

# Josep Casadess

## 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.

124 papers	5,618 citations	43 h-index	72 g-index
137 ext. papers	6,718 ext. citations	6 avg, IF	6.14 L-index

#	Paper	IF	Citations
124	Epigenetic gene regulation in the bacterial world. <i>Microbiology and Molecular Biology Reviews</i> , <b>2006</b> , 70, 830-56	13.2	394
123	N6-methyl-adenine: an epigenetic signal for DNA-protein interactions. <i>Nature Reviews Microbiology</i> , <b>2006</b> , 4, 183-92	22.2	374
122	Host adapted serotypes of Salmonella enterica. <i>Epidemiology and Infection</i> , <b>2000</b> , 125, 229-55	4.3	304
121	Roles of DNA adenine methylation in host-pathogen interactions: mismatch repair, transcriptional regulation, and more. <i>FEMS Microbiology Reviews</i> , <b>2009</b> , 33, 488-503	15.1	216
120	DNA adenine methylase mutants of Salmonella typhimurium show defects in protein secretion, cell invasion, and M cell cytotoxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1999</b> , 96, 11578-83	11.5	177
119	DNA methylation in bacteria: from the methyl group to the methylome. <i>Current Opinion in Microbiology</i> , <b>2015</b> , 25, 9-16	7.9	168
118	Programmed heterogeneity: epigenetic mechanisms in bacteria. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 13929-13935	5.4	157
117	Interactions between Bacteria and Bile Salts in the Gastrointestinal and Hepatobiliary Tracts. <i>Frontiers in Medicine</i> , <b>2017</b> , 4, 163	4.9	143
116	Contribution of phenotypic heterogeneity to adaptive antibiotic resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 355-60	11.5	127
115	Loss of Hfq activates the sigmaE-dependent envelope stress response in Salmonella enterica. <i>Molecular Microbiology</i> , <b>2006</b> , 62, 838-52	4.1	115
114	Underground metabolism. <i>BioEssays</i> , <b>1998</b> , 20, 181-6	4.1	106
113	Salmonella enterica serovar Typhimurium response involved in attenuation of pathogen intracellular proliferation. <i>Infection and Immunity</i> , <b>2001</b> , 69, 6463-74	3.7	102
112	Regulation of capsule synthesis and cell motility in Salmonella enterica by the essential gene igaA. <i>Genetics</i> , <b>2002</b> , 162, 1513-23	4	94
111	Clocks and switches: bacterial gene regulation by DNA adenine methylation. <i>Current Opinion in Microbiology</i> , <b>2008</b> , 11, 106-12	7.9	89
110	Adaptation and preadaptation of Salmonella enterica to Bile. <i>PLoS Genetics</i> , <b>2012</b> , 8, e1002459	6	87
109	Repair of DNA damage induced by bile salts in Salmonella enterica. <i>Genetics</i> , <b>2006</b> , 174, 575-84	4	86
108	DNA adenine methylation regulates virulence gene expression in Salmonella enterica serovar Typhimurium. <i>Journal of Bacteriology</i> , <b>2006</b> , 188, 8160-8	3.5	85

