## Amy S Gladfelter

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Design considerations for analyzing protein translation regulation by condensates. Rna, 2022, 28, 88-96.	3.5	5
2	Dilute phase oligomerization can oppose phase separation and modulate material properties of a ribonucleoprotein condensate. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2120799119.	7.1	53
3	Membrane surfaces regulate assembly of ribonucleoprotein condensates. Nature Cell Biology, 2022, 24, 461-470.	10.3	68
4	RNA contributions to the form and function of biomolecular condensates. Nature Reviews Molecular Cell Biology, 2021, 22, 183-195.	37.0	353
5	The state of the septin cytoskeleton from assembly to function. Current Opinion in Cell Biology, 2021, 68, 105-112.	5.4	82
6	HSP70 chaperones RNA-free TDP-43 into anisotropic intranuclear liquid spherical shells. Science, 2021, 371, .	12.6	200
7	Culturing and Multiplexed Timeâ€Lapse Imaging of Fungal Isolates from Marine and Coastal Environments. Current Protocols, 2021, 1, e94.	2.9	2
8	Moving beyond disease to function: Physiological roles for polyglutamine-rich sequences in cell decisions. Current Opinion in Cell Biology, 2021, 69, 120-126.	5.4	7
9	Roadmap for the multiscale coupling of biochemical and mechanical signals during development. Physical Biology, 2021, 18, 041501.	1.8	29
10	Role of spatial patterning of N-protein interactions in SARS-CoV-2 genome packaging. Biophysical Journal, 2021, 120, 2771-2784.	0.5	20
11	Evolution and Physiology of Amphibious Yeasts. Annual Review of Microbiology, 2021, 75, 337-357.	7.3	3
12	Getting droplets into shape. Science, 2021, 373, 1198-1199.	12.6	2
13	Interplay of septin amphipathic helices in sensing membrane-curvature and filament bundling. Molecular Biology of the Cell, 2021, 32, br5.	2.1	10
14	Quantitative single molecule RNA-FISH and RNase-free cell wall digestion in Neurospora crassa. Fungal Genetics and Biology, 2021, 156, 103615.	2.1	3
15	The hierarchical assembly of septins revealed by high-speed AFM. Nature Communications, 2020, 11, 5062.	12.8	35
16	Shed Light in the DaRk LineagES of the Fungal Tree of Life—STRES. Life, 2020, 10, 362.	2.4	16
17	Genomic RNA Elements Drive Phase Separation of the SARS-CoV-2 Nucleocapsid. Molecular Cell, 2020, 80, 1078-1091.e6.	9.7	255
18	Spatial heterogeneity of the cytosol revealed by machine learning-based 3D particle tracking. Molecular Biology of the Cell, 2020, 31, 1498-1511.	2.1	11

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19	Phosphoregulation provides specificity to biomolecular condensates in the cell cycle and cell polarity. Journal of Cell Biology, 2020, 219, .	5.2	18
20	FXR1 splicing is important for muscle development and biomolecular condensates in muscle cells. Journal of Cell Biology, 2020, 219, .	5.2	30
21	Guanidine hydrochloride reactivates an ancient septin hetero-oligomer assembly pathway in budding yeast. ELife, 2020, 9, .	6.0	15
22	The Control Centers of Biomolecular Phase Separation: How Membrane Surfaces, PTMs, and Active Processes Regulate Condensation. Molecular Cell, 2019, 76, 295-305.	9.7	223
23	Unconventional Cell Division Cycles from Marine-Derived Yeasts. Current Biology, 2019, 29, 3439-3456.e5.	3.9	37
24	Zika Virus Protease Cleavage of Host Protein Septin-2 Mediates Mitotic Defects in Neural Progenitors. Neuron, 2019, 101, 1089-1098.e4.	8.1	55
25	Considerations and Challenges in Studying Liquid-Liquid Phase Separation and Biomolecular Condensates. Cell, 2019, 176, 419-434.	28.9	1,739
26	An amphipathic helix enables septins to sense micrometer-scale membrane curvature. Journal of Cell Biology, 2019, 218, 1128-1137.	5.2	86
27	Marine fungi. Current Biology, 2019, 29, R191-R195.	3.9	88
28	Fungi in the Marine Environment: Open Questions and Unsolved Problems. MBio, 2019, 10, .	4.1	200
29	Partial demixing of RNA-protein complexes leads to intradroplet patterning in phase-separated biological condensates. Physical Review E, 2019, 99, 012411.	2.1	24
30	mRNA structure determines specificity of a polyQ-driven phase separation. Science, 2018, 360, 922-927.	12.6	421
31	Control of septin filament flexibility and bundling by subunit composition and nucleotide interactions. Molecular Biology of the Cell, 2018, 29, 702-712.	2.1	19
32	LITE microscopy: Tilted light-sheet excitation of model organisms offers high resolution and low photobleaching. Journal of Cell Biology, 2018, 217, 1869-1882.	5.2	64
33	Probing RNA Structure in Liquid–Liquid Phase Separation Using SHAPE-MaP. Methods in Enzymology, 2018, 611, 67-79.	1.0	11
34	A New Lens for RNA Localization: Liquid-Liquid Phase Separation. Annual Review of Microbiology, 2018, 72, 255-271.	7.3	108
35	The Unsolved Problem of How Cells Sense Micron-Scale Curvature. Trends in Biochemical Sciences, 2017, 42, 961-976.	7.5	31
36	Lessons from Yeast on How to Avoid Stress Eating. Developmental Cell, 2017, 43, 3-5.	7.0	1

