Josep CasadesÃºs

List of Publications by Year
in descending order

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127	7,419	53794 45	64796 79
papers	citations	h-index	g-index

137	137	137	6879
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Epigenetic Gene Regulation in the Bacterial World. Microbiology and Molecular Biology Reviews, 2006, 70, 830-856.	6.6	539
2	N6-methyl-adenine: an epigenetic signal for DNAâ€“protein interactions. Nature Reviews Microbiology, 2006, 4, 183-192.	28.6	485
3	Host adapted serotypes of Salmonella enterica. Epidemiology and Infection, 2000, 125, 229-255.	2.1	377
4	Interactions between Bacteria and Bile Salts in the Gastrointestinal and Hepatobiliary Tracts. Frontiers in Medicine, 2017, 4, 163.	2.6	289
5	Roles of DNA adenine methylation in hostâ€“pathogen interactions: mismatch repair, transcriptional regulation, and more. FEMS Microbiology Reviews, 2009, 33, 488-503.	8.6	268
6	DNA methylation in bacteria: from the methyl group to the methylome. Current Opinion in Microbiology, 2015, 25, 9-16.	5.1	267
7	DNA adenine methylase mutants of Salmonella typhimurium show defects in protein secretion, cell invasion, and M cell cytotoxicity. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 11578-11583.	7.1	195
8	Programmed Heterogeneity: Epigenetic Mechanisms in Bacteria. Journal of Biological Chemistry, 2013, 288, 13929-13935.	3.4	193
9	Contribution of phenotypic heterogeneity to adaptive antibiotic resistance. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 355-360.	7.1	177
10	The bacterial epigenome. Nature Reviews Microbiology, 2020, 18, 7-20.	28.6	160
11	Salmonella enterica Serovar Typhimurium Response Involved in Attenuation of Pathogen Intracellular Proliferation. Infection and Immunity, 2001, 69, 6463-6474.	2.2	135
12	Underground metabolism. BioEssays, 1998, 20, 181-186.	2.5	126
13	Loss of Hfq activates the Ïƒ Eâ€dependent envelope stress response inSalmonella enterica. Molecular Microbiology, 2006, 62, 838-852.	2.5	121
14	Adaptation and Preadaptation of Salmonella enterica to Bile. PLoS Genetics, 2012, 8, e1002459.	3.5	118
15	Role for Salmonella enterica Enterobacterial Common Antigen in Bile Resistance and Virulence. Journal of Bacteriology, 2003, 185, 5328-5332.	2.2	111
16	DNA Adenine Methylation Regulates Virulence Gene Expression in Salmonella enterica Serovar Typhimurium. Journal of Bacteriology, 2006, 188, 8160-8168.	2.2	110
17	Clocks and switches: bacterial gene regulation by DNA adenine methylation. Current Opinion in Microbiology, 2008, 11, 106-112.	5.1	109
18	Regulation of Capsule Synthesis and Cell Motility in Salmonella enterica by the Essential Gene igaA. Genetics, 2002, 162, 1513-1523.	2.9	107

