Montserrat ElÃ-as-Arnanz

List of Publications by Year
in descending order

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	Coenzyme B 12 â€dependent and independent photoregulation of carotenogenesis across Myxococcales. Environmental Microbiology, 2022, , .	3.8	4
2	Vitamin B12 photoreceptors. Vitamins and Hormones, 2022, 119, 149-184.	1.7	4
3	Plasmalogens and Photooxidative Stress Signaling in Myxobacteria, and How it Unmasked CarF/TMEM189 as the Î”1â€²-Desaturase PEDS1 for Human Plasmalogen Biosynthesis. Frontiers in Cell and Developmental Biology, 2022, 10, .	3.7	9
4	Light-Triggered Carotenogenesis in Myxococcus xanthus: New Paradigms in Photosensory Signaling, Transduction and Gene Regulation. Microorganisms, 2021, 9, 1067.	3.6	10
5	Anaerobic bacteria need their vitamin B ₁₂ to digest estrogen. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1833-1835.	7.1	6
6	The Photoactive Excited State of the B₁₂-Based Photoreceptor CarH. Journal of Physical Chemistry B, 2020, 124, 10732-10738.	2.6	25
7	A bacterial light response reveals an orphan desaturase for human plasmalogen synthesis. Science, 2019, 366, 128-132.	12.6	84
8	B12-based photoreceptors: from structure and function to applications in optogenetics and synthetic biology. Current Opinion in Structural Biology, 2019, 57, 47-55.	5.7	23
9	Multifactorial control of the expression of a CRISPR-Cas system by an extracytoplasmic function Ïƒ/anti-Ïƒ pair and a global regulatory complex. Nucleic Acids Research, 2018, 46, 6726-6745.	14.5	14
10	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
11	Caulobacter crescentus CdnL is a non-essential RNA polymerase-binding protein whose depletion impairs normal growth and rRNA transcription. Scientific Reports, 2017, 7, 43240.	3.3	15
12	A New Facet of Vitamin B₁₂: Gene Regulation by Cobalamin-Based Photoreceptors. Annual Review of Biochemistry, 2017, 86, 485-514.	11.1	85
13	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
14	Structural basis for gene regulation by a B12-dependent photoreceptor. Nature, 2015, 526, 536-541.	27.8	149
15	The photochemical mechanism of a B12-dependent photoreceptor protein. Nature Communications, 2015, 6, 7907.	12.8	92
16	Structural Insights into RNA Polymerase Recognition and Essential Function of Myxococcus xanthus CdnL. PLoS ONE, 2014, 9, e108946.	2.5	19
17	The <scp>CarD</scp>/<scp>CarG</scp> regulatory complex is required for the action of several members of the large set of <scp>M</scp>yxococcus xanthus extracytoplasmic function Ïƒ factors. Environmental Microbiology, 2014, 16, 2475-2490.	3.8	21
18	Carotenogenesis in Myxococcus xanthus: a Complex Regulatory Network. , 2014, , 211-225.		12

