

# Daniel R Gallie

## List of Publications by Citations

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91  
papers

6,006  
citations

39  
h-index

77  
g-index

263  
ext. papers

6,545  
ext. citations

5.9  
avg, IF

6.15  
L-index

#	Paper	IF	Citations
91	Increasing vitamin C content of plants through enhanced ascorbate recycling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 3525-30	11.5	406
90	The 5' leader sequence of tobacco mosaic virus RNA enhances the expression of foreign gene transcripts in vitro and in vivo. <i>Nucleic Acids Research</i> , <b>1987</b> , 15, 3257-73	20.1	371
89	The ascorbic acid redox state controls guard cell signaling and stomatal movement. <i>Plant Cell</i> , <b>2004</b> , 16, 1143-62	11.6	316
88	A tale of two termini: a functional interaction between the termini of an mRNA is a prerequisite for efficient translation initiation. <i>Gene</i> , <b>1998</b> , 216, 1-11	3.8	240
87	The role of L-ascorbic acid recycling in responding to environmental stress and in promoting plant growth. <i>Journal of Experimental Botany</i> , <b>2013</b> , 64, 433-43	7	217
86	Translation initiation factors eIF-iso4G and eIF-4B interact with the poly(A)-binding protein and increase its RNA binding activity. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 16247-55	5.4	210
85	Programmed cell death during endosperm development. <i>Plant Molecular Biology</i> , <b>2000</b> , 44, 283-301	4.6	210
84	Identification of the motifs within the tobacco mosaic virus 5' leader responsible for enhancing translation. <i>Nucleic Acids Research</i> , <b>1992</b> , 20, 4631-8	20.1	195
83	Increasing tolerance to ozone by elevating foliar ascorbic acid confers greater protection against ozone than increasing avoidance. <i>Plant Physiology</i> , <b>2005</b> , 138, 1673-89	6.6	189
82	Dehydroascorbate reductase affects leaf growth, development, and function. <i>Plant Physiology</i> , <b>2006</b> , 142, 775-87	6.6	179
81	Brassinosteroid functions to protect the translational machinery and heat-shock protein synthesis following thermal stress. <i>Plant Journal</i> , <b>2002</b> , 29, 681-91	6.9	177
80	Analysis of programmed cell death in wheat endosperm reveals differences in endosperm development between cereals. <i>Plant Molecular Biology</i> , <b>1999</b> , 39, 915-26	4.6	143
79	ACC synthase expression regulates leaf performance and drought tolerance in maize. <i>Plant Journal</i> , <b>2004</b> , 40, 813-25	6.9	138
78	L-ascorbic Acid: a multifunctional molecule supporting plant growth and development. <i>Scientifica</i> , <b>2013</b> , 2013, 795964	2.6	135
77	The 5' leader of tobacco mosaic virus promotes translation through enhanced recruitment of eIF4F. <i>Nucleic Acids Research</i> , <b>2002</b> , 30, 3401-11	20.1	112
76	Regulation of programmed cell death in maize endosperm by abscisic acid. <i>Plant Molecular Biology</i> , <b>2000</b> , 42, 397-414	4.6	112
75	eIF4G functionally differs from eIFiso4G in promoting internal initiation, cap-independent translation, and translation of structured mRNAs. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 36951-60	5.4	109