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19	Repair of DNA Damage Induced by Bile Salts in Salmonella enterica. Genetics, 2006, 174, 575-584.	2.9	105
20	Bile-Induced DNA Damage in Salmonella enterica. Genetics, 2004, 168, 1787-1794.	2.9	104
21	Memory in bacteria and phage. BioEssays, 2002, 24, 512-518.	2.5	103
22	Epigenetic Control of Salmonella enterica O-Antigen Chain Length: A Tradeoff between Virulence and Bacteriophage Resistance. PLoS Genetics, 2015, 11, e1005667.	3.5	88
23	Recognition of heptameric seed sequence underlies multiâ€target regulation by RybB small RNA in Salmonella enterica. Molecular Microbiology, 2010, 78, 380-394.	2.5	86
24	Repression of the RcsC-YojN-RcsB phosphorelay by the IgaA protein is a requisite for Salmonella virulence. Molecular Microbiology, 2004, 53, 1437-1449.	2.5	85
25	Small RNA-based feedforward loop with AND-gate logic regulates extrachromosomal DNA transfer in Salmonella. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4772-E4781.	7.1	83
26	Rough and fine linkage mapping of the Rhizobium meliloti chromosome. Molecular Genetics and Genomics, 1979, 174, 203-209.	2.4	81
27	Conjugal transfer of the virulence plasmid of Salmonella enterica is regulated by the leucine-responsive regulatory protein and DNA adenine methylation. Molecular Microbiology, 2002, 44, 1589-1598.	2.5	80
28	Changes of ploidy during the Azotobacter vinelandii growth cycle. Journal of Bacteriology, 1994, 176, 3911-3919.	2.2	79
29	Envelope instability in DNA adenine methylase mutants of Salmonella enterica. Microbiology (United) Tj ETQq1 1 0.784314 rgBT /Ove	1.8	76
30	Method for Testing Degree of Infectivity of Rhizobium meliloti Strains. Applied and Environmental Microbiology, 1980, 39, 967-970.	3.1	72
31	DNA Adenine Methylase Mutants of Salmonella typhimurium and a Novel Dam-Regulated Locus. Genetics, 1996, 144, 15-26.	2.9	69
32	LeuO is a global regulator of gene expression in Salmonella enterica serovar Typhimurium. Molecular Microbiology, 2012, 85, 1072-1089.	2.5	68
33	The role of flagella and chemotaxis genes in host pathogen interaction of the host adapted Salmonella enterica serovar Dublin compared to the broad host range serovar S. Typhimurium. BMC Microbiology, 2013, 13, 67.	3.3	68
34	Regulation oftraJtranscription in the Salmonella virulence plasmid by strand-specific DNA adenine hemimethylation. Molecular Microbiology, 2005, 57, 1700-1718.	2.5	67
35	An Altruistic Model of the Rhizobiumâ€“Legume Association. Journal of Heredity, 1989, 80, 335-337.	2.4	63
36	Regulation of the Salmonella enterica std Fimbrial Operon by DNA Adenine Methylation, SeqA, and HdfR. Journal of Bacteriology, 2008, 190, 7406-7413.	2.2	60

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37	Genome Expression Analysis of Nonproliferating Intracellular Salmonella enterica Serovar Typhimurium Unravels an Acid pH-Dependent PhoP-PhoQ Response Essential for Dormancy. Infection and Immunity, 2013, 81, 154-165.	2.2	58
38	Conjugal Transfer of the Salmonella enterica Virulence Plasmid in the Mouse Intestine. Journal of Bacteriology, 2008, 190, 1922-1927.	2.2	56
39	STM2209-STM2208 (opvAB): A Phase Variation Locus of Salmonella enterica Involved in Control of O-Antigen Chain Length. PLoS ONE, 2012, 7, e36863.	2.5	55
40	Rcs and PhoPQ Regulatory Overlap in the Control ofSalmonella entericaVirulence. Journal of Bacteriology, 2007, 189, 6635-6644.	2.2	54
41	Role of the RecBCD Recombination Pathway in Salmonella Virulence. Journal of Bacteriology, 2002, 184, 592-595.	2.2	53
42	Selection of Small-Colony Variants of Salmonella enterica Serovar Typhimurium in Nonphagocytic Eucaryotic Cells. Infection and Immunity, 2003, 71, 3690-3698.	2.2	53
43	Synthesis of FinP RNA by Plasmids F and pSLT Is Regulated by DNA Adenine Methylation. Genetics, 1999, 152, 31-45.	2.9	53
44	Bacterial DNA Methylation and Methylomes. Advances in Experimental Medicine and Biology, 2016, 945, 35-61.	1.6	51
45	A eukaryotic-like 3â€² untranslated region in Salmonella enterica hilD mRNA. Nucleic Acids Research, 2014, 42, 5894-5906.	14.5	50
46	Virulence attenuation in Salmonella enterica rcsC mutants with constitutive activation of the Rcs system. Microbiology (United Kingdom), 2005, 151, 579-588.	1.8	49
47	Std fimbriae-fucose interaction increases Salmonella-induced intestinal inflammation and prolongs colonization. PLoS Pathogens, 2019, 15, e1007915.	4.7	49
48	IS200: an old and still bacterial transposon. International Microbiology, 2004, 7, 3-12.	2.4	47
49	Use of mixed infections to study cell invasion and intracellular proliferation of Salmonella enterica in eukaryotic cell cultures. Journal of Microbiological Methods, 2004, 56, 83-91.	1.6	45
50	Regulation of finP Transcription by DNA Adenine Methylation in the Virulence Plasmid of Salmonella enterica. Journal of Bacteriology, 2005, 187, 5691-5699.	2.2	45
51	Absence of insertions among spontaneous mutants of Salmonella typhimurium. Molecular Genetics and Genomics, 1989, 216, 210-216.	2.4	44
52	The origin and evolution of human pathogens. Molecular Microbiology, 2005, 56, 1-7.	2.5	41
53	Pseudomonas syringae Differentiates into Phenotypically Distinct Subpopulations During Colonization of a Plant Host. Environmental Microbiology, 2016, 18, 3593-3605.	3.8	41
54	IS200is not a member of the IS600family of insertion sequences. Nucleic Acids Research, 1991, 19, 1343-1343.	14.5	40

