

# Gabriel Moncalian

## List of Publications by Year in descending order

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49  
papers

3,257  
citations

201658

27  
h-index

189881

50  
g-index

54  
all docs

54  
docs citations

54  
times ranked

3215  
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated strategy for the separation of endotoxins from biofluids. LPS capture on newly synthesized protein. Separation and Purification Technology, 2021, 255, 117689.	7.9	4
2	Reprogramming microorganisms for the biosynthesis of astaxanthin via metabolic engineering. Progress in Lipid Research, 2021, 81, 101083.	11.6	39
3	Structure and Mechanism of the Ketosynthase-Chain Length Factor Didomain from a Prototypical Polyunsaturated Fatty Acid Synthase. Biochemistry, 2020, 59, 4735-4743.	2.5	2
4	Biochemical interactions between LPS and LPS-binding molecules. Critical Reviews in Biotechnology, 2020, 40, 292-305.	9.0	32
5	ArdC, a ssDNA-binding protein with a metalloprotease domain, overpasses the recipient hsdRMS restriction system broadening conjugation host range. PLoS Genetics, 2020, 16, e1008750.	3.5	19
6	Identification of Relaxase-DNA Covalent Complexes and DNA Strand Transfer Reaction Products by Polyacrylamide Gel Electrophoresis. Methods in Molecular Biology, 2020, 2075, 145-156.	0.9	1
7	Directed evolution of a bacterial WS/DGAT acyltransferase: improving tDGAT from Thermomonospora curvata. Protein Engineering, Design and Selection, 2019, 32, 25-32.	2.1	5
8	fabH deletion increases DHA production in Escherichia coli expressing Pfa genes. Microbial Cell Factories, 2018, 17, 88.	4.0	5
9	Loading of malonyl-CoA onto tandem acyl carrier protein domains of polyunsaturated fatty acid synthases. Journal of Biological Chemistry, 2018, 293, 12491-12501.	3.4	26
10	Nutrient starvation leading to triglyceride accumulation activates the Entner Doudoroff pathway in Rhodococcus jostii RHA1. Microbial Cell Factories, 2017, 16, 35.	4.0	13
11	Relaxases and Plasmid Transfer in Gram-Negative Bacteria. Current Topics in Microbiology and Immunology, 2017, 413, 93-113.	1.1	35
12	Heterologous expression of a thermophilic diacylglycerol acyltransferase triggers triglyceride accumulation in Escherichia coli. PLoS ONE, 2017, 12, e0176520.	2.5	8
13	Comparative Genomics of the Conjugation Region of F-like Plasmids: Five Shades of F. Frontiers in Molecular Biosciences, 2016, 3, 71.	3.5	82
14	Concerted action of NIC relaxase and auxiliary protein MobC in RA3 plasmid conjugation. Molecular Microbiology, 2016, 101, 439-456.	2.5	6
15	Effect of cerulenin on fatty acid composition and gene expression pattern of DHA-producing strain Colwellia psychrerythraea strain 34H. Microbial Cell Factories, 2016, 15, 30.	4.0	19
16	Orthogonale Assemblierung von Proteinen auf DNA-Nanostrukturen mithilfe von Relaxasen. Angewandte Chemie, 2016, 128, 4421-4425.	2.0	7
17	Orthogonal Protein Assembly on DNA Nanostructures Using Relaxases. Angewandte Chemie - International Edition, 2016, 55, 4348-4352.	13.8	40
18	Physiological and genetic differences amongst Rhodococcus species for using glycerol as a source for growth and triacylglycerol production. Microbiology (United Kingdom), 2016, 162, 384-397.	1.8	23

