmonella enterica</i> serovar Enteritidis. <i>BMC Microbiology</i> , 2010, 10, 75.	1.3	27
43	Low-Molecular-Weight Plasmid of <i>Salmonella enterica</i> Serovar Enteritidis Codes for Retron Reverse Transcriptase and Influences Phage Resistance. <i>Journal of Bacteriology</i> , 2001, 183, 2852-2858.	1.0	24
44	Role of SdiA in <i>Salmonella enterica</i> serovar Typhimurium physiology and virulence. <i>Archives of Microbiology</i> , 2002, 178, 94-101.	1.0	23
45	Epidemiology and interaction of <i>Salmonella enterica</i> serovar Derby, Infantis and Typhimurium with porcine alveolar macrophages. <i>Veterinary Microbiology</i> , 2010, 146, 105-110.	0.8	23
46	Impact of maternally-derived antibodies against <i>Salmonella enterica</i> serovar Typhimurium on the bacterial load in suckling piglets. <i>Veterinary Journal</i> , 2013, 196, 114-115.	0.6	22
47	SPI1 defective mutants of <i>Salmonella enterica</i> induce cross-protective immunity in chickens against challenge with serovars Typhimurium and Enteritidis. <i>Vaccine</i> , 2013, 31, 3156-3162.	1.7	22
48	The influence of age on <i>Campylobacter jejuni</i> infection in chicken. <i>Developmental and Comparative Immunology</i> , 2016, 62, 58-71.	1.0	21
49	Immune protection of chickens conferred by a vaccine consisting of attenuated strains of <i>Salmonella</i> Enteritidis, Typhimurium and Infantis. <i>Veterinary Research</i> , 2016, 47, 94.	1.1	21
50	Different <i>Bacteroides</i> Species Colonise Human and Chicken Intestinal Tract. <i>Microorganisms</i> , 2020, 8, 1483.	1.6	21
51	Cytokine Signaling in Splenic Leukocytes from Vaccinated and Non-Vaccinated Chickens after Intravenous Infection with <i>Salmonella</i> Enteritidis. <i>PLoS ONE</i> , 2012, 7, e32346.	1.1	19
52	The response of porcine monocyte derived macrophages and dendritic cells to <i>Salmonella</i> Typhimurium and lipopolysaccharide. <i>BMC Veterinary Research</i> , 2014, 10, 244.	0.7	19
53	Gene Expression Profiles of Chicken Embryo Fibroblasts in Response to <i>Salmonella</i> Enteritidis Infection. <i>PLoS ONE</i> , 2015, 10, e0127708.	1.1	18
54	Infectious bursal disease virus infection leads to changes in the gut associated-lymphoid tissue and the microbiota composition. <i>PLoS ONE</i> , 2018, 13, e0192066.	1.1	18

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55	Growth and colonization suppression of <i>Salmonella enterica</i> serovar Hadar in vitro and in vivo. <i>FEMS Microbiology Letters</i> , 2003, 218, 127-133.	0.7	17
56	Gene expression in the chicken caecum is dependent on microbiota composition. <i>Veterinary Research</i> , 2017, 48, 85.	1.1	17
57	Environmental Impact on Differential Composition of Gut Microbiota in Indoor Chickens in Commercial Production and Outdoor, Backyard Chickens. <i>Microorganisms</i> , 2020, 8, 767.	1.6	17
58	<i>Salmonella enterica</i> serovar Typhimurium typing by prophage-specific PCR. <i>Microbiology (United Kingdom)</i> , 2010, 150, 107-116.	0.7	16
59	Subdivision of <i>Salmonella enterica</i> serovar enteritidis phage types PT14b and PT21 by plasmid profiling. <i>Veterinary Microbiology</i> , 2000, 74, 217-225.	0.8	15
60	Flow cytometry characterisation of <i>Salmonella typhimurium</i> mutants defective in proton translocating proteins and stationary-phase growth phenotype. <i>Journal of Microbiological Methods</i> , 2000, 42, 255-263.	0.7	15
61	Immune response of pigs to <i>Salmonella enterica</i> serovar Derby and Typhimurium infections. <i>Veterinary Microbiology</i> , 2014, 170, 284-290.	0.8	14
62	Different roles of CD4, CD8 and T _H 1 lymphocytes in naive and vaccinated chickens during <i>Salmonella</i> Enteritidis infection. <i>Proteomics</i> , 2017, 17, 1700073.	1.3	14
63	Ordered expression of virulence genes in <i>Salmonella enterica</i> serovar typhimurium. <i>Folia Microbiologica</i> , 2007, 52, 107-114.	1.1	13
64	Distribution of integrons and SGI1 among antibiotic-resistant <i>Salmonella enterica</i> isolates of animal origin. <i>Veterinary Microbiology</i> , 2009, 133, 193-198.	0.8	12
65	Genes responsible for anaerobic fumarate and arginine metabolism are involved in growth suppression in <i>Salmonella enterica</i> serovar Typhimurium in vitro, without influencing colonisation inhibition in the chicken in vivo. <i>Veterinary Microbiology</i> , 2003, 97, 191-199.	0.8	11
66	Retron reverse transcriptase (<i>rrtT</i>) can be lost in multidrug resistant serovar Typhimurium DT 104 strains and influences virulence for mice. <i>Veterinary Microbiology</i> , 2005, 111, 191-197.	0.8	11
67	Vaccination of Chickens with SPI1- <i>lon</i> and SPI1- <i>lon</i> - <i>fliC</i> Mutant of <i>Salmonella enterica</i> Serovar Enteritidis. <i>PLoS ONE</i> , 2013, 8, e66172.	1.1	11
68	Ecological Adaptations of Gut Microbiota Members and Their Consequences for Use as a New Generation of Probiotics. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5471.	1.8	11
69	Probiotic Lactobacilli Do Not Protect Chickens against <i>Salmonella</i> Enteritidis Infection by Competitive Exclusion in the Intestinal Tract but in Feed, Outside the Chicken Host. <i>Microorganisms</i> , 2022, 10, 219.	1.6	11
70	Retron reverse transcriptase <i>rrtT</i> is ubiquitous in strains of <i>Salmonella enterica</i> serovar Typhimurium. <i>FEMS Microbiology Letters</i> , 2003, 223, 281-286.	0.7	10
71	Influence of the lipopolysaccharide structure of <i>Salmonella enterica</i> serovar Enteritidis on interactions with pig neutrophils. <i>Veterinary Microbiology</i> , 2011, 150, 167-172.	0.8	10
72	LPS structure influences protein secretion in <i>Salmonella enterica</i> . <i>Veterinary Microbiology</i> , 2011, 152, 131-137.	0.8	10

