

# Frank Shewmaker

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

2,795  
citations

331670

21  
h-index

501196

28  
g-index

31  
all docs

31  
docs citations

31  
times ranked

3245  
citing authors

#	ARTICLE	IF	CITATIONS
1	Phosphorylation of the <sc>FUS</sc> low-complexity domain disrupts phase separation, aggregation, and toxicity. <i>EMBO Journal</i> , 2017, 36, 2951-2967.	7.8	544
2	A single N-terminal phosphomimic disrupts TDP-43 polymerization, phase separation, and RNA splicing. <i>EMBO Journal</i> , 2018, 37, .	7.8	297
3	Amyloid of the prion domain of Sup35p has an in-register parallel beta-sheet structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 19754-19759.	7.1	280
4	RNA-binding ability of FUS regulates neurodegeneration, cytoplasmic mislocalization and incorporation into stress granules associated with FUS carrying ALS-linked mutations. <i>Human Molecular Genetics</i> , 2013, 22, 1193-1205.	2.9	187
5	The Role of Post-Translational Modifications in the Phase Transitions of Intrinsically Disordered Proteins. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5501.	4.1	155
6	Structural Insights into Functional and Pathological Amyloid. <i>Journal of Biological Chemistry</i> , 2011, 286, 16533-16540.	3.4	146
7	The Functional Curli Amyloid Is Not Based on In-register Parallel $\beta^2$ -Sheet Structure. <i>Journal of Biological Chemistry</i> , 2009, 284, 25065-25076.	3.4	119
8	Quantitative Characterization of Heparin Binding to Tau Protein. <i>Journal of Biological Chemistry</i> , 2010, 285, 3592-3599.	3.4	96
9	Curing of the [URE3] prion by Btn2p, a Batten disease-related protein. <i>EMBO Journal</i> , 2008, 27, 2725-2735.	7.8	94
10	Stress granules at the intersection of autophagy and ALS. <i>Brain Research</i> , 2016, 1649, 189-200.	2.2	93
11	The Role of Post-Translational Modifications on Prion-Like Aggregation and Liquid-Phase Separation of FUS. <i>International Journal of Molecular Sciences</i> , 2018, 19, 886.	4.1	92
12	Two Prion Variants of Sup35p Have In-Register Parallel $\beta^2$ -Sheet Structures, Independent of Hydration. <i>Biochemistry</i> , 2009, 48, 5074-5082.	2.5	89
13	Protein inheritance (prions) based on parallel in-register $\beta^2$ -sheet amyloid structures. <i>BioEssays</i> , 2008, 30, 955-964.	2.5	82
14	FUS/TLS forms cytoplasmic aggregates, inhibits cell growth and interacts with TDP-43 in a yeast model of amyotrophic lateral sclerosis. <i>Protein and Cell</i> , 2011, 2, 223-236.	11.0	79
15	Ure2p Function Is Enhanced by Its Prion Domain in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2007, 176, 1557-1565.	2.9	72
16	Amyloids of Shuffled Prion Domains That Form Prions Have a Parallel In-Register $\beta^2$ -Sheet Structure. <i>Biochemistry</i> , 2008, 47, 4000-4007.	2.5	63
17	A yeast model of optineurin proteinopathy reveals a unique aggregation pattern associated with cellular toxicity. <i>Molecular Microbiology</i> , 2012, 86, 1531-1547.	2.5	59
18	Pur-alpha regulates cytoplasmic stress granule dynamics and ameliorates FUS toxicity. <i>Acta Neuropathologica</i> , 2016, 131, 605-620.	7.7	56

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19	Non-targeted Identification of Prions and Amyloid-forming Proteins from Yeast and Mammalian Cells. <i>Journal of Biological Chemistry</i> , 2013, 288, 27100-27111.	3.4	55
20	The oncogenic transcription factor FUS-CHOP can undergo nuclear liquid-liquid phase separation. <i>Journal of Cell Science</i> , 2021, 134, .	2.0	28
21	N-terminal acetylation modestly enhances phase separation and reduces aggregation of the low-complexity domain of RNA-binding protein fused in sarcoma. <i>Protein Science</i> , 2021, 30, 1337-1349.	7.6	27
22	Modeling ALS and FTL D proteinopathies in yeast: An efficient approach for studying protein aggregation and toxicity. <i>Prion</i> , 2011, 5, 250-257.	1.8	24
23	DDX17 is involved in DNA damage repair and modifies FUS toxicity in an RGG-domain dependent manner. <i>Acta Neuropathologica</i> , 2021, 142, 515-536.	7.7	20
24	The prion-like domain of Fused in Sarcoma is phosphorylated by multiple kinases affecting liquid- and solid-phase transitions. <i>Molecular Biology of the Cell</i> , 2020, 31, 2522-2536.	2.1	16
25	Ageing in yeast does not enhance prion generation. <i>Yeast</i> , 2006, 23, 1123-1128.	1.7	7
26	Study of Amyloids Using Yeast. <i>Methods in Molecular Biology</i> , 2018, 1779, 313-339.	0.9	6
27	Amyloid cannot resist identification. <i>Prion</i> , 2013, 7, 464-468.	1.8	5
28	The Application of NMR Techniques to Bacterial Adhesins. <i>Advances in Experimental Medicine and Biology</i> , 2011, 715, 241-256.	1.6	1
29	25 years of yeast prions. <i>Prion</i> , 2020, 14, 29-30.	1.8	0
30	Molecular Analysis of Genetic Variation in Prions of <i>Saccharomyces cerevisiae</i> . <i>FASEB Journal</i> , 2012, 26, 398.11.	0.5	0