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37	What your PI forgot to tell you: why you actually might want a job running a research lab. Molecular Biology of the Cell, 2017, 28, 1724-1727.	2.1	0
38	Analysis of Septin Reorganization at Cytokinesis Using Polarized Fluorescence Microscopy. Frontiers in Cell and Developmental Biology, 2017, 5, 42.	3.7	40
39	Micron-scale plasma membrane curvature is recognized by the septin cytoskeleton. Journal of Cell Biology, 2016, 213, 23-32.	5.2	169
40	Dissection of molecular assembly dynamics by tracking orientation and position of single molecules in live cells. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6352-E6361.	7.1	76
41	Clustered nuclei maintain autonomy and nucleocytoplasmic ratio control in a syncytium. Molecular Biology of the Cell, 2016, 27, 2000-2007.	2.1	37
42	Polarized Fluorescence Microscopy to Study Cytoskeleton Assembly and Organization in Live Cells. Current Protocols in Cell Biology, 2015, 67, 4.29.1-4.29.13.	2.3	12
43	Cytoskeletal dynamics: A view from the membrane. Journal of Cell Biology, 2015, 209, 329-337.	5.2	147
44	RNA Controls PolyQ Protein Phase Transitions. Molecular Cell, 2015, 60, 220-230.	9.7	605
45	Septin Form and Function at the Cell Cortex. Journal of Biological Chemistry, 2015, 290, 17173-17180.	3.4	119
46	Absolute Arrangement of Subunits in Cytoskeletal Septin Filaments in Cells Measured by Fluorescence Microscopy. Nano Letters, 2015, 15, 3859-3864.	9.1	28
47	PolyQ-dependent RNA–protein assemblies control symmetry breaking. Journal of Cell Biology, 2015, 208, 533-544.	5.2	89
48	Septin assemblies form by diffusion-driven annealing on membranes. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2146-2151.	7.1	162
49	Nuclear Repulsion Enables Division Autonomy in a Single Cytoplasm. Current Biology, 2013, 23, 1999-2010.	3.9	57
50	Protein Aggregation Behavior Regulates Cyclin Transcript Localization and Cell-Cycle Control. Developmental Cell, 2013, 25, 572-584.	7.0	103
51	Septin Phosphorylation and Coiled-Coil Domains Function in Cell and Septin Ring Morphology in the Filamentous Fungus Ashbya gossypii. Eukaryotic Cell, 2013, 12, 182-193.	3.4	31
52	Rapid and Quantitative Imaging of Excitation Polarized Fluorescence Reveals Ordered Septin Dynamics in Live Yeast. Biophysical Journal, 2011, 101, 985-994.	0.5	72
53	Septin filaments exhibit a dynamic, paired organization that is conserved from yeast to mammals. Journal of Cell Biology, 2011, 193, 1065-1081.	5.2	108
54	Physical interaction between VIVID and white collar complex regulates photoadaptation in <i>Neurospora</i> . Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16715-16720.	7.1	138

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55	A conserved G <sub>1</sub> regulatory circuit promotes asynchronous behavior of nuclei sharing a common cytoplasm. Cell Cycle, 2010, 9, 3795-3803.	2.6	26
56	Regulation of Distinct Septin Rings in a Single Cell by Elm1p and Gin4p Kinases. Molecular Biology of the Cell, 2009, 20, 2311-2326.	2.1	70
57	Asynchronous nuclear division cycles in multinucleated cells. Journal of Cell Biology, 2006, 172, 347-362.	5.2	115
58	Interplay between septin organization, cell cycle and cell shape in yeast. Journal of Cell Science, 2005, 118, 1617-1628.	2.0	116
59	Genetic Interactions among Regulators of Septin Organization. Eukaryotic Cell, 2004, 3, 847-854.	3.4	47
60	Scaffold-mediated symmetry breaking by Cdc42p. Nature Cell Biology, 2003, 5, 1062-1070.	10.3	248
61	Septin ring assembly involves cycles of GTP loading and hydrolysis by Cdc42p. Journal of Cell Biology, 2002, 156, 315-326.	5.2	170
62	The septin cortex at the yeast mother–bud neck. Current Opinion in Microbiology, 2001, 4, 681-689.	5.1	304
63	Yeast Cdc42 functions at a late step in exocytosis, specifically during polarized growth of the emerging bud. Journal of Cell Biology, 2001, 155, 581-592.	5.2	151