74	Cap-independent translation conferred by the 5Uleader of tobacco etch virus is eukaryotic initiation factor 4G dependent. <i>Journal of Virology</i> , <b>2001</b> , 75, 12141-52	6.6	104
73	The tobacco etch viral 5Uleader and poly(A) tail are functionally synergistic regulators of translation. <i>Gene</i> , <b>1995</b> , 165, 233-8	3.8	94
72	Translational control of cellular and viral mRNAs. <i>Plant Molecular Biology</i> , <b>1996</b> , 32, 145-58	4.6	93
71	The phosphorylation state of translation initiation factors is regulated developmentally and following heat shock in wheat. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 1046-53	5.4	86
70	Post-transcriptional regulation in higher eukaryotes: the role of the reporter gene in controlling expression. <i>Molecular Genetics and Genomics</i> , <b>1991</b> , 228, 258-64		83
69	Developmental and Thermal Regulation of the Maize Heat Shock Protein, HSP101. <i>Plant Physiology</i> , <b>2001</b> , 127, 777-791	6.6	79
68	Unified nomenclature for the subunits of eukaryotic initiation factor 3. <i>Trends in Biochemical Sciences</i> , <b>2001</b> , 26, 284	10.3	78
67	The role of the 3Utranslated region of non-polyadenylated plant viral mRNAs in regulating translational efficiency. <i>Gene</i> , <b>1994</b> , 142, 159-65	3.8	78
66	Potyvirus genome-linked protein, VPg, directly affects wheat germ in vitro translation: interactions with translation initiation factors eIF4F and eIFiso4F. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 1340-1349	5.4	77
65	Plant initiation factor 3 subunit composition resembles mammalian initiation factor 3 and has a novel subunit. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 2122-31	5.4	76
64	The phosphorylation state of poly(A)-binding protein specifies its binding to poly(A) RNA and its interaction with eukaryotic initiation factor (eIF) 4F, eIFiso4F, and eIF4B. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 17452-62	5.4	74
63	Expression of the ethylene biosynthetic machinery in maize roots is regulated in response to hypoxia. <i>Journal of Experimental Botany</i> , <b>2010</b> , 61, 857-71	7	71
62	Mutational analysis of the tobacco mosaic virus 5Uleader for altered ability to enhance translation. <i>Nucleic Acids Research</i> , <b>1988</b> , 16, 883-93	20.1	71
61	Identification and characterization of the functional elements within the tobacco etch virus 5U leader required for cap-independent translation. <i>Journal of Virology</i> , <b>1999</b> , 73, 9080-8	6.6	66
60	Cap-independent translation of tobacco etch virus is conferred by an RNA pseudoknot in the 5Uleader. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 26813-24	5.4	64
59	The histone 3Uterminal stem-loop-binding protein enhances translation through a functional and physical interaction with eukaryotic initiation factor 4G (eIF4G) and eIF3. <i>Molecular and Cellular Biology</i> , <b>2002</b> , 22, 7853-67	4.8	64
58	Protein-protein interactions required during translation. <i>Plant Molecular Biology</i> , <b>2002</b> , 50, 949-70	4.6	63
57	Deletion of the eIFiso4G subunit of the Arabidopsis eIFiso4F translation initiation complex impairs health and viability. <i>Plant Molecular Biology</i> , <b>2010</b> , 74, 249-63	4.6	58

56	Controlling gene expression in transgenics. <i>Current Opinion in Plant Biology</i> , <b>1998</b> , 1, 166-72	9.9	57
55	Senescence-induced expression of cytokinin reverses pistil abortion during maize flower development. <i>Plant Journal</i> , <b>2004</b> , 38, 910-22	6.9	56
54	Tissue-specific expression of the ethylene biosynthetic machinery regulates root growth in maize. <i>Plant Molecular Biology</i> , <b>2009</b> , 69, 195-211	4.6	51
53	Heat shock protein HSP101 binds to the Fed-1 internal light regulator $\gamma$ element and mediates its high translational activity. <i>Plant Cell</i> , <b>2000</b> , 12, 1213-27	11.6	50
52	Metabolite profiling of Arabidopsis inoculated with <i>Alternaria brassicicola</i> reveals that ascorbate reduces disease severity. <i>Molecular Plant-Microbe Interactions</i> , <b>2012</b> , 25, 1628-38	3.6	38
51	Visualization of poly(A)-binding protein complex formation with poly(A) RNA using atomic force microscopy. <i>Journal of Structural Biology</i> , <b>1997</b> , 119, 109-17	3.4	38
50	Analysis of translation elongation factors from wheat during development and following heat shock. <i>Biochemical and Biophysical Research Communications</i> , <b>1998</b> , 245, 295-300	3.4	38
49	Translation initiation factors are differentially regulated in cereals during development and following heat shock. <i>Plant Journal</i> , <b>1998</b> , 14, 715-722	6.9	37
48	Tobacco etch virus mRNA preferentially binds wheat germ eukaryotic initiation factor (eIF) 4G rather than eIFiso4G. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 35826-34	5.4	36
47	Coat protein enhances translational efficiency of Alfalfa mosaic virus RNAs and interacts with the eIF4G component of initiation factor eIF4F. <i>Journal of General Virology</i> , <b>2005</b> , 86, 1841-1849	4.9	36
46	Aleurone cell identity is suppressed following connation in maize kernels. <i>Plant Physiology</i> , <b>2005</b> , 139, 204-12	6.6	36
45	Dehydroascorbate reductase affects non-photochemical quenching and photosynthetic performance. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 21347-61	5.4	34
44	eIF4G, eIFiso4G, and eIF4B bind the poly(A)-binding protein through overlapping sites within the RNA recognition motif domains. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 25247-58	5.4	34
43	The phosphorylation state of the wheat translation initiation factors eIF4B, eIF4A, and eIF2 is differentially regulated during seed development and germination. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 20084-9	5.4	32
42	The role of 5' leader length, secondary structure and PABP concentration on cap and poly(A) tail function during translation in <i>Xenopus</i> oocytes. <i>Nucleic Acids Research</i> , <b>2000</b> , 28, 2943-53	20.1	31
41	Increasing vitamin C content in plant foods to improve their nutritional value-successes and challenges. <i>Nutrients</i> , <b>2013</b> , 5, 3424-46	6.7	29
40	RNA delivery in <i>Saccharomyces cerevisiae</i> using electroporation. <i>Yeast</i> , <b>1992</b> , 8, 1007-14	3.4	29
39	Ethylene receptors in plants - why so much complexity?. <i>F1000prime Reports</i> , <b>2015</b> , 7, 39		28

