CITATION REPORT List of articles citing

Loss of Dynamic RNA Interaction and Aberrant Phase Separation Induced by Two Distinct Types of ALS/FTD-Linked FUS Mutations

DOI: 10.1016/j.molcel.2019.09.022 Molecular Cell, 2020, 77, 82-94.e4.

Source: https://exaly.com/paper-pdf/75011084/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
92	Fused in Sarcoma (FUS) in DNA Repair: Tango with Poly(ADP-ribose) Polymerase 1 and Compartmentalisation of Damaged DNA. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	8
91	Lysine acetylation regulates the RNA binding, subcellular localization and inclusion formation of FUS. <i>Human Molecular Genetics</i> , 2020 , 29, 2684-2697	5.6	16
90	Molecular structure and interactions within amyloid-like fibrils formed by a low-complexity protein sequence from FUS. <i>Nature Communications</i> , 2020 , 11, 5735	17.4	23
89	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	3.5	4
88	Phenotypic diversity in ALS and the role of poly-conformational protein misfolding. <i>Acta Neuropathologica</i> , 2021 , 142, 41-55	14.3	4
87	Nuclear Import Receptors Directly Bind to Arginine-Rich Dipeptide Repeat Proteins and Suppress Their Pathological Interactions. <i>Cell Reports</i> , 2020 , 33, 108538	10.6	25
86	Phase Separation as a Missing Mechanism for Interpretation of Disease Mutations. <i>Cell</i> , 2020 , 183, 1742	-4 <i>8</i> . 5 6	34
85	ALS/FTLD-Linked Mutations in FUS Glycine Residues Cause Accelerated Gelation and Reduced Interactions with Wild-Type FUS. <i>Molecular Cell</i> , 2020 , 80, 666-681.e8	17.6	21
84	Single-Protein Collapse Determines Phase Equilibria of a Biological Condensate. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 4923-4929	6.4	18
83	ALS/FTD-associated protein FUS induces mitochondrial dysfunction by preferentially sequestering respiratory chain complex mRNAs. <i>Genes and Development</i> , 2020 , 34, 785-805	12.6	13
82	Protein Phase Separation during Stress Adaptation and Cellular Memory. <i>Cells</i> , 2020 , 9,	7.9	10
81	Methods to Study Phase-Separated Condensates and the Underlying Molecular Interactions. <i>Trends in Biochemical Sciences</i> , 2020 , 45, 1004-1005	10.3	4
80	Circulating RNAs as Potential Biomarkers in Amyotrophic Lateral Sclerosis. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	19
79	The Overlapping Genetics of Amyotrophic Lateral Sclerosis and Frontotemporal Dementia. <i>Frontiers in Neuroscience</i> , 2020 , 14, 42	5.1	66
78	Spot in a drop: mutations in aberrant condensates. <i>Nature Reviews Molecular Cell Biology</i> , 2021 , 22, 162	- 463 7	2
77	A precise and general FRET-based method for monitoring structural transitions in protein self-organization.		1
76	Transportin-1: A Nuclear Import Receptor with Moonlighting Functions. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 638149	5.6	4

(2021-2021)

75	Single-molecule and ensemble methods to probe RNP nucleation and condensate properties. <i>Methods</i> , 2021 , 197, 74-74	4.6	2
74	Profiling PRMT methylome reveals roles of hnRNPA1 arginine methylation in RNA splicing and cell growth. <i>Nature Communications</i> , 2021 , 12, 1946	17.4	14
73	Combating deleterious phase transitions in neurodegenerative disease. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2021 , 1868, 118984	4.9	13
72	Karyopherin abnormalities in neurodegenerative proteinopathies. <i>Brain</i> , 2021 , 144, 2915-2932	11.2	2
71	(Dis)Solving the problem of aberrant protein states. <i>DMM Disease Models and Mechanisms</i> , 2021 , 14,	4.1	7
70	Regeneration of PEG slide for multiple rounds of single-molecule measurements. <i>Biophysical Journal</i> , 2021 , 120, 1788-1799	2.9	6
69	PLIP 2021: expanding the scope of the protein-ligand interaction profiler to DNA and RNA. <i>Nucleic Acids Research</i> , 2021 , 49, W530-W534	20.1	106
68	Generic nature of the condensed states of proteins. <i>Nature Cell Biology</i> , 2021 , 23, 587-594	23.4	25
67	Polyphasic linkage and the impact of ligand binding on the regulation of biomolecular condensates. <i>Biophysics Reviews</i> , 2021 , 2, 021302	2.6	6
66	Protein phase separation and its role in chromatin organization and diseases. <i>Biomedicine and Pharmacotherapy</i> , 2021 , 138, 111520	7.5	1
65	FUS and TDP-43 Phases in Health and Disease. <i>Trends in Biochemical Sciences</i> , 2021 , 46, 550-563	10.3	40
64	Nuclear Protein Condensates and Their Properties in Regulation of Gene Expression. <i>Journal of Molecular Biology</i> , 2021 , 167151	6.5	3
63	RNA Is a Double-Edged Sword in ALS Pathogenesis. Frontiers in Cellular Neuroscience, 2021, 15, 708181	6.1	3
62	FUS-ALS mutants alter FMRP phase separation equilibrium and impair protein translation. <i>Science Advances</i> , 2021 , 7,	14.3	6
61	Biomolecular Condensates and Their Links to Cancer Progression. <i>Trends in Biochemical Sciences</i> , 2021 , 46, 535-549	10.3	14
60	Nuclear-Import Receptors Counter Deleterious Phase Transitions in Neurodegenerative Disease. Journal of Molecular Biology, 2021 , 434, 167220	6.5	2
59	UTX condensation underlies its tumour-suppressive activity. <i>Nature</i> , 2021 , 597, 726-731	50.4	15
58	Melatonin: Regulation of Biomolecular Condensates in Neurodegenerative Disorders. <i>Antioxidants</i> , 2021 , 10,	7.1	6