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55	Bile-Induced Curing of the Virulence Plasmid in Salmonella enterica Serovar Typhimurium. Journal of Bacteriology, 2006, 188, 7963-7965.	2.2	39
56	Conserved structure of IS200 elements in Salmonella. Nucleic Acids Research, 1997, 25, 1355-1361.	14.5	38
57	Regulation ofSalmonella entericaPathogenicity Island 1 by DNA Adenine Methylation. Genetics, 2010, 184, 637-649.	2.9	38
58	OxyR-dependent formation of DNA methylation patterns in OpvAB^{OFF}and OpvAB^{ON}cell lineages ofSalmonella enterica. Nucleic Acids Research, 2016, 44, 3595-3609.	14.5	35
59	The UbiK protein is an accessory factor necessary for bacterial ubiquinone (UQ) biosynthesis and forms a complex with the UQ biogenesis factor UbiJ. Journal of Biological Chemistry, 2017, 292, 11937-11950.	3.4	35
60	Transcriptional occlusion of transposon targets. Molecular Genetics and Genomics, 1989, 216, 204-209.	2.4	34
61	Roles of the Outer Membrane Protein AsmA of Salmonella enterica in the Control of marRAB Expression and Invasion of Epithelial Cells. Journal of Bacteriology, 2009, 191, 3615-3622.	2.2	33
62	Identification of the Salmonella enterica damX Gene Product, an Inner Membrane Protein Involved in Bile Resistance. Journal of Bacteriology, 2010, 192, 893-895.	2.2	33
63	YhdJ, a Nonessential CcrM-Like DNA Methyltransferase of Escherichia coli and Salmonella enterica. Journal of Bacteriology, 2007, 189, 4325-4327.	2.2	32
64	Regulation of <scp>S</scp>almonella enterica pathogenicity island 1 (<scp>SPI</scp>â€1) by the <scp>LysR</scp>â€type regulator <scp>LeuO</scp>. Molecular Microbiology, 2014, 91, 1057-1069.	2.5	30
65	Contribution of SPI-1 bistability to Salmonella enterica cooperative virulence: insights from single cell analysis. Scientific Reports, 2018, 8, 14875.	3.3	30
66	Strain typing with IS200 fingerprints in Salmonella abortusovis. Applied and Environmental Microbiology, 1996, 62, 2375-2380.	3.1	30
67	Regulation of Bacterial Conjugation in Microaerobiosis by Host-Encoded Functions ArcAB and SdhABCD. Genetics, 2010, 184, 947-958.	2.9	29
68	Bileâ€induced peptidoglycan remodelling in <scp>S</scp>almonella enterica. Environmental Microbiology, 2015, 17, 1081-1089.	3.8	29
69	The GATC-Binding Protein SeqA Is Required for Bile Resistance and Virulence in Salmonella enterica Serovar Typhimurium. Journal of Bacteriology, 2007, 189, 8496-8502.	2.2	28
70	Intestinal and chronic infections: Salmonella lifestyles in hostile environments. Environmental Microbiology Reports, 2011, 3, 508-517.	2.4	28
71	Dormant Intracellular Salmonella enterica Serovar Typhimurium Discriminates among Salmonella Pathogenicity Island 2 Effectors To Persist inside Fibroblasts. Infection and Immunity, 2014, 82, 221-232.	2.2	27
72	Detection of salmonellas by DNA hybridization with a fluorescent alkaline phosphatase substrate. Journal of Applied Bacteriology, 1992, 72, 393-399.	1.1	26