107	Bile-induced DNA damage in Salmonella enterica. <i>Genetics</i> , <b>2004</b> , 168, 1787-94	4	85
106	Role for Salmonella enterica enterobacterial common antigen in bile resistance and virulence. <i>Journal of Bacteriology</i> , <b>2003</b> , 185, 5328-32	3.5	85
105	Memory in bacteria and phage. <i>BioEssays</i> , <b>2002</b> , 24, 512-8	4.1	80
104	Repression of the RcsC-YojN-RcsB phosphorelay by the IgaA protein is a requisite for Salmonella virulence. <i>Molecular Microbiology</i> , <b>2004</b> , 53, 1437-49	4.1	77
103	Conjugal transfer of the virulence plasmid of Salmonella enterica is regulated by the leucine-responsive regulatory protein and DNA adenine methylation. <i>Molecular Microbiology</i> , <b>2002</b> , 44, 1589-98	4.1	74
102	Recognition of heptameric seed sequence underlies multi-target regulation by RybB small RNA in Salmonella enterica. <i>Molecular Microbiology</i> , <b>2010</b> , 78, 380-94	4.1	73
101	Changes of ploidy during the Azotobacter vinelandii growth cycle. <i>Journal of Bacteriology</i> , <b>1994</b> , 176, 3911-9	3.5	72
100	Envelope instability in DNA adenine methylase mutants of Salmonella enterica. <i>Microbiology (United Kingdom)</i> , <b>2002</b> , 148, 1171-1182	2.9	71
99	Small RNA-based feedforward loop with AND-gate logic regulates extrachromosomal DNA transfer in Salmonella. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E4772-81	11.5	70
98	The bacterial epigenome. <i>Nature Reviews Microbiology</i> , <b>2020</b> , 18, 7-20	22.2	68
97	Rough and fine linkage mapping of the Rhizobium meliloti chromosome. <i>Molecular Genetics and Genomics</i> , <b>1979</b> , 174, 203-9		66
96	Regulation of traJ transcription in the Salmonella virulence plasmid by strand-specific DNA adenine hemimethylation. <i>Molecular Microbiology</i> , <b>2005</b> , 57, 1700-18	4.1	62
95	An Altruistic Model of the Rhizobium-Legume Association. <i>Journal of Heredity</i> , <b>1989</b> , 80, 335-337	2.4	61
94	Epigenetic Control of Salmonella enterica O-Antigen Chain Length: A Tradeoff between Virulence and Bacteriophage Resistance. <i>PLoS Genetics</i> , <b>2015</b> , 11, e1005667	6	60
93	Method for Testing Degree of Infectivity of Rhizobium meliloti Strains. <i>Applied and Environmental Microbiology</i> , <b>1980</b> , 39, 967-70	4.8	58
92	DNA adenine methylase mutants of Salmonella typhimurium and a novel dam-regulated locus. <i>Genetics</i> , <b>1996</b> , 144, 15-26	4	55
91	LeuO is a global regulator of gene expression in Salmonella enterica serovar Typhimurium. <i>Molecular Microbiology</i> , <b>2012</b> , 85, 1072-89	4.1	52
90	Rcs and PhoPQ regulatory overlap in the control of Salmonella enterica virulence. <i>Journal of Bacteriology</i> , <b>2007</b> , 189, 6635-44	3.5	49

89	Synthesis of FinP RNA by plasmids F and pSLT is regulated by DNA adenine methylation. <i>Genetics</i> , <b>1999</b> , 152, 31-45	4	48
88	Regulation of the Salmonella enterica std fimbrial operon by DNA adenine methylation, SeqA, and HdfR. <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 7406-13	3.5	47
87	Conjugal transfer of the Salmonella enterica virulence plasmid in the mouse intestine. <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 1922-7	3.5	46
86	Role of the RecBCD recombination pathway in Salmonella virulence. <i>Journal of Bacteriology</i> , <b>2002</b> , 184, 592-5	3.5	46
85	Virulence attenuation in Salmonella enterica rcsC mutants with constitutive activation of the Rcs system. <i>Microbiology (United Kingdom)</i> , <b>2005</b> , 151, 579-588	2.9	45
84	Genome expression analysis of nonproliferating intracellular Salmonella enterica serovar Typhimurium unravels an acid pH-dependent PhoP-PhoQ response essential for dormancy. <i>Infection and Immunity</i> , <b>2013</b> , 81, 154-65	3.7	44
83	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. <i>BMC Microbiology</i> , <b>2013</b> , 13, 67	4.5	43
82	Selection of small-colony variants of Salmonella enterica serovar typhimurium in nonphagocytic eucaryotic cells. <i>Infection and Immunity</i> , <b>2003</b> , 71, 3690-8	3.7	43
81	A eukaryotic-like 3' untranslated region in Salmonella enterica hliD mRNA. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, 5894-906	20.1	39
80	Use of mixed infections to study cell invasion and intracellular proliferation of Salmonella enterica in eukaryotic cell cultures. <i>Journal of Microbiological Methods</i> , <b>2004</b> , 56, 83-91	2.8	38
79	Bacterial DNA Methylation and Methylomes. <i>Advances in Experimental Medicine and Biology</i> , <b>2016</b> , 945, 35-61	3.6	37
78	The origin and evolution of human pathogens. <i>Molecular Microbiology</i> , <b>2005</b> , 56, 1-7	4.1	37
77	Regulation of finP transcription by DNA adenine methylation in the virulence plasmid of Salmonella enterica. <i>Journal of Bacteriology</i> , <b>2005</b> , 187, 5691-9	3.5	37
76	STM2209-STM2208 (opvAB): a phase variation locus of Salmonella enterica involved in control of O-antigen chain length. <i>PLoS ONE</i> , <b>2012</b> , 7, e36863	3.7	36
75	Regulation of Salmonella enterica pathogenicity island 1 by DNA adenine methylation. <i>Genetics</i> , <b>2010</b> , 184, 637-49	4	34
74	Absence of insertions among spontaneous mutants of Salmonella typhimurium. <i>Molecular Genetics and Genomics</i> , <b>1989</b> , 216, 210-6		33
73	Conserved structure of IS200 elements in Salmonella. <i>Nucleic Acids Research</i> , <b>1997</b> , 25, 1355-61	20.1	29
72	Transcriptional occlusion of transposon targets. <i>Molecular Genetics and Genomics</i> , <b>1989</b> , 216, 204-9		29