57	Probing steps in DNA transcription using single-molecule methods. <i>Journal of Biological Chemistry</i> , 2021 , 297, 101086	5.4	1
56	RNA modulates physiological and neuropathological protein phase transitions. <i>Neuron</i> , 2021 , 109, 2663	3- 26.8 1	7
55	Integrating single-molecule spectroscopy and simulations for the study of intrinsically disordered proteins. <i>Methods</i> , 2021 , 193, 116-135	4.6	6
54	Coarse-grained simulations of phase separation driven by DNA and its sensor protein cGAS. <i>Archives of Biochemistry and Biophysics</i> , 2021 , 710, 109001	4.1	2
53	Biomolecular condensates at the nexus of cellular stress, protein aggregation disease and ageing. <i>Nature Reviews Molecular Cell Biology</i> , 2021 , 22, 196-213	48.7	123
52	Fuzzy protein theory for disordered proteins. <i>Biochemical Society Transactions</i> , 2020 , 48, 2557-2564	5.1	5
51	Liquid-liquid phase separation in autophagy. <i>Journal of Cell Biology</i> , 2020 , 219,	7.3	39
50	E. coli Rep helicase and RecA recombinase unwind G4 DNA and are important for resistance to G4-stabilizing ligands. <i>Nucleic Acids Research</i> , 2020 , 48, 6640-6653	20.1	12
49	Sequence determinants of the aggregation of proteins within condensates generated by liquid-liquid phase separation.		2
48	Of numbers and movement - understanding transcription factor pathogenesis by advanced microscopy. <i>DMM Disease Models and Mechanisms</i> , 2020 , 13,	4.1	2
47	Recent advances in understanding amyotrophic lateral sclerosis and emerging therapies. <i>Faculty Reviews</i> , 2020 , 9, 12	1.2	8
46	Skd3 (human ClpB) is a potent mitochondrial protein disaggregase that is inactivated by 3-methylglutaconic aciduria-linked mutations. <i>ELife</i> , 2020 , 9,	8.9	22
45	Glycine-Rich Peptides from FUS Have an Intrinsic Ability to Self-Assemble into Fibers and Networked Fibrils. <i>Biochemistry</i> , 2021 , 60, 3213-3222	3.2	3
44	RNA length has a non-trivial effect in the stability of biomolecular condensates formed by RNA-binding proteins.		
43	ALS-linked FUS mutations dysregulate G-quadruplex-dependent liquid-liquid phase separation and liquid-to-solid transition. <i>Journal of Biological Chemistry</i> , 2021 , 297, 101284	5.4	3
42	Aberrant Phase Separation of FUS Leads to Lysosome Sequestering and Acidification. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 716919	5.7	1
41	Skd3 (human CLPB) is a potent mitochondrial protein disaggregase that is inactivated by 3-methylglutaconic aciduria-linked mutations.		1
40	FuzDB: a new phase in understanding fuzzy interactions. Nucleic Acids Research, 2021,	20.1	5