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73	The Early Innate Response of Chickens to <i>Salmonella enterica</i> Is Dependent on the Presence of O-Antigen but Not on Serovar Classification. <i>PLoS ONE</i> , 2014, 9, e96116.	1.1	9
74	Eggshell and Feed Microbiota Do Not Represent Major Sources of Gut Anaerobes for Chickens in Commercial Production. <i>Microorganisms</i> , 2021, 9, 1480.	1.6	9
75	Computer-assisted restriction endonuclease analysis of plasmid DNA in field strains of <i>Salmonella enteritidis</i> . <i>Canadian Journal of Microbiology</i> , 1998, 44, 1183-1185.	0.8	8
76	Impact of the Lipopolysaccharide Chemotype of <i>Salmonella Enterica</i> Serovar Typhimurium on Virulence in Gnotobiotic Piglets. <i>Toxins</i> , 2019, 11, 534.	1.5	8
77	Toll-Like Receptor 4 Signaling in the Ileum and Colon of Gnotobiotic Piglets Infected with <i>Salmonella Typhimurium</i> or Its Isogenic Δ trfA Mutants. <i>Toxins</i> , 2020, 12, 545.	1.5	8
78	Interleukin 4 inducible 1 gene (IL4I1) is induced in chicken phagocytes by <i>Salmonella Enteritidis</i> infection. <i>Veterinary Research</i> , 2020, 51, 67.	1.1	8
79	Protein expression in the liver and blood serum in chickens in response to <i>Salmonella Enteritidis</i> infection. <i>Veterinary Immunology and Immunopathology</i> , 2018, 205, 10-16.	0.5	7
80	Typhlitis induced by <i>Histomonas meleagridis</i> affects relative but not the absolute <i>Escherichia coli</i> counts and invasion in the gut in turkeys. <i>Veterinary Research</i> , 2021, 52, 92.	1.1	7
81	allB, allantoin utilisation and <i>Salmonella enterica</i> serovar <i>Enteritidis</i> and <i>Typhimurium</i> colonisation of poultry and mice. <i>Folia Microbiologica</i> , 2011, 56, 264-269.	1.1	6
82	phoP, SPI1, SPI2 and aroA mutants of <i>Salmonella Enteritidis</i> induce a different immune response in chickens. <i>Veterinary Research</i> , 2015, 46, 96.	1.1	6
83	Association of attenuated mutants of <i>Salmonella enterica</i> serovar <i>Enteritidis</i> with porcine peripheral blood leukocytes. <i>FEMS Microbiology Letters</i> , 2011, 321, 37-42.	0.7	4
84	Retron Se72 utilizes a unique strategy of the self-priming initiation of reverse transcription. <i>Cellular and Molecular Life Sciences</i> , 2011, 68, 3607-3617.	2.4	4
85	Computer-assisted restriction endonuclease analysis of plasmid DNA in field strains of <i>Salmonella enteritidis</i> . <i>Canadian Journal of Microbiology</i> , 1998, 44, 1183-5.	0.8	4
86	Computer-assisted restriction endonuclease analysis of plasmid DNA in field strains of <i>Salmonella enteritidis</i> . <i>Canadian Journal of Microbiology</i> , 1998, 44, 1183-1185.	0.8	3
87	Host Species Adaptation of Obligate Gut Anaerobes Is Dependent on Their Environmental Survival. <i>Microorganisms</i> , 2022, 10, 1085.	1.6	3
88	Impact of fliD and virulence plasmid pSEV on response of chicken embryo fibroblasts to <i>Salmonella Enteritidis</i> . <i>Veterinary Immunology and Immunopathology</i> , 2018, 196, 1-4.	0.5	2
89	Monitoring microbiota in chickens and pigs. , 2021, , 247-254.		2
90	<i>Paraphocaeicola brunensis</i> gen. nov., sp. nov., Carrying Two Variants of <i>nimB</i> Resistance Gene from <i>Bacteroides fragilis</i> , and <i>Caecibacteroides pullorum</i> gen. nov., sp. nov., Two Novel Genera Isolated from Chicken Caeca. <i>Microbiology Spectrum</i> , 2022, 10, e0195421.	1.2	2

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91	Detoxification, Hydrogen Sulphide Metabolism and Wound Healing Are the Main Functions That Differentiate Caecum Protein Expression from Ileum of Week-Old Chicken. <i>Animals</i> , 2021, 11, 3155.	1.0	1
92	High resolution parallel sequencing reveals multistrain <i>Campylobacter</i> in broiler chicken flocks testing "negative" by conventional culture methods: implications for control of <i>Campylobacter</i> infection. <i>Poultry Science</i> , 2022, 101, 102048.	1.5	0
93	Morphology, microbiota, and metabolome along the intestinal tract of female turkeys. <i>Poultry Science</i> , 2022, 101, 102046.	1.5	0