71	YhdJ, a nonessential CcrM-like DNA methyltransferase of <i>Escherichia coli</i> and <i>Salmonella enterica</i> . <i>Journal of Bacteriology</i> , <b>2007</b> , 189, 4325-7	3.5	27
70	Regulation of <i>Salmonella enterica</i> pathogenicity island 1 (SPI-1) by the LysR-type regulator LeuO. <i>Molecular Microbiology</i> , <b>2014</b> , 91, 1057-69	4.1	26
69	Identification of the <i>Salmonella enterica</i> damX gene product, an inner membrane protein involved in bile resistance. <i>Journal of Bacteriology</i> , <b>2010</b> , 192, 893-5	3.5	26
68	IS200 is not a member of the IS600 family of insertion sequences. <i>Nucleic Acids Research</i> , <b>1991</b> , 19, 1343-5	20.1	26
67	The GATC-binding protein SeqA is required for bile resistance and virulence in <i>Salmonella enterica</i> serovar typhimurium. <i>Journal of Bacteriology</i> , <b>2007</b> , 189, 8496-502	3.5	25
66	IS200: an old and still bacterial transposon. <i>International Microbiology</i> , <b>2004</b> , 7, 3-12	3	25
65	The UbiK protein is an accessory factor necessary for bacterial ubiquinone (UQ) biosynthesis and forms a complex with the UQ biogenesis factor UbiJ. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 11937-11950	5.4	24
64	OxyR-dependent formation of DNA methylation patterns in OpvABOFF and OpvABON cell lineages of <i>Salmonella enterica</i> . <i>Nucleic Acids Research</i> , <b>2016</b> , 44, 3595-609	20.1	24
63	Roles of the outer membrane protein AsmA of <i>Salmonella enterica</i> in the control of marRAB expression and invasion of epithelial cells. <i>Journal of Bacteriology</i> , <b>2009</b> , 191, 3615-22	3.5	24
62	Std fimbriae-fucose interaction increases <i>Salmonella</i> -induced intestinal inflammation and prolongs colonization. <i>PLoS Pathogens</i> , <b>2019</b> , 15, e1007915	7.6	23
61	Regulation of bacterial conjugation in microaerobiosis by host-encoded functions ArcAB and sdhABCD. <i>Genetics</i> , <b>2010</b> , 184, 947-58	4	23
60	Bile-induced curing of the virulence plasmid in <i>Salmonella enterica</i> serovar Typhimurium. <i>Journal of Bacteriology</i> , <b>2006</b> , 188, 7963-5	3.5	23
59	Detection of salmonellas by DNA hybridization with a fluorescent alkaline phosphatase substrate. <i>Journal of Applied Bacteriology</i> , <b>1992</b> , 72, 393-9		23
58	Dormant intracellular <i>Salmonella enterica</i> serovar Typhimurium discriminates among <i>Salmonella</i> pathogenicity island 2 effectors to persist inside fibroblasts. <i>Infection and Immunity</i> , <b>2014</b> , 82, 221-32	3.7	22
57	Crosstalk between virulence loci: regulation of <i>Salmonella enterica</i> pathogenicity island 1 (SPI-1) by products of the std fimbrial operon. <i>PLoS ONE</i> , <b>2012</b> , 7, e30499	3.7	21
56	Insertion hot spot for horizontally acquired DNA within a bidirectional small-RNA locus in <i>Salmonella enterica</i> . <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 4075-8	3.5	21
55	Compositional heterogeneity of the <i>Escherichia coli</i> genome: a role for VSP repair?. <i>Journal of Molecular Evolution</i> , <b>1994</b> , 39, 340-6	3.1	21
54	<i>Pseudomonas syringae</i> Differentiates into Phenotypically Distinct Subpopulations During Colonization of a Plant Host. <i>Environmental Microbiology</i> , <b>2016</b> , 18, 3593-3605	5.2	20