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19	Analytical ultracentrifugation studies of oligomerization and DNA-binding of TtCarH, a Thermus thermophilus coenzyme B12-based photosensory regulator. European Biophysics Journal, 2013, 42, 463-476.	2.2	31
20	1H, 13C and 15N assignments of CdnL, an essential protein in Myxococcus xanthus. Biomolecular NMR Assignments, 2013, 7, 51-55.	0.8	4
21	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
22	Two Systems for Conditional Gene Expression in Myxococcus xanthus Inducible by Isopropyl-Î²-<scp>d</scp> -Thiogalactopyranoside or Vanillate. Journal of Bacteriology, 2012, 194, 5875-5885.	2.2	72
23	CarF Mediates Signaling by Singlet Oxygen, Generated via Photoexcited Protoporphyrin IX, in Myxococcus xanthus Light-Induced Carotenogenesis. Journal of Bacteriology, 2012, 194, 1427-1436.	2.2	31
24	NMR structure note: N-terminal domain of Thermus thermophilus CdnL. Journal of Biomolecular NMR, 2012, 53, 355-363.	2.8	9
25	Light-dependent gene regulation in nonphototrophic bacteria. Current Opinion in Microbiology, 2011, 14, 128-135.	5.1	56
26	Light-dependent gene regulation by a coenzyme B ₁₂ -based photoreceptor. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7565-7570.	7.1	145
27	The regulatory action of the myxobacterial CarD/CarG complex: a bacterial enhanceosome?. FEMS Microbiology Reviews, 2010, 34, 764-778.	8.6	23
28	CdnL, a member of the large CarD-like family of bacterial proteins, is vital for Myxococcus xanthus and differs functionally from the global transcriptional regulator CarD. Nucleic Acids Research, 2010, 38, 4586-4598.	14.5	44
29	A bacterial antirepressor with SH3 domain topology mimics operator DNA in sequestering the repressor DNA recognition helix. Nucleic Acids Research, 2010, 38, 5226-5241.	14.5	30
30	Functional equivalence of HMGA- and histone H1-like domains in a bacterial transcriptional factor. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13546-13551.	7.1	14
31	A Vitamin B₁₂-Based System for Conditional Expression RevealsdksATo Be an Essential Gene inMyxococcus xanthus. Journal of Bacteriology, 2009, 191, 3108-3119.	2.2	27
32	1H, 13C and 15N 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
33	1H, 13C and 15N 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
34	Vitamin B₁₂ partners the CarH repressor to downregulate a photoinducible promoter in Myxococcus xanthus. Molecular Microbiology, 2008, 67, 804-819.	2.5	63
35	Structural basis for operator and antirepressor recognition by Myxococcus xanthus CarA repressor. Molecular Microbiology, 2007, 63, 980-994.	2.5	24
36	Recruitment of a novel zinc-bound transcriptional factor by a bacterial HMGA-type protein is required for regulating multiple processes in Myxococcus xanthus. Molecular Microbiology, 2006, 61, 910-926.	2.5	29

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37	Operator Design and Mechanism for CarA Repressor-mediated Down-regulation of the Photoinducible carB Operon in Myxococcus xanthus. Journal of Biological Chemistry, 2004, 279, 28945-28953.	3.4	25
38	The N Terminus of Myxococcus xanthus CarA Repressor Is an Autonomously Folding Domain That Mediates Physical and Functional Interactions with Both Operator DNA and Antirepressor Protein. Journal of Biological Chemistry, 2004, 279, 33093-33103.	3.4	25
39	The Stigmatella aurantiaca Homolog of Myxococcus xanthus High-Mobility-Group A-Type Transcription Factor CarD: Insights into the Functional Modules of CarD and Their Distribution in Bacteria. Journal of Bacteriology, 2003, 185, 3527-3537.	2.2	34
40	A Repressor-Antirepressor Pair Links Two Loci Controlling Light-induced Carotenogenesis in Myxococcus xanthus. Journal of Biological Chemistry, 2002, 277, 7262-7270.	3.4	31
41	Domain Architecture of a High Mobility Group A-type Bacterial Transcriptional Factor. Journal of Biological Chemistry, 2001, 276, 41566-41575.	3.4	35
42	Folding Kinetics of Phage 434 Cro Proteinâ€. Biochemistry, 2000, 39, 13963-13973.	2.5	26
43	Resolution of head-on collisions between the transcription machinery and bacteriophage Phi 29 DNA polymerase is dependent on RNA polymerase translocation. EMBO Journal, 1999, 18, 5675-5682.	7.8	32
44	Thermodynamic Analysis of the Structural Stability of Phage 434 Cro Proteinâ€. Biochemistry, 1999, 38, 15536-15547.	2.5	19
45	Functional interactions between a phage histone-like protein and a transcriptional factor in regulation of phi 29 early-late transcriptional switch. Genes and Development, 1999, 13, 2502-2513.	5.9	30
46	Bacteriophage phi 29 DNA replication arrest caused by codirectional collisions with the transcription machinery. EMBO Journal, 1997, 16, 5775-5783.	7.8	41
47	Saccharomyces cerevisiae mutants defective in plasmid-chromosome recombination. Molecular Genetics and Genomics, 1996, 252, 530-538.	2.4	17
48	Insertions of Tn5 linked to mutations affecting carotenoid synthesis inMyxococcus xanthus. Molecular Genetics and Genomics, 1986, 205, 107-114.	2.4	27