Ivan Rychlik

List of Publications by Year
in descending order

93	3,762	147566 31	143772 57
papers	citations	h-index	g-index

94	94	94	3667
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Probiotic Lactobacilli Do Not Protect Chickens against Salmonella Enteritidis Infection by Competitive Exclusion in the Intestinal Tract but in Feed, Outside the Chicken Host. Microorganisms, 2022, 10, 219.	1.6	11
2	<i>Paraphocaeicola brunensis</i> gen. nov., sp. nov., Carrying Two Variants of <i>nimB</i> Resistance Gene from Bacteroides fragilis, and <i>Caecibacteroides pullorum</i> gen. nov., sp. nov., Two Novel Genera Isolated from Chicken Caeca. Microbiology Spectrum, 2022, 10, e0195421.	1.2	2
3	Host Species Adaptation of Obligate Gut Anaerobes Is Dependent on Their Environmental Survival. Microorganisms, 2022, 10, 1085.	1.6	3
4	High resolution parallel sequencing reveals multistrain Campylobacter in broiler chicken flocks testing â€˜negativeâ€™ by conventional culture methods: implications for control of Campylobacter infection. Poultry Science, 2022, 101, 102048.	1.5	0
5	Morphology, microbiota, and metabolome along the intestinal tract of female turkeys. Poultry Science, 2022, 101, 102046.	1.5	0
6	Monitoring microbiota in chickens and pigs. , 2021, , 247-254.		2
7	The distribution of antibiotic resistance genes in chicken gut microbiota commensals. Scientific Reports, 2021, 11, 3290.	1.6	28
8	Development of piglet gut microbiota at the time of weaning influences development of postweaning diarrhea â€“ A field study. Research in Veterinary Science, 2021, 135, 59-65.	0.9	45
9	Ecological Adaptations of Gut Microbiota Members and Their Consequences for Use as a New Generation of Probiotics. International Journal of Molecular Sciences, 2021, 22, 5471.	1.8	11
10	Typhlitis induced by Histomonas meleagridis affects relative but not the absolute Escherichia coli counts and invasion in the gut in turkeys. Veterinary Research, 2021, 52, 92.	1.1	7
11	Eggshell and Feed Microbiota Do Not Represent Major Sources of Gut Anaerobes for Chickens in Commercial Production. Microorganisms, 2021, 9, 1480.	1.6	9
12	Detoxification, Hydrogen Sulphide Metabolism and Wound Healing Are the Main Functions That Differentiate Caecum Protein Expression from Ileum of Week-Old Chicken. Animals, 2021, 11, 3155.	1.0	1
13	Different Bacteroides Species Colonise Human and Chicken Intestinal Tract. Microorganisms, 2020, 8, 1483.	1.6	21
14	Toll-Like Receptor 4 Signaling in the Ileum and Colon of Gnotobiotic Piglets Infected with Salmonella Typhimurium or Its Isogenic â^†rfa Mutants. Toxins, 2020, 12, 545.	1.5	8
15	Interleukin 4 inducible 1 gene (IL4I1) is induced in chicken phagocytes by Salmonella Enteritidis infection. Veterinary Research, 2020, 51, 67.	1.1	8
16	Gut microbiota composition before infection determines the <i>Salmonella</i> superâ€•and lowâ€shedder phenotypes in chicken. Microbial Biotechnology, 2020, 13, 1611-1630.	2.0	28
17	Composition and Function of Chicken Gut Microbiota. Animals, 2020, 10, 103.	1.0	200
18	Environmental Impact on Differential Composition of Gut Microbiota in Indoor Chickens in Commercial Production and Outdoor, Backyard Chickens. Microorganisms, 2020, 8, 767.	1.6	17