53	Intestinal and chronic infections: Salmonella lifestyles in hostile environments. <i>Environmental Microbiology Reports</i> , <b>2011</b> , 3, 508-17	3.7	20
52	Strain typing with IS200 fingerprints in Salmonella abortusovis. <i>Applied and Environmental Microbiology</i> , <b>1996</b> , 62, 2375-80	4.8	20
51	Virulence plasmid interchange between strains ATCC 14028, LT2, and SL1344 of Salmonella enterica serovar Typhimurium. <i>Plasmid</i> , <b>2011</b> , 65, 169-75	3.3	19
50	Repression of IS200 transposase synthesis by RNA secondary structures. <i>Nucleic Acids Research</i> , <b>1999</b> , 27, 3690-5	20.1	19
49	Tn10 mutagenesis in Azotobacter vinelandii. <i>Molecular Genetics and Genomics</i> , <b>1987</b> , 209, 276-82		19
48	Bile-induced peptidoglycan remodelling in Salmonella enterica. <i>Environmental Microbiology</i> , <b>2015</b> , 17, 1081-9	5.2	18
47	Contribution of SPI-1 bistability to Salmonella enterica cooperative virulence: insights from single cell analysis. <i>Scientific Reports</i> , <b>2018</b> , 8, 14875	4.9	16
46	Suppression of the pleiotropic effects of HisH and HisF overproduction identifies four novel loci on the Salmonella typhimurium chromosome: osmH, sfiW, sfiX, and sfiY. <i>Journal of Bacteriology</i> , <b>1995</b> , 177, 4841-50	3.5	15
45	Virulence Gene Regulation by L-Arabinose in Salmonella enterica. <i>Genetics</i> , <b>2015</b> , 200, 807-19	4	14
44	Adaptation of Salmonella enterica to bile: essential role of AcrAB-mediated efflux. <i>Environmental Microbiology</i> , <b>2018</b> , 20, 1405-1418	5.2	13
43	Bistability and phase variation in Salmonella enterica. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2019</b> , 1862, 752-758	6	13
42	recB recJ mutants of Salmonella typhimurium are deficient in transductional recombination, DNA repair and plasmid maintenance. <i>Molecular Genetics and Genomics</i> , <b>1996</b> , 250, 570-80		12
41	Transposition of Tn 1 to the Rhizobium meliloti genome. <i>Molecular Genetics and Genomics</i> , <b>1980</b> , 180, 405-10		12
40	General transduction in Rhizobium meliloti by a thermosensitive mutant of bacteriophage DF2. <i>Journal of Bacteriology</i> , <b>1979</b> , 139, 316-7	3.5	12
39	Regulation of conjugal transfer by Lrp and Dam methylation in plasmid R100. <i>International Microbiology</i> , <b>2005</b> , 8, 279-85	3	12
38	The Salmonella typhimurium RecJ function permits growth of P22 abc phage on recBCD+ hosts. <i>Molecular Genetics and Genomics</i> , <b>1992</b> , 232, 470-8		11
37	Tn5 mutagenesis and insertion replacement in Azotobacter vinelandii. <i>Plasmid</i> , <b>1991</b> , 25, 76-80	3.3	11
36	Cell division inhibition in Salmonella typhimurium histidine-constitutive strains: anftsI-like defect in the presence of wild-type penicillin-binding protein 3 levels. <i>Journal of Bacteriology</i> , <b>1998</b> , 180, 5231-4	3.5	11