38	Secondary structure in the 5' leader or 3' untranslated region reduces protein yield but does not affect the functional interaction between the 5' cap and the poly(A) tail. <i>FEBS Letters</i> , <b>1999</b> , 462, 79-84	3.8	27
37	Wheat eukaryotic initiation factor 4B organizes assembly of RNA and eIFiso4G, eIF4A, and poly(A)-binding protein. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 24351-64	5.4	24
36	Competitive and noncompetitive binding of eIF4B, eIF4A, and the poly(A) binding protein to wheat translation initiation factor eIFiso4G. <i>Biochemistry</i> , <b>2010</b> , 49, 8251-65	3.2	22
35	Regulated ethylene insensitivity through the inducible expression of the Arabidopsis etr1-1 mutant ethylene receptor in tomato. <i>Plant Physiology</i> , <b>2010</b> , 152, 1928-39	6.6	21
34	Analysis of the functional conservation of ethylene receptors between maize and Arabidopsis. <i>Plant Molecular Biology</i> , <b>2010</b> , 74, 405-21	4.6	21
33	The wheat poly(A)-binding protein functionally complements pab1 in yeast. <i>FEBS Journal</i> , <b>1997</b> , 243, 350-7		21
32	Enhancing effect of the 3' untranslated region of tobacco mosaic virus RNA on protein synthesis in vitro. <i>FEBS Letters</i> , <b>1994</b> , 354, 271-3	3.8	21
31	Appearance and elaboration of the ethylene receptor family during land plant evolution. <i>Plant Molecular Biology</i> , <b>2015</b> , 87, 521-39	4.6	20
30	Violaxanthin de-epoxidase is rate-limiting for non-photochemical quenching under subsaturating light or during chilling in Arabidopsis. <i>Plant Physiology and Biochemistry</i> , <b>2012</b> , 58, 66-82	5.4	19
29	Eukaryotic translation initiation factor eIFiso4G is required to regulate violaxanthin De-epoxidase expression in Arabidopsis. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 13926-36	5.4	17
28	The unique evolution of the programmed cell death 4 protein in plants. <i>BMC Evolutionary Biology</i> , <b>2013</b> , 13, 199	3	17
27	Search for the Cellular Functions of Plant Hsp100/Clp Family Proteins. <i>Critical Reviews in Plant Sciences</i> , <b>2001</b> , 20, 277-295	5.6	17
26	Induction of monozygotic twinning by ascorbic acid in tobacco. <i>PLoS ONE</i> , <b>2012</b> , 7, e39147	3.7	17
25	Programmed cell death during endosperm development <b>2000</b> , 39-57		17
24	Eukaryotic initiation factor 4B and the poly(A)-binding protein bind eIF4G competitively. <i>Translation</i> , <b>2013</b> , 1, e24038		15
23	Effects of poly(A)-binding protein on the interactions of translation initiation factor eIF4F and eIF4F.4B with internal ribosome entry site (IRES) of tobacco etch virus RNA. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2008</b> , 1779, 622-7	6	14
22	Solution structure of the PABC domain from wheat poly (A)-binding protein: an insight into RNA metabolic and translational control in plants. <i>Biochemistry</i> , <b>2007</b> , 46, 4221-31	3.2	14
21	The effect of the length of the 3' untranslated region on expression in plants. <i>FEBS Letters</i> , <b>1996</b> , 394, 285-8	3.8	14

