

Melina Schuh

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

4,452
citations

186265

28
h-index

315739

38
g-index

41
all docs

41
docs citations

41
times ranked

4208
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Organization of MTOCs Replaces Centrosome Function during Acentrosomal Spindle Assembly in Live Mouse Oocytes. <i>Cell</i> , 2007, 130, 484-498.	28.9	480
2	A Method for the Acute and Rapid Degradation of Endogenous Proteins. <i>Cell</i> , 2017, 171, 1692-1706.e18.	28.9	342
3	A New Model for Asymmetric Spindle Positioning in Mouse Oocytes. <i>Current Biology</i> , 2008, 18, 1986-1992.	3.9	285
4	An actin-dependent mechanism for long-range vesicle transport. <i>Nature Cell Biology</i> , 2011, 13, 1431-1436.	10.3	275
5	Restarting life: fertilization and the transition from meiosis to mitosis. <i>Nature Reviews Molecular Cell Biology</i> , 2013, 14, 549-562.	37.0	243
6	Error-prone chromosome-mediated spindle assembly favors chromosome segregation defects in human oocytes. <i>Science</i> , 2015, 348, 1143-1147.	12.6	242
7	Chromosome errors in human eggs shape natural fertility over reproductive life span. <i>Science</i> , 2019, 365, 1466-1469.	12.6	239
8	Spire-Type Actin Nucleators Cooperate with Formin-2 to Drive Asymmetric Oocyte Division. <i>Current Biology</i> , 2011, 21, 955-960.	3.9	224
9	Resolution of Chiasmata in Oocytes Requires Separase-Mediated Proteolysis. <i>Cell</i> , 2006, 126, 135-146.	28.9	218
10	The transition from meiotic to mitotic spindle assembly is gradual during early mammalian development. <i>Journal of Cell Biology</i> , 2012, 198, 357-370.	5.2	182
11	Mechanisms of Aneuploidy in Human Eggs. <i>Trends in Cell Biology</i> , 2017