35	Formation of phenotypic lineages in <i>Salmonella enterica</i> by a pleiotropic fimbrial switch. <i>PLoS Genetics</i> , <b>2018</b> , 14, e1007677	6	11
34	The <i>sfiX</i> , <i>rfe</i> and <i>metN</i> genes of <i>Salmonella typhimurium</i> and their involvement in the His(c) pleiotropic response. <i>Molecular Genetics and Genomics</i> , <b>1998</b> , 259, 46-53		10
33	Bacterial L-forms require peptidoglycan synthesis for cell division. <i>BioEssays</i> , <b>2007</b> , 29, 1189-91	4.1	10
32	Genetic mapping by duplication segregation in <i>Salmonella enterica</i> . <i>Genetics</i> , <b>2001</b> , 157, 491-502	4	10
31	<i>sulA</i> -independent division inhibition in his-constitutive strains of <i>Salmonella typhimurium</i> . <i>FEMS Microbiology Letters</i> , <b>1990</b> , 57, 205-10	2.9	10
30	Regulation of bistability in the <i>std</i> fimbrial operon of <i>Salmonella enterica</i> by DNA adenine methylation and transcription factors HdfR, StdE and StdF. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, 7929-7941	20.1	9
29	The pleiotropic effects of his overexpression in <i>Salmonella typhimurium</i> do not involve AICAR-induced mutagenesis. <i>Molecular Genetics and Genomics</i> , <b>1993</b> , 240, 360-4		9
28	Contribution of DNA adenine methylation to gene expression heterogeneity in <i>Salmonella enterica</i> . <i>Nucleic Acids Research</i> , <b>2020</b> , 48, 11857-11867	20.1	9
27	Redox controls RecA protein activity via reversible oxidation of its methionine residues. <i>ELife</i> , <b>2021</b> , 10,	8.9	9
26	Mutational and non mutational adaptation of <i>Salmonella enterica</i> to the gall bladder. <i>Scientific Reports</i> , <b>2019</b> , 9, 5203	4.9	8
25	The importance of motility and chemotaxis for extra-animal survival of <i>Salmonella enterica</i> serovar Typhimurium and Dublin. <i>Journal of Applied Microbiology</i> , <b>2012</b> , 113, 560-8	4.7	8
24	The DamX protein of <i>Escherichia coli</i> and <i>Salmonella enterica</i> . <i>Gut Microbes</i> , <b>2010</b> , 1, 285-288	8.8	8
23	Intestinal invasion of <i>Salmonella enterica</i> serovar Typhimurium in the avian host is dose dependent and does not depend on motility and chemotaxis. <i>Veterinary Microbiology</i> , <b>2013</b> , 165, 373-7	3.3	7
22	Regulation of <i>igaA</i> and the Rcs system by the MviA response regulator in <i>Salmonella enterica</i> . <i>Journal of Bacteriology</i> , <b>2009</b> , 191, 2743-52	3.5	7
21	A portable epigenetic switch for bistable gene expression in bacteria. <i>Scientific Reports</i> , <b>2019</b> , 9, 11261	4.9	6
20	Increased bile resistance in <i>Salmonella enterica</i> mutants lacking Prc periplasmic protease. <i>International Microbiology</i> , <b>2013</b> , 16, 87-92	3	6
19	Lack of hotspot targets: a constraint for IS30 transposition in <i>Salmonella</i> . <i>Gene</i> , <b>1999</b> , 238, 231-9	3.8	5
18	Regulation of septation: a novel role for SerC/PdxF in <i>Salmonella</i> ?. <i>Molecular Genetics and Genomics</i> , <b>2000</b> , 264, 184-92		4



17	Host RecJ is required for growth of P22 erf bacteriophage. <i>Journal of Bacteriology</i> , <b>1993</b> , 175, 288-90	3.5	4
16	Genome-Wide Identification and Expression Analysis of SOS Response Genes in Serovar Typhimurium. <i>Cells</i> , <b>2021</b> , 10,	7.9	4
15	Epigenetic biosensors for bacteriophage detection and phage receptor discrimination. <i>Environmental Microbiology</i> , <b>2020</b> , 22, 3126-3142	5.2	3
14	Single Cell Analysis of Bistable Expression of Pathogenicity Island 1 and the Flagellar Regulon in. <i>Microorganisms</i> , <b>2021</b> , 9,	4.9	3
13	A possible relationship between VSP mismatch repair and gene expression level. <i>Journal of Molecular Evolution</i> , <b>1996</b> , 43, 161-3	3.1	2
12	recB recJ. <i>Molecular Genetics and Genomics</i> , <b>1996</b> , 250, 570		2
11	Copy Number Heterogeneity in the Virulence Plasmid of. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 599931	5.7	2
10	Waddington's Landscapes in the Bacterial World. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 685080	5.7	2
9	Construction of genetically defined aroA mutant of a native E. coli O78:K80 isolated from avian colibacillosis, in Iran. <i>Comparative Clinical Pathology</i> , <b>2009</b> , 18, 69-75	0.9	1
8	Cloning with Mud-P22 hybrid prophages: mapping of IS200 elements on the chromosome of Salmonella typhimurium LT2. <i>Molecular Genetics and Genomics</i> , <b>1997</b> , 256, 586-8		1
7	The P22 Erf protein and host RecA provide alternative functions for transductional segregation of plasmid-borne duplications. <i>Molecular Genetics and Genomics</i> , <b>1998</b> , 259, 39-45		1
6	Formation of Bacterial Lineages in Salmonella enterica by Epigenetic Mechanisms. <i>Epigenetics and Human Health</i> , <b>2016</b> , 1-17		1
5	Genetic Mapping in Salmonella enterica <b>2003</b> , 10-21		
4	Transcriptional regulation of the fimbrial operon by the RcsCDB system. <i>Microbiology (United Kingdom)</i> , <b>2019</b> , 165, 1245-1250	2.9	
3	Of Bacteria and Bile153-162		
2	Covert Operations: the Adaptable Plan of Attack Deployed by Pathogenic Bacteria185-200		
1	Evidence for Involvement of the Z-Ring Assembly Factors ZapA and ZapB in Resistance to Bile. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 647305	5.7	