20	Developmental and Thermal Regulation of the Maize Heat Shock Protein, HSP101. <i>Plant Physiology</i> , <b>2001</b> , 127, 777-791	6.6	13
19	Eukaryotic Initiation Factor eFiso4G1 and eFiso4G2 Are Isoforms Exhibiting Distinct Functional Differences in Supporting Translation in Arabidopsis. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 1501-1354	5.4	12
18	Chloroplast-localized iron superoxide dismutases FSD2 and FSD3 are functionally distinct in Arabidopsis. <i>PLoS ONE</i> , <b>2019</b> , 14, e0220078	3.7	12
17	Translation initiation factor 4B homodimerization, RNA binding, and interaction with Poly(A)-binding protein are enhanced by zinc. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 36140-53	5.4	12
16	RNase activity requires formation of disulfide bonds and is regulated by the redox state. <i>Plant Molecular Biology</i> , <b>2004</b> , 55, 83-96	4.6	12
15	ATP-dependent hexameric assembly of the heat shock protein Hsp101 involves multiple interaction domains and a functional C-proximal nucleotide-binding domain. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 39617-26	5.4	11
14	Sequence diversity and conservation of the poly(A)-binding protein in plants. <i>Plant Science</i> , <b>2000</b> , 152, 101-114	5.3	11
13	Ethylene Regulates Energy-Dependent Non-Photochemical Quenching in Arabidopsis through Repression of the Xanthophyll Cycle. <i>PLoS ONE</i> , <b>2015</b> , 10, e0144209	3.7	11
12	The role of the poly(A) binding protein in the assembly of the Cap-binding complex during translation initiation in plants. <i>Translation</i> , <b>2014</b> , 2, e959378		9
11	Phylogenetic analysis reveals dynamic evolution of the poly(A)-binding protein gene family in plants. <i>BMC Evolutionary Biology</i> , <b>2014</b> , 14, 238	3	7
10	Plant growth and fertility requires functional interactions between specific PABP and eIF4G gene family members. <i>PLoS ONE</i> , <b>2018</b> , 13, e0191474	3.7	6
9	Class II members of the poly(A) binding protein family exhibit distinct functions during Arabidopsis growth and development. <i>Translation</i> , <b>2017</b> , 5, e1295129		5
8	Induction of RNase and nuclease activity in cultured maize endosperm cells following sucrose starvation. <i>Plant Cell, Tissue and Organ Culture</i> , <b>2002</b> , 68, 163-170	2.7	5
7	Introduction of mRNA to plant protoplasts using polyethylene glycol. <i>Plant Cell Reports</i> , <b>1993</b> , 13, 119-223.1		5
6	Use of in vitro translation extract depleted in specific initiation factors for the investigation of translational regulation. <i>Methods in Enzymology</i> , <b>2007</b> , 429, 35-51	1.7	4
5	Insights from a Paradigm Shift: How the Poly(A)-Binding Protein Brings Translating mRNAs Full Circle. <i>New Journal of Science</i> , <b>2014</b> , 2014, 1-16		4
4	m7GpppG Cap Dependence for Efficient Translation of Drosophila 70-kDa Heat-Shock-Protein (Hsp70) mRNA. <i>FEBS Journal</i> , <b>2008</b> , 232, 778-788		
3	Tobacco Etch Virus mRNA Preferentially Binds Wheat Germ Eukaryotic Initiation Factor (eIF)4G rather than (eIF)iso4G. <i>FASEB Journal</i> , <b>2006</b> , 20, A108	0.9	

- 2 Poly(A)-Binding Protein Affects the Kinetics of Tobacco Etch Virus Pseudoknot RNA Binding to Wheat germ Translation Initiation Factor eIF4F. *FASEB Journal*, **2008**, 22, 998.1 0.9
- 1 Biophysical Characterization of Effect of Zinc on Eukaryotic Translation Initiation Factor 4B. *FASEB Journal*, **2010**, 24, 499.10 0.9