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73	Virulence plasmid interchange between strains ATCC 14028, LT2, and SL1344 of Salmonella enterica serovar Typhimurium. Plasmid, 2011, 65, 169-175.	1.4	24
74	Crosstalk between Virulence Loci: Regulation of Salmonella enterica Pathogenicity Island 1 (SPI-1) by Products of the std Fimbrial Operon. PLoS ONE, 2012, 7, e30499.	2.5	24
75	Virulence Gene Regulation by l-Arabinose in Salmonella enterica. Genetics, 2015, 200, 807-819.	2.9	24
76	Tn 10 mutagenesis in Azotobacter vinelandii. Molecular Genetics and Genomics, 1987, 209, 276-282.	2.4	23
77	Compositional heterogeneity of the Escherichia coli genome: A role for VSP repair?. Journal of Molecular Evolution, 1994, 39, 340-346.	1.8	23
78	General transduction in Rhizobium meliloti by a thermosensitive mutant of bacteriophage DF2. Journal of Bacteriology, 1979, 139, 316-317.	2.2	23
79	Insertion Hot Spot for Horizontally Acquired DNA within a Bidirectional Small-RNA Locus inSalmonella enterica. Journal of Bacteriology, 2008, 190, 4075-4078.	2.2	22
80	Regulation of bistability in the std fimbrial operon of Salmonella enterica by DNA adenine methylation and transcription factors HdfR, StdE and StdF. Nucleic Acids Research, 2019, 47, 7929-7941.	14.5	21
81	Contribution of DNA adenine methylation to gene expression heterogeneity inSalmonella enterica. Nucleic Acids Research, 2020, 48, 11857-11867.	14.5	21
82	Suppression of the pleiotropic effects of HisH and HisF overproduction identifies four novel loci on the Salmonella typhimurium chromosome: osmH, sfiW, sfiX, and sfiY. Journal of Bacteriology, 1995, 177, 4841-4850.	2.2	20
83	Repression of IS200 transposase synthesis by RNA secondary structures. Nucleic Acids Research, 1999, 27, 3690-3695.	14.5	20
84	Adaptation of Salmonella enterica to bile: essential role of AcrABâ€mediated efflux. Environmental Microbiology, 2018, 20, 1405-1418.	3.8	20
85	Bistability and phase variation in Salmonella enterica. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2019, 1862, 752-758.	1.9	19
86	recB recJ mutants ofSalmonella typhimurium are deficient in transductional recombination, DNA repair and plasmid maintenance. Molecular Genetics and Genomics, 1996, 250, 570-580.	2.4	18
87	Redox controls RecA protein activity via reversible oxidation of its methionine residues. ELife, 2021, 10, .	6.0	18
88	Formation of phenotypic lineages in Salmonella enterica by a pleiotropic fimbrial switch. PLoS Genetics, 2018, 14, e1007677.	3.5	17
89	The Salmonella typbimurium RecJ function permits growth of P22 abc phage on recBCD + hosts. Molecular Genetics and Genomics, 1992, 232, 470-478.	2.4	15
90	The sfiX, rfe and metN genes of Salmonella typhimurium and their involvement in the Hisc pleiotropic response. Molecular Genetics and Genomics, 1998, 259, 46-53.	2.4	15

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91	A portable epigenetic switch for bistable gene expression in bacteria. Scientific Reports, 2019, 9, 11261.	3.3	15
92	Waddingtonâ€™s Landscapes in the Bacterial World. Frontiers in Microbiology, 2021, 12, 685080.	3.5	15
93	Pervasive transcription enhances the accessibility of H-NSâ€“silenced promoters and generates bistability in Salmonella virulence gene expression. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	15
94	Transposition of Tn 1 to the Rhizobium meliloti genome. Molecular Genetics and Genomics, 1980, 180, 405-410.	2.4	14
95	Cell Division Inhibition in Salmonella typhimurium Histidine-Constitutive Strains: an ftsI -Like Defect in the Presence of Wild-Type Penicillin-Binding Protein 3 Levels. Journal of Bacteriology, 1998, 180, 5231-5234.	2.2	14
96	Regulation of conjugal transfer by Lrp and Dam methylation in plasmid R100. International Microbiology, 2005, 8, 279-85.	2.4	14
97	Single Cell Analysis of Bistable Expression of Pathogenicity Island 1 and the Flagellar Regulon in Salmonella enterica. Microorganisms, 2021, 9, 210.	3.6	13
98	sulA-independent division inhibition in his-constitutive strains of Salmonella typhimurium. FEMS Microbiology Letters, 1990, 69, 205-210.	1.8	13
99	Tn5 mutagenesis and insertion replacement in Azotobacter vinelandii. Plasmid, 1991, 25, 76-80.	1.4	12
100	Bacterial L-forms require peptidoglycan synthesis for cell division. BioEssays, 2007, 29, 1189-1191.	2.5	12
101	The pleiotropic effects of his overexpression in Salmonella typhimurium do not involve AICAR-induced mutagenesis. Molecular Genetics and Genomics, 1993, 240, 360-364.	2.4	11
102	The importance of motility and chemotaxis for extra-animal survival of Salmonella enterica serovar Typhimurium and Dublin. Journal of Applied Microbiology, 2012, 113, 560-568.	3.1	11
103	Mutational and non mutational adaptation of Salmonella enterica to the gall bladder. Scientific Reports, 2019, 9, 5203.	3.3	11
104	Genetic Mapping by Duplication Segregation in Salmonella enterica. Genetics, 2001, 157, 491-502.	2.9	11
105	The DamX protein ofEscherichia coliandSalmonella enterica. Gut Microbes, 2010, 1, 285-288.	9.8	10
106	Genome-Wide Identification and Expression Analysis of SOS Response Genes in Salmonella enterica Serovar Typhimurium. Cells, 2021, 10, 943.	4.1	9
107	Increased bile resistance in Salmonella enterica mutants lacking Prc periplasmic protease. International Microbiology, 2013, 16, 87-92.	2.4	9
108	Regulation ofigaAand the Rcs System by the MviA Response Regulator inSalmonella enterica. Journal of Bacteriology, 2009, 191, 2743-2752.	2.2	8