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19	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. Microorganisms, 2019, 7, 496.	1.6	29
20	Influence of the microbiota-gut-brain axis on behavior and welfare in farm animals: A review. Physiology and Behavior, 2019, 210, 112658.	1.0	78
21	Impact of the Lipopolysaccharide Chemotype of Salmonella Enterica Serovar Typhimurium on Virulence in Gnotobiotic Piglets. Toxins, 2019, 11, 534.	1.5	8
22	Contact with adult hen affects development of caecal microbiota in newly hatched chicks. PLoS ONE, 2019, 14, e0212446.	1.1	87
23	Gut Anaerobes Capable of Chicken Caecum Colonisation. Microorganisms, 2019, 7, 597.	1.6	35
24	Use of 16S rRNA gene sequencing for prediction of new opportunistic pathogens in chicken ileal and cecal microbiota. Poultry Science, 2019, 98, 2347-2353.	1.5	44
25	Impact of fliD and virulence plasmid pSEV on response of chicken embryo fibroblasts to Salmonella Enteritidis. Veterinary Immunology and Immunopathology, 2018, 196, 1-4.	0.5	2
26	Protein expression in the liver and blood serum in chickens in response to Salmonella Enteritidis infection. Veterinary Immunology and Immunopathology, 2018, 205, 10-16.	0.5	7
27	Does selection for growth rate in broilers affect their resistance and tolerance to Eimeria maxima?. Veterinary Parasitology, 2018, 258, 88-98.	0.7	37
28	Whole genome sequencing and function prediction of 133 gut anaerobes isolated from chicken caecum in pure cultures. BMC Genomics, 2018, 19, 561.	1.2	108
29	Effects of host genetics and environmental conditions on fecal microbiota composition of pigs. PLoS ONE, 2018, 13, e0201901.	1.1	44
30	Infectious bursal disease virus infection leads to changes in the gut associated-lymphoid tissue and the microbiota composition. PLoS ONE, 2018, 13, e0192066.	1.1	18
31	Different roles of CD4, CD8 and Î³Î´ Tâ€•lymphocytes in naive and vaccinated chickens during <i>Salmonella</i> Enteritidis infection. Proteomics, 2017, 17, 1700073.	1.3	14
32	Influence of the Gut Microbiota Composition on Campylobacter jejuni Colonization in Chickens. Infection and Immunity, 2017, 85, .	1.0	66
33	Differential protein expression in chicken macrophages and heterophils in vivo following infection with Salmonella Enteritidis. Veterinary Research, 2017, 48, 35.	1.1	36
34	Gene expression in the chicken caecum is dependent on microbiota composition. Veterinary Research, 2017, 48, 85.	1.1	17
35	Housing Systems Influence Gut Microbiota Composition of Sows but Not of Their Piglets. PLoS ONE, 2017, 12, e0170051.	1.1	68
36	Composition of Gut Microbiota Influences Resistance of Newly Hatched Chickens to Salmonella Enteritidis Infection. Frontiers in Microbiology, 2016, 7, 957.	1.5	67

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37	The influence of age on Campylobacter jejuni infection in chicken. Developmental and Comparative Immunology, 2016, 62, 58-71.	1.0	21
38	Immune protection of chickens conferred by a vaccine consisting of attenuated strains of Salmonella Enteritidis, Typhimurium and Infantis. Veterinary Research, 2016, 47, 94.	1.1	21
39	Important Metabolic Pathways and Biological Processes Expressed by Chicken Cecal Microbiota. Applied and Environmental Microbiology, 2016, 82, 1569-1576.	1.4	281
40	Transient and Prolonged Response of Chicken Cecum Mucosa to Colonization with Different Gut Microbiota. PLoS ONE, 2016, 11, e0163932.	1.1	30
41	phoP, SPI1, SPI2 and aroA mutants of Salmonella Enteritidis induce a different immune response in chickens. Veterinary Research, 2015, 46, 96.	1.1	6
42	Gene Expression Profiles of Chicken Embryo Fibroblasts in Response to Salmonella Enteritidis Infection. PLoS ONE, 2015, 10, e0127708.	1.1	18
43	Curcuma and Scutellaria plant extracts protect chickens against inflammation and Salmonella Enteritidis infection. Poultry Science, 2015, 94, 2049-2058.	1.5	38
44	Characterization of Antibiotic Resistance Gene Abundance and Microbiota Composition in Feces of Organic and Conventional Pigs from Four EU Countries. PLoS ONE, 2015, 10, e0132892.	1.1	52
45	The Early Innate Response of Chickens to Salmonella enterica Is Dependent on the Presence of O-Antigen but Not on Serovar Classification. PLoS ONE, 2014, 9, e96116.	1.1	9
46	Characterization of Microbiota Composition and Presence of Selected Antibiotic Resistance Genes in Carriage Water of Ornamental Fish. PLoS ONE, 2014, 9, e103865.	1.1	37
47	Succession and Replacement of Bacterial Populations in the Caecum of Egg Laying Hens over Their Whole Life. PLoS ONE, 2014, 9, e115142.	1.1	151
48	Gene expression in the chicken caecum in response to infections with non-typhoid Salmonella. Veterinary Research, 2014, 45, 119.	1.1	92
49	The response of porcine monocyte derived macrophages and dendritic cells to SalmonellaTyphimurium and lipopolysaccharide. BMC Veterinary Research, 2014, 10, 244.	0.7	19
50	Immune response of pigs to Salmonella enterica serovar Derby and Typhimurium infections. Veterinary Microbiology, 2014, 170, 284-290.	0.8	14
51	Characterization of Egg Laying Hen and Broiler Fecal Microbiota in Poultry Farms in Croatia, Czech Republic, Hungary and Slovenia. PLoS ONE, 2014, 9, e110076.	1.1	70
52	Chicken innate immune response to oral infection with Salmonella enterica serovar Enteritidis. Veterinary Research, 2013, 44, 37.	1.1	95
53	Influence of Salmonella enterica serovar Enteritidis infection on the composition of chicken cecal microbiota. BMC Veterinary Research, 2013, 9, 140.	0.7	91
54	Chicken faecal microbiota and disturbances induced by single or repeated therapy with tetracycline and streptomycin. BMC Veterinary Research, 2013, 9, 30.	0.7	96

