Geraldine Seydoux

List of Publications by Year
in descending order

48 papers	7,157 citations	159585 30 h-index	197818 49 g-index
63 all docs	63 docs citations	63 times ranked	8185 citing authors

#	Article	IF	Citations
1	Nuage condensates: accelerators or circuit breakers for sRNA silencing pathways?. Rna, 2022, 28, 58-66.	3.5	21
2	Sperm granules mediate epigenetic inheritance. Nature Cell Biology, 2022, 24, 129-130.	10.3	1
3	Improving the specificity of nucleic acid detection with endonuclease-actuated degradation. Communications Biology, 2022, 5, 290.	4.4	3
4	The conserved helicase ZNFX-1 memorializes silenced RNAs in perinuclear condensates. Nature Cell Biology, 2022, 24, 1129-1140.	10.3	19
5	Cell-free reconstitution of multi-condensate assemblies. Methods in Enzymology, 2021, 646, 83-113.	1.0	3
6	Protein-based condensation mechanisms drive the assembly of RNA-rich P granules. ELife, 2021, 10, .	6.0	16
7	Regulation of biomolecular condensates by interfacial protein clusters. Science, 2021, 373, 1218-1224.	12.6	104
8	Recruitment of mRNAs to P granules by condensation with intrinsically-disordered proteins. ELife, 2020, 9, .	6.0	96
9	Puromycin reactivity does not accurately localize translation at the subcellular level. ELife, 2020, 9, .	6.0	51
10	Rapid Tagging of Human Proteins with Fluorescent Reporters by Genome Engineering using Doubleâ€Stranded DNA Donors. Current Protocols in Molecular Biology, 2019, 129, e102.	2.9	9
11	P Granules Protect RNA Interference Genes from Silencing by piRNAs. Developmental Cell, 2019, 50, 716-728.e6.	7.0	85
12	Dynamics of mRNA entry into stress granules. Nature Cell Biology, 2019, 21, 116-117.	10.3	20
13	Phase separation in biology and diseaseâ€"a symposium report. Annals of the New York Academy of Sciences, 2019, 1452, 3-11.	3.8	14
14	Spatial regulation of the polarity kinase PAR-1 by parallel inhibitory mechanisms. Development (Cambridge), 2019, 146, .	2.5	16
15	A gel phase promotes condensation of liquid P granules in Caenorhabditis elegans embryos. Nature Structural and Molecular Biology, 2019, 26, 220-226.	8.2	184
16	Phase Separation in Biology and Disease. Journal of Molecular Biology, 2018, 430, 4603-4606.	4.2	68
17	Single-molecule study reveals the frenetic lives of proteins in gradients. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9336-9338.	7.1	8
18	The P Granules of C. elegans: A Genetic Model for the Study of RNAâ€"Protein Condensates. Journal of Molecular Biology, 2018, 430, 4702-4710.	4.2	129

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19	Precision genome editing using CRISPR-Cas9 and linear repair templates in C. elegans. Methods, 2017, 121-122, 86-93.	3.8	194
20	MIP-MAP: High-Throughput Mapping of Caenorhabditis elegans Temperature-Sensitive Mutants via Molecular Inversion Probes. Genetics, 2017, 207, 447-463.	2.9	23
21	Not just Salk. Science, 2017, 357, 1105-1106.	12.6	4
22	Precision genome editing using synthesis-dependent repair of Cas9-induced DNA breaks. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10745-E10754.	7.1	175
23	Loss-of-function genetic tools for animal models: cross-species and cross-platform differences. Nature Reviews Genetics, 2017, 18, 24-40.	16.3	159
24	Nanos promotes epigenetic reprograming of the germline by down-regulation of the THAP transcription factor LIN-15B. ELife, 2017, 6, .	6.0	47
25	Spatial patterning of P granules by RNA-induced phase separation of the intrinsically-disordered protein MEG-3. ELife, 2016, 5, .	6.0	195
26	Cas9-assisted recombineering inC. elegans: genome editing usingin vivoassembly of linear DNAs. Nucleic Acids Research, 2016, 44, gkw502.	14.5	92
27	High Efficiency, Homology-Directed Genome Editing in Caenorhabditis elegans Using CRISPR-Cas9 Ribonucleoprotein Complexes. Genetics, 2015, 201, 47-54.	2.9	600
28	Regulation of RNA granule dynamics by phosphorylation of serine-rich, intrinsically disordered proteins in C. elegans. ELife, 2014, 3, e04591.	6.0	323
29	Identification of Suppressors ofmbk-2/DYRKby Whole-Genome Sequencing. G3: Genes, Genomes, Genetics, 2014, 4, 231-241.	1.8	15
30	Lattice light-sheet microscopy: Imaging molecules to embryos at high spatiotemporal resolution. Science, 2014, 346, 1257998.	12.6	1,567
31	Scalable and Versatile Genome Editing Using Linear DNAs with Microhomology to Cas9 Sites inCaenorhabditis elegans. Genetics, 2014, 198, 1347-1356.	2.9	292
32	P granules. Current Biology, 2014, 24, R637-R638.	3.9	27
33	The PAR network: redundancy and robustness in a symmetry-breaking system. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20130010.	4.0	79
34	'Goldilocks' suppressor screen identifies web of polarity regulators. Nature Cell Biology, 2013, 15, 9-10.	10.3	2
35	Germ Cell Specification. Advances in Experimental Medicine and Biology, 2013, 757, 17-39.	1.6	57
36	Regulation of the MEX-5 Gradient by a Spatially Segregated Kinase/Phosphatase Cycle. Cell, 2011, 146, 955-968.	28.9	122

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37	RNA Granules in Germ Cells. Cold Spring Harbor Perspectives in Biology, 2011, 3, a002774-a002774.	5.5	302
38	Microtubules induce self-organization of polarized PAR domains in Caenorhabditis elegans zygotes. Nature Cell Biology, 2011, 13, 1361-1367.	10.3	163
39	Cytoplasmic Partitioning of P Granule Components Is Not Required to Specify the Germline in C. elegans. Science, 2010, 330, 1685-1689.	12.6	121
40	Symmetry breaking and polarization of the C. elegans zygote by the polarity protein PAR-2. Development (Cambridge), 2010, 137, 1669-1677.	2.5	123
41	Processing bodies and germ granules are distinct RNA granules that interact in C. elegans embryos. Developmental Biology, 2008, 323, 76-87.	2.0	133
42	Pathway to Totipotency: Lessons from Germ Cells. Cell, 2006, 127, 891-904.	28.9	363
43	Surfing the Actomyosin Wave. Developmental Cell, 2004, 7, 285-286.	7.0	2
44	Coordinate Activation of Maternal Protein Degradation during the Egg-to-Embryo Transition in C. elegans. Developmental Cell, 2003, 5, 451-462.	7.0	135
45	PIE-1 is a bifunctional protein that regulates maternal and zygotic gene expression in the embryonic germ line of Caenorhabditis elegans. Genes and Development, 2001, 15, 1031-1040.	5.9	350
46	Polarization of the anteriorâ€“posterior axis of C. elegans is a microtubule-directed process. Nature, 2000, 408, 89-92.	27.8	170
47	Metaphase to Anaphase (mat) Transitionâ€“Defective Mutants inCaenorhabditis elegans. Journal of Cell Biology, 2000, 151, 1469-1482.	5.2	159
48	Repression of gene expression in the embryonic germ lineage of C. elegans. Nature, 1996, 382, 713-716.	27.8	299