

# Montserrat ElÃ- as-Arnanz

## List of Publications by Year in descending order

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48  
papers

1,551  
citations

257450

24  
h-index

315739

38  
g-index

48  
all docs

48  
docs citations

48  
times ranked

1130  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural basis for gene regulation by a B12-dependent photoreceptor. <i>Nature</i> , 2015, 526, 536-541.	27.8	149
2	Light-dependent gene regulation by a coenzyme B <sub>12</sub> -based photoreceptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7565-7570.	7.1	145
3	The photochemical mechanism of a B12-dependent photoreceptor protein. <i>Nature Communications</i> , 2015, 6, 7907.	12.8	92
4	A New Facet of Vitamin B <sub>12</sub> : Gene Regulation by Cobalamin-Based Photoreceptors. <i>Annual Review of Biochemistry</i> , 2017, 86, 485-514.	11.1	85
5	A bacterial light response reveals an orphan desaturase for human plasmalogen synthesis. <i>Science</i> , 2019, 366, 128-132.	12.6	84
6	Two Systems for Conditional Gene Expression in <i>Myxococcus xanthus</i> Inducible by Isopropyl-β-D-Thiogalactopyranoside or Vanillate. <i>Journal of Bacteriology</i> , 2012, 194, 5875-5885.	2.2	72
7	Vitamin B <sub>12</sub> partners the CarH repressor to downregulate a photoinducible promoter in <i>Myxococcus xanthus</i> . <i>Molecular Microbiology</i> , 2008, 67, 804-819.	2.5	63
8	Light-dependent gene regulation in nonphototrophic bacteria. <i>Current Opinion in Microbiology</i> , 2011, 14, 128-135.	5.1	56
9	CdnL, a member of the large CarD-like family of bacterial proteins, is vital for <i>Myxococcus xanthus</i> and differs functionally from the global transcriptional regulator CarD. <i>Nucleic Acids Research</i> , 2010, 38, 4586-4598.	14.5	44
10	Bacteriophage phi 29 DNA replication arrest caused by codirectional collisions with the transcription machinery. <i>EMBO Journal</i> , 1997, 16, 5775-5783.	7.8	41
11	Domain Architecture of a High Mobility Group A-type Bacterial Transcriptional Factor. <i>Journal of Biological Chemistry</i> , 2001, 276, 41566-41575.	3.4	35
12	The <i>Stigmatella aurantiaca</i> Homolog of <i>Myxococcus xanthus</i> High-Mobility-Group A-Type Transcription Factor CarD: Insights into the Functional Modules of CarD and Their Distribution in Bacteria. <i>Journal of Bacteriology</i> , 2003, 185, 3527-3537.	2.2	34
13	Resolution of head-on collisions between the transcription machinery and bacteriophage Phi 29 DNA polymerase is dependent on RNA polymerase translocation. <i>EMBO Journal</i> , 1999, 18, 5675-5682.	7.8	32
14	A Repressor-Antirepressor Pair Links Two Loci Controlling Light-induced Carotenogenesis in <i>Myxococcus xanthus</i> . <i>Journal of Biological Chemistry</i> , 2002, 277, 7262-7270.	3.4	31
15	CarF Mediates Signaling by Singlet Oxygen, Generated via Photoexcited Protoporphyrin IX, in <i>Myxococcus xanthus</i> Light-Induced Carotenogenesis. <i>Journal of Bacteriology</i> , 2012, 194, 1427-1436.	2.2	31
16	Analytical ultracentrifugation studies of oligomerization and DNA-binding of TtCarH, a <i>Thermus thermophilus</i> coenzyme B <sub>12</sub> -based photosensory regulator. <i>European Biophysics Journal</i> , 2013, 42, 463-476.	2.2	31
17	A bacterial antirepressor with SH3 domain topology mimics operator DNA in sequestering the repressor DNA recognition helix. <i>Nucleic Acids Research</i> , 2010, 38, 5226-5241.	14.5	30
18	Functional interactions between a phage histone-like protein and a transcriptional factor in regulation of phi 29 early-late transcriptional switch. <i>Genes and Development</i> , 1999, 13, 2502-2513.	5.9	30