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55	Impact of maternally-derived antibodies against Salmonella enterica serovar Typhimurium on the bacterial load in suckling piglets. Veterinary Journal, 2013, 196, 114-115.	0.6	22
56	SPI1 defective mutants of Salmonella enterica induce cross-protective immunity in chickens against challenge with serovars Typhimurium and Enteritidis. Vaccine, 2013, 31, 3156-3162.	1.7	22
57	Vaccination of Chickens with SPI1-lon and SPI1-lon-fliC Mutant of Salmonella enterica Serovar Enteritidis. PLoS ONE, 2013, 8, e66172.	1.1	11
58	Vaccination of chickens with Salmonella Pathogenicity Island (SPI) 1 and SPI2 defective mutants of Salmonella enterica serovar Enteritidis. Vaccine, 2012, 30, 2090-2097.	1.7	33
59	SPI-1 encoded genes of Salmonella Typhimurium influence differential polarization of porcine alveolar macrophages in vitro. BMC Veterinary Research, 2012, 8, 115.	0.7	29
60	Cytokine Signaling in Splenic Leukocytes from Vaccinated and Non-Vaccinated Chickens after Intravenous Infection with Salmonella Enteritidis. PLoS ONE, 2012, 7, e32346.	1.1	19
61	Characterization of Chicken Spleen Transcriptome after Infection with Salmonella enterica Serovar Enteritidis. PLoS ONE, 2012, 7, e48101.	1.1	77
62	Association of attenuated mutants of Salmonella enterica serovar Enteritidis with porcine peripheral blood leukocytes. FEMS Microbiology Letters, 2011, 321, 37-42.	0.7	4
63	Influence of the lipopolysaccharide structure of Salmonella enterica serovar Enteritidis on interactions with pig neutrophils. Veterinary Microbiology, 2011, 150, 167-172.	0.8	10
64	LPS structure influences protein secretion in Salmonella enterica. Veterinary Microbiology, 2011, 152, 131-137.	0.8	10
65	SPI-1-encoded type III secretion system of Salmonella enterica is required for the suppression of porcine alveolar macrophage cytokine expression. Veterinary Research, 2011, 42, 16.	1.1	51
66	Retron Se72 utilizes a unique strategy of the self-priming initiation of reverse transcription. Cellular and Molecular Life Sciences, 2011, 68, 3607-3617.	2.4	4
67	allB, allantoin utilisation and Salmonella enterica serovar Enteritidis and Typhimurium colonisation of poultry and mice. Folia Microbiologica, 2011, 56, 264-269.	1.1	6
68	Immune Response of Chicken Gut to Natural Colonization by Gut Microflora and to Salmonella enterica Serovar Enteritidis Infection. Infection and Immunity, 2011, 79, 2755-2763.	1.0	265
69	Influence of 5 major Salmonella pathogenicity islands on NK cell depletion in mice infected with Salmonella enterica serovar Enteritidis. BMC Microbiology, 2010, 10, 75.	1.3	27
70	Epidemiology and interaction of Salmonella enterica serovar Derby, Infantis and Typhimurium with porcine alveolar macrophages. Veterinary Microbiology, 2010, 146, 105-110.	0.8	23
71	Virulence potential of five major pathogenicity islands (SPI-1 to SPI-5) of Salmonella enterica serovar Enteritidis for chickens. BMC Microbiology, 2009, 9, 268.	1.3	107
72	Distribution of integrons and SGI1 among antibiotic-resistant Salmonella enterica isolates of animal origin. Veterinary Microbiology, 2009, 133, 193-198.	0.8	12