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109	Copy Number Heterogeneity in the Virulence Plasmid of Salmonella enterica. Frontiers in Microbiology, 2020, 11, 599931.	3.5	8
110	Host RecJ is required for growth of P22 erf bacteriophage. Journal of Bacteriology, 1993, 175, 288-290.	2.2	7
111	Intestinal invasion of Salmonella enterica serovar Typhimurium in the avian host is dose dependent and does not depend on motility and chemotaxis. Veterinary Microbiology, 2013, 165, 373-377.	1.9	7
112	Epigenetic biosensors for bacteriophage detection and phage receptor discrimination. Environmental Microbiology, 2020, 22, 3126-3142.	3.8	7
113	Lack of hotspot targets: a constraint for IS30 transposition in Salmonella. Gene, 1999, 238, 231-239.	2.2	5
114	Regulation of septation: a novel role for SerC/PdxF in Salmonella?. Molecular Genetics and Genomics, 2000, 264, 184-192.	2.4	4
115	Construction of genetically defined aroA mutant of a native E. coli O78:K80 isolated from avian colibacillosis, in Iran. Comparative Clinical Pathology, 2009, 18, 69-75.	0.7	3
116	A possible relationship between vsp mismatch repair and gene expression level. Journal of Molecular Evolution, 1996, 43, 161-163.	1.8	2
117	recB recJ. Molecular Genetics and Genomics, 1996, 250, 570.	2.4	2
118	Cloning with Mud-P22 hybrid prophages: mapping of IS200 elements on the chromosome of Salmonella typhimurium LT2. Molecular Genetics and Genomics, 1997, 256, 586-588.	2.4	1
119	The P22 Erf protein and host RecA provide alternative functions for transductional segregation of plasmid-borne duplications. Molecular Genetics and Genomics, 1998, 259, 39-45.	2.4	1
120	Formation of Bacterial Lineages in Salmonella enterica by Epigenetic Mechanisms. Epigenetics and Human Health, 2016, , 1-17.	0.2	1
121	Microbial DNA metabolism, genome dynamics and human disease. FEMS Microbiology Reviews, 2009, 33, 451-452.	8.6	0
122	Regulation at multiple levels: themes and variations. Current Opinion in Microbiology, 2011, 14, 115-117.	5.1	0
123	Evidence for Involvement of the Salmonella enterica Z-Ring Assembly Factors ZapA and ZapB in Resistance to Bile. Frontiers in Microbiology, 2021, 12, 647305.	3.5	0
124	Genetic Mapping in Salmonella enterica. , 2003, , 10-21.		0
125	Of Bacteria and Bile. , 0, , 153-162.		0
126	Covert Operations: the Adaptable Plan of Attack Deployed by Pathogenic Bacteria. , 0, , 185-200.		0

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127	Transcriptional regulation of the Salmonella enterica std fimbrial operon by the RcsCDB system. Microbiology (United Kingdom), 2019, 165, 1245-1250.	1.8	0