

# Douglas D Risser

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8129372/publications.pdf>

Version: 2024-02-01

25  
papers

802  
citations

516710

16  
h-index

580821

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

488  
citing authors

#	ARTICLE	IF	CITATIONS
1	Genetic and cytological evidence that heterocyst patterning is regulated by inhibitor gradients that promote activator decay. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19884-19888.	7.1	77
2	Evidence that a modified type IV pilus-like system powers gliding motility and polysaccharide secretion in filamentous cyanobacteria. Molecular Microbiology, 2015, 98, 1021-1036.	2.5	74
3	FraG is necessary for filament integrity and heterocyst maturation in the cyanobacterium <i>Anabaena</i> sp. strain PCC 7120. Microbiology (United Kingdom), 2007, 153, 601-607.	1.8	67
4	Genetic Analysis Reveals the Identity of the Photoreceptor for Phototaxis in Hormogonium Filaments of <i>Nostoc punctiforme</i> . Journal of Bacteriology, 2015, 197, 782-791.	2.2	59
5	HetF and PatA Control Levels of HetR in <i>Anabaena</i> sp. Strain PCC 7120. Journal of Bacteriology, 2008, 190, 7645-7654.	2.2	58
6	The RGSGR amino acid motif of the intercellular signalling protein, HetN, is required for patterning of heterocysts in <i>Anabaena</i> sp. strain PCC 7120. Molecular Microbiology, 2012, 83, 682-693.	2.5	48
7	Comparative transcriptomics with a motility-deficient mutant leads to identification of a novel polysaccharide secretion system in <i>Nostoc punctiforme</i> . Molecular Microbiology, 2013, 87, 884-893.	2.5	48
8	Biased inheritance of the protein PatN frees vegetative cells to initiate patterned heterocyst differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15342-15347.	7.1	47
9	Epistasis Analysis of Four Genes from <i>Anabaena</i> sp. Strain PCC 7120 Suggests a Connection between PatA and PatS in Heterocyst Pattern Formation. Journal of Bacteriology, 2006, 188, 1808-1816.	2.2	44
10	Genetic characterization of the <i>hmp</i> locus, a chemotaxis-like gene cluster that regulates hormogonium development and motility in <i>Nostoc punctiforme</i> . Molecular Microbiology, 2014, 92, 222-233.	2.5	39
11	Mutagenesis of <i>hetR</i> Reveals Amino Acids Necessary for HetR Function in the Heterocystous Cyanobacterium <i>Anabaena</i> sp. Strain PCC 7120. Journal of Bacteriology, 2007, 189, 2460-2467.	2.2	35
12	Transcriptional Regulation of the Heterocyst Patterning Gene <i>patA</i> from <i>Anabaena</i> sp. Strain PCC 7120. Journal of Bacteriology, 2010, 192, 4732-4740.	2.2	30
13	The non-metabolizable sucrose analog sucralose is a potent inhibitor of hormogonium differentiation in the filamentous cyanobacterium <i>Nostoc punctiforme</i> . Archives of Microbiology, 2016, 198, 137-147.	2.2	27
14	Dynamic localization of HmpF regulates type IV pilus activity and directional motility in the filamentous cyanobacterium <i>Nostoc punctiforme</i> . Molecular Microbiology, 2017, 106, 252-265.	2.5	27
15	A Tripartite, Hierarchical Sigma Factor Cascade Promotes Hormogonium Development in the Filamentous Cyanobacterium <i>Nostoc punctiforme</i> . MSphere, 2019, 4, .	2.9	24
16	A partner-switching regulatory system controls hormogonium development in the filamentous cyanobacterium <i>Nostoc punctiforme</i> . Molecular Microbiology, 2018, 109, 555-569.	2.5	20
17	A Putative O-Linked N-Acetylglucosamine Transferase Is Essential for Hormogonium Development and Motility in the Filamentous Cyanobacterium <i>Nostoc punctiforme</i> . Journal of Bacteriology, 2017, 199, .	2.2	18
18	Identification of a hormogonium polysaccharide-specific gene set conserved in filamentous cyanobacteria. Molecular Microbiology, 2020, 114, 597-608.	2.5	16

#	ARTICLE	IF	CITATIONS
19	The cyanobacterial taxis protein HmpF regulates type IV pilus activity in response to light. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	12
20	The Hybrid Histidine Kinase HrmK Is an Early-Acting Factor in the Hormogonium Gene Regulatory Network. Journal of Bacteriology, 2020, 202, .	2.2	8
21	Differential secretion pathways of proteins fused to the Escherichia coli maltose binding protein (MBP) in Pichia pastoris. Protein Expression and Purification, 2016, 124, 1-9.	1.3	7
22	Role of <i>BGS13</i> in the Secretory Mechanism of Pichia pastoris. Applied and Environmental Microbiology, 2019, 85, .	3.1	7
23	The primary transcriptome of hormogonia from a filamentous cyanobacterium defined by cappable-seq. Microbiology (United Kingdom), 2021, 167, .	1.8	4
24	A DnaK(Hsp70) Chaperone System Connects Type IV Pilus Activity to Polysaccharide Secretion in Cyanobacteria. MBio, 2022, 13, e0051422.	4.1	3
25	A Regulatory Linkage Between Scytonemin Production and Hormogonia Differentiation in Nostoc punctiforme. IScience, 2022, , 104361.	4.1	3