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19	Recruitment of a novel zinc-bound transcriptional factor by a bacterial HMGA-type protein is required for regulating multiple processes in <i>Myxococcus xanthus</i> . <i>Molecular Microbiology</i> , 2006, 61, 910-926.	2.5	29
20	Insertions of Tn5 linked to mutations affecting carotenoid synthesis in <i>Myxococcus xanthus</i> . <i>Molecular Genetics and Genomics</i> , 1986, 205, 107-114.	2.4	27
21	A Vitamin B <sub>12</sub> -Based System for Conditional Expression Reveals <i>dksA</i> To Be an Essential Gene in <i>Myxococcus xanthus</i> . <i>Journal of Bacteriology</i> , 2009, 191, 3108-3119.	2.2	27
22	Folding Kinetics of Phage 434 Cro Protein. <i>Biochemistry</i> , 2000, 39, 13963-13973.	2.5	26
23	Operator Design and Mechanism for CarA Repressor-mediated Down-regulation of the Photoinducible <i>carB</i> Operon in <i>Myxococcus xanthus</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 28945-28953.	3.4	25
24	The N Terminus of <i>Myxococcus xanthus</i> CarA Repressor Is an Autonomously Folding Domain That Mediates Physical and Functional Interactions with Both Operator DNA and Antirepressor Protein. <i>Journal of Biological Chemistry</i> , 2004, 279, 33093-33103.	3.4	25
25	The Photoactive Excited State of the B <sub>12</sub> -Based Photoreceptor CarH. <i>Journal of Physical Chemistry B</i> , 2020, 124, 10732-10738.	2.6	25
26	Structural basis for operator and antirepressor recognition by <i>Myxococcus xanthus</i> CarA repressor. <i>Molecular Microbiology</i> , 2007, 63, 980-994.	2.5	24
27	The regulatory action of the myxobacterial CarD/CarG complex: a bacterial enhanceosome?. <i>FEMS Microbiology Reviews</i> , 2010, 34, 764-778.	8.6	23
28	B12-based photoreceptors: from structure and function to applications in optogenetics and synthetic biology. <i>Current Opinion in Structural Biology</i> , 2019, 57, 47-55.	5.7	23
29	The CarD/CarG regulatory complex is required for the action of several members of the large set of <i>Myxococcus xanthus</i> extracytoplasmic function $\beta$ factors. <i>Environmental Microbiology</i> , 2014, 16, 2475-2490.	3.8	21
30	Thermodynamic Analysis of the Structural Stability of Phage 434 Cro Protein. <i>Biochemistry</i> , 1999, 38, 15536-15547.	2.5	19
31	Structural Insights into RNA Polymerase Recognition and Essential Function of <i>Myxococcus xanthus</i> CdnL. <i>PLoS ONE</i> , 2014, 9, e108946.	2.5	19
32	<i>Saccharomyces cerevisiae</i> mutants defective in plasmid-chromosome recombination. <i>Molecular Genetics and Genomics</i> , 1996, 252, 530-538.	2.4	17
33	<i>Caulobacter crescentus</i> CdnL is a non-essential RNA polymerase-binding protein whose depletion impairs normal growth and rRNA transcription. <i>Scientific Reports</i> , 2017, 7, 43240.	3.3	15
34	Functional equivalence of HMGA- and histone H1-like domains in a bacterial transcriptional factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 13546-13551.	7.1	14
35	Multifactorial control of the expression of a CRISPR-Cas system by an extracytoplasmic function $\beta$ /anti- $\beta$ pair and a global regulatory complex. <i>Nucleic Acids Research</i> , 2018, 46, 6726-6745.	14.5	14
36	Carotenogenesis in <i>Myxococcus xanthus</i> : a Complex Regulatory Network. , 2014, , 211-225.		12

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37	Structure-Function Dissection of Myxococcus xanthus CarD N-Terminal Domain, a Defining Member of the CarD_CdnL_TRCF Family of RNA Polymerase Interacting Proteins. PLoS ONE, 2015, 10, e0121322.	2.5	12
38	Plasticity in oligomerization, operator architecture, and DNA binding in the mode of action of a bacterial B12-based photoreceptor. Journal of Biological Chemistry, 2018, 293, 17888-17905.	3.4	12
39	Light-Triggered Carotenogenesis in Myxococcus xanthus: New Paradigms in Photosensory Signaling, Transduction and Gene Regulation. Microorganisms, 2021, 9, 1067.	3.6	10
40	NMR structure note: N-terminal domain of Thermus thermophilus CdnL. Journal of Biomolecular NMR, 2012, 53, 355-363.	2.8	9
41	Plasmalogens and Photooxidative Stress Signaling in Myxobacteria, and How it Unmasked CarF/TMEM189 as the 1 <sup>st</sup> 1 <sup>st</sup> -Desaturase PÉDS1 for Human Plasmalogen Biosynthesis. Frontiers in Cell and Developmental Biology, 2022, 10, .	3.7	9
42	High-Mobility-Group A-Like CarD Binds to a DNA Site Optimized for Affinity and Position and to RNA Polymerase To Regulate a Light-Inducible Promoter in Myxococcus xanthus. Journal of Bacteriology, 2013, 195, 378-388.	2.2	6
43	Anaerobic bacteria need their vitamin B <sub>12</sub> to digest estrogen. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1833-1835.	7.1	6
44	<sup>1</sup> H, <sup>13</sup> C and <sup>15</sup> N assignments of CdnL, an essential protein in Myxococcus xanthus. Biomolecular NMR Assignments, 2013, 7, 51-55.	0.8	4
45	Coenzyme B <sub>12</sub> dependent and independent photoregulation of carotenogenesis across Myxococcales. Environmental Microbiology, 2022, , .	3.8	4
46	Vitamin B12 photoreceptors. Vitamins and Hormones, 2022, 119, 149-184.	1.7	4
47	<sup>1</sup> H, <sup>13</sup> C and <sup>15</sup> N backbone and side chain resonance assignments of the C-terminal domain of CdnL from Myxococcus xanthus. Biomolecular NMR Assignments, 2009, 3, 9-12.	0.8	3
48	<sup>1</sup> H, <sup>13</sup> C and <sup>15</sup> N backbone and side chain resonance assignments of a Myxococcus xanthus anti-repressor with no known sequence homologues. Biomolecular NMR Assignments, 2009, 3, 37-40.	0.8	2