#	ARTICLE	IF	CITATIONS
19	Design of Novel Relaxase Substrates Based on Rolling Circle Replicases for Bioconjugation to DNA Nanostructures. <i>PLoS ONE</i> , 2016, 11, e0152666.	2.5	4
20	Transcription factor-based biosensors enlightened by the analyte. <i>Frontiers in Microbiology</i> , 2015, 6, 648.	3.5	121
21	Biorefinery options to valorize the spent liquor from sulfite pulping. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 2218-2226.	3.2	40
22	A high security double lock and key mechanism in HUH relaxases controls oriT-processing for plasmid conjugation. <i>Nucleic Acids Research</i> , 2014, 42, 10632-10643.	14.5	18
23	Use of Limited Proteolysis and Mutagenesis To Identify Folding Domains and Sequence Motifs Critical for Wax Ester Synthase/Acyl Coenzyme A:Diacylglycerol Acyltransferase Activity. <i>Applied and Environmental Microbiology</i> , 2014, 80, 1132-1141.	3.1	24
24	Breaking and joining single-stranded DNA: the HUH endonuclease superfamily. <i>Nature Reviews Microbiology</i> , 2013, 11, 525-538.	28.6	244
25	Catalytic domain of plasmid pAD1 relaxase TraX defines a group of relaxases related to restriction endonucleases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13606-13611.	7.1	25
26	Alterations of OprD in Carbapenem-Intermediate and -Susceptible Strains of <i>Pseudomonas aeruginosa</i> Isolated from Patients with Bacteremia in a Spanish Multicenter Study. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 1703-1713.	3.2	111
27	Interaction between relaxase MbeA and accessory protein MbeC of the conjugally mobilizable plasmid ColE1. <i>FEBS Letters</i> , 2012, 586, 675-679.	2.8	12
28	ABC ATPase signature helices in Rad50 link nucleotide state to Mre11 interface for DNA repair. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 423-431.	8.2	149
29	The stb Operon Balances the Requirements for Vegetative Stability and Conjugative Transfer of Plasmid R388. <i>PLoS Genetics</i> , 2011, 7, e1002073.	3.5	56
30	Relaxase DNA Binding and Cleavage Are Two Distinguishable Steps in Conjugative DNA Processing That Involve Different Sequence Elements of the nic Site. <i>Journal of Biological Chemistry</i> , 2010, 285, 8918-8926.	3.4	30
31	Analysis of ColE1 MbeC Unveils an Extended Ribbon-Helix-Helix Family of Nicking Accessory Proteins. <i>Journal of Bacteriology</i> , 2009, 191, 1446-1455.	2.2	34
32	Plasmid R1 Conjugative DNA Processing Is Regulated at the Coupling Protein Interface. <i>Journal of Bacteriology</i> , 2009, 191, 6877-6887.	2.2	33
33	Changing the recognition site of a conjugative relaxase by rational design. <i>Biotechnology Journal</i> , 2009, 4, 554-557.	3.5	13
34	Reply to "The binding stoichiometry of CIN85 SH3 domain A and Cbl-b". <i>Nature Structural and Molecular Biology</i> , 2008, 15, 891-892.	8.2	3
35	Mre11 Dimers Coordinate DNA End Bridging and Nuclease Processing in Double-Strand-Break Repair. <i>Cell</i> , 2008, 135, 97-109.	28.9	427
36	<i>Coprinus cinereus</i> rad50 Mutants Reveal an Essential Structural Role for Rad50 in Axial Element and Synaptonemal Complex Formation, Homolog Pairing and Meiotic Recombination. <i>Genetics</i> , 2008, 180, 1889-1907.	2.9	17

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37	Analysis of DNA processing reactions in bacterial conjugation by using suicide oligonucleotides. EMBO Journal, 2007, 26, 3847-3857.	7.8	53
38	Conjugative transfer can be inhibited by blocking relaxase activity within recipient cells with intrabodies. Molecular Microbiology, 2007, 63, 404-416.	2.5	65
39	Atypical Polyproline Recognition by the CMS N-terminal Src Homology 3 Domain. Journal of Biological Chemistry, 2006, 281, 38845-38853.	3.4	35
40	Cbl promotes clustering of endocytic adaptor proteins. Nature Structural and Molecular Biology, 2005, 12, 972-979.	8.2	56
41	DNA binding properties of protein TrwA, a possible structural variant of the Arc repressor superfamily. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2004, 1701, 15-23.	2.3	45
42	The Rad50 Signature Motif: Essential to ATP Binding and Biological Function. Journal of Molecular Biology, 2004, 335, 937-951.	4.2	85
43	Recognition and processing of the origin of transfer DNA by conjugative relaxase TrwC. Nature Structural and Molecular Biology, 2003, 10, 1002-1010.	8.2	132
44	Conjugative Plasmid Protein TrwB, an Integral Membrane Type IV Secretion System Coupling Protein. Journal of Biological Chemistry, 2002, 277, 7556-7566.	3.4	75
45	The Rad50 zinc-hook is a structure joining Mre11 complexes in DNA recombination and repair. Nature, 2002, 418, 562-566.	27.8	485
46	The bacterial conjugation protein TrwB resembles ring helicases and F1-ATPase. Nature, 2001, 409, 637-641.	27.8	318
47	Characterization of ATP and DNA Binding Activities of TrwB, the Coupling Protein Essential in Plasmid R388 Conjugation. Journal of Biological Chemistry, 1999, 274, 36117-36124.	3.4	97
48	IHF protein inhibits cleavage but not assembly of plasmid R388 relaxosomes. Molecular Microbiology, 1999, 31, 1643-1652.	2.5	24
49	OriT-processing and regulatory roles of TrwA protein in plasmid R388 conjugation. Journal of Molecular Biology, 1997, 270, 188-200.	4.2	59