39	Clustering of Aromatic Residues in Prion-like Domains Can Tune the Formation, State, and Organization of Biomolecular Condensates. <i>Biochemistry</i> , 2021 , 60, 3566-3581	3.2	7
38	Understanding lncRNA-protein assemblies with imaging and single-molecule approaches <i>Current Opinion in Genetics and Development</i> , 2021 , 72, 128-137	4.9	2
37	Liquid-Liquid Phase Separation of TDP-43 and FUS in Physiology and Pathology of Neurodegenerative Diseases <i>Frontiers in Molecular Biosciences</i> , 2022 , 9, 826719	5.6	3
36	RNA length has a non-trivial effect in the stability of biomolecular condensates formed by RNA-binding proteins <i>PLoS Computational Biology</i> , 2022 , 18, e1009810	5	1
35	Single molecule probing of disordered RNA binding proteins STAR Protocols, 2022, 3, 101131	1.4	
34	Protocol for generation and regeneration of PEG-passivated slides for single-molecule measurements STAR Protocols, 2022, 3, 101152	1.4	O
33	Emerging Roles for Phase Separation of RNA-Binding Proteins in Cellular Pathology of ALS <i>Frontiers in Cell and Developmental Biology</i> , 2022 , 10, 840256	5.7	1
32	A FRET-based method for monitoring structural transitions in protein self-organization <i>Cell Reports Methods</i> , 2022 , 2, 100184		Ο
31	Poly(ADP-ribose) drives condensation of FUS via a transient interaction Molecular Cell, 2022,	17.6	2
30	Stress granules in the spinal muscular atrophy and amyotrophic lateral sclerosis: The correlation and promising therapy <i>Neurobiology of Disease</i> , 2022 , 105749	7.5	Ο
29	Prionoids in amyotrophic lateral sclerosis. Brain Communications, 2022, 4,	4.5	O
28	Insights into the Atomistic Mechanisms of Phosphorylation in Disrupting Liquidliquid Phase Separation and Aggregation of the FUS Low-Complexity Domain. <i>Journal of Chemical Information and Modeling</i> ,	6.1	4
27	Additional principles that govern the release of pre-ribosomes from the nucleolus into the nucleoplasm in yeast. <i>Nucleic Acids Research</i> ,	20.1	2
26	Principles Governing the Phase Separation of Multidomain Proteins. <i>Biochemistry</i> ,	3.2	3
25	Single-droplet surface-enhanced Raman scattering decodes the molecular determinants of liquid-liquid phase separation. 2022 , 13,		0
24	RNA Compaction and Recursive Scanning for Small RNA Targets by the Hfq Chaperone.		O
23	Aging RNA granule dynamics in neurodegeneration. 9,		0
22	Molecular determinants of Karyopherin-2 chaperone and disaggregation activity.		O

21	Modulating liquid I quid phase separation of FUS: mechanisms and strategies. 2022, 10, 8616-8628	O
20	FUS Microphase Separation: Regulation by Nucleic Acid Polymers and DNA Repair Proteins. 2022 , 23, 13200	O
19	Single-Molecule Fluorescence Methods to Study Protein-RNA Interactions Underlying Biomolecular Condensates. 2023 , 149-160	0
18	TheSYNGAP13DTR variant in ALS patients causes aberrantSYNGAP1splicing and dendritic spine loss by recruiting HNRNPK. JN-RM-0455-22	o
17	A sePARate phase? Poly(ADP-ribose) versus RNA in the organization of biomolecular condensates.	O
16	Biochemical and structural biology aspects of liquid i lquid phase separation: an interplay between proteins and RNA. 2023 , 133-155	O
15	Interplay of the folded domain and disordered low-complexity domains along with RNA sequence mediate efficient binding of FUS with RNA.	0
14	Sequence-based Prediction of the Cellular Toxicity Associated with Amyloid Aggregation within Protein Condensates. 2022 , 61, 2461-2469	1
13	A minimal construct of nuclear-import receptor Karyopherin-2 defines the regions critical for chaperone and disaggregation activity. 2022 , 102806	0
12	Protein interactions: anything new?. 2022 , 66, 821-830	1
11	The dynamic clustering of insulin receptor underlies its signaling and is disrupted in insulin resistance. 2022 , 13,	0
10	Unravelling the microscopic characteristics of intrinsically disordered proteins upon liquid¶quid phase separation. 2022 , 66, 891-900	1
9	Condensation goes viral: a polymer physics perspective. 2023 , 167988	O
8	DNA curtains for studying phase separation mechanisms of DNA-organizing proteins. 2023,	О
7	Single-molecule techniques to visualize and to characterize liquid-liquid phase separation and phase transition. 2023 ,	0
6	Benchmarking Molecular Dynamics Force Fields for All-Atom Simulations of Biological Condensates.	O
5	Accurate and efficient interpretation of quantitative amino-acid attribution for disordered proteins undergoing LLPS.	0
4	Switch-like Compaction of Poly(ADP-ribose) Upon Cation Binding.	О

CITATION REPORT

Sexually dimorphic RNA helicases DDX3X and DDX3Y differentially regulate hollow condensates of DDX3X disease variants.

Nucleation and dissolution mechanism underlying amyotrophic lateral sclerosis/frontotemporal lobar dementia-linked fused in sarcoma condensates. 2023, 26, 106537

RNA recruitment switches the fate of protein condensates from autophagic degradation to accumulation. 2023, 222,