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73	Comparative analysis of Salmonella enterica serovar Enteritidis mutants with a vaccine potential. Vaccine, 2009, 27, 5265-5270.	1.7	50
74	Biofilm formation in field strains of Salmonella enterica serovar Typhimurium: Identification of a new colony morphology type and the role of SGI1 in biofilm formation. Veterinary Microbiology, 2008, 129, 360-366.	0.8	55
75	Salmonella enterica serovar Typhimurium typing by prophage-specific PCR. Microbiology (United) Tj ETQq1 1 0.784314 rgBT /Overloc	0.7	16
76	aro Mutations in Salmonella enterica Cause Defects in Cell Wall and Outer Membrane Integrity. Journal of Bacteriology, 2008, 190, 3155-3160.	1.0	41
77	Ordered expression of virulence genes inSalmonella enterica serovar typhimurium. Folia Microbiologica, 2007, 52, 107-14.	1.1	13
78	Identification of putative ancestors of the multidrug-resistant Salmonella enterica serovar typhimurium DT104 clone harboring the Salmonella genomic island 1. Archives of Microbiology, 2007, 187, 415-424.	1.0	28
79	Distribution and function of plasmids in Salmonella enterica. Veterinary Microbiology, 2006, 112, 1-10.	0.8	159
80	Salmonellastress management and its relevance to behaviour during intestinal colonisation and infection. FEMS Microbiology Reviews, 2005, 29, 1021-1040.	3.9	166
81	Retron reverse transcriptase () can be lost in multidrug resistant serovar Typhimurium DT 104 strains and influences virulence for mice. Veterinary Microbiology, 2005, 111, 191-197.	0.8	11
82	Genes responsible for anaerobic fumarate and arginine metabolism are involved in growth suppression in Salmonella enterica serovar Typhimurium in vitro, without influencing colonisation inhibition in the chicken in vivo. Veterinary Microbiology, 2003, 97, 191-199.	0.8	11
83	Retron reverse transcriptase rrtT is ubiquitous in strains of Salmonella enterica serovar Typhimurium. FEMS Microbiology Letters, 2003, 223, 281-286.	0.7	10
84	Growth and colonization suppression ofSalmonella entericaserovar Hadar in vitro and in vivo. FEMS Microbiology Letters, 2003, 218, 127-133.	0.7	17
85	Role of SdiA in Salmonella enterica serovar Typhimurium physiology and virulence. Archives of Microbiology, 2002, 178, 94-101.	1.0	23
86	Identification of Salmonella enterica serovar Typhimurium genes associated with growth suppression in stationary-phase nutrient broth cultures and in the chicken intestine. Archives of Microbiology, 2002, 178, 411-420.	1.0	27
87	Low-Molecular-Weight Plasmid of Salmonella enterica Serovar Enteritidis Codes for Retron Reverse Transcriptase and Influences Phage Resistance. Journal of Bacteriology, 2001, 183, 2852-2858.	1.0	24
88	Subdivision of Salmonella enterica serovar enteritidis phage types PT14b and PT21 by plasmid profiling. Veterinary Microbiology, 2000, 74, 217-225.	0.8	15
89	Flow cytometry characterisation of Salmonella typhimurium mutants defective in proton translocating proteins and stationary-phase growth phenotype. Journal of Microbiological Methods, 2000, 42, 255-263.	0.7	15
90	Rapid detection of Salmonella in field samples by nested polymerase chain reaction. Letters in Applied Microbiology, 1999, 29, 269-272.	1.0	27

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91	Computer-assisted restriction endonuclease analysis of plasmid DNA in field strains of <i>Salmonella enteritidis</i>. Canadian Journal of Microbiology, 1998, 44, 1183-1185.	0.8	8
92	Computer-assisted restriction endonuclease analysis of plasmid DNA in field strains of <i>Salmonella enteritidis</i>. Canadian Journal of Microbiology, 1998, 44, 1183-1185.	0.8	3
93	Computer-assisted restriction endonuclease analysis of plasmid DNA in field strains of Salmonella enteritidis. Canadian Journal of Microbiology, 1998, 44, 1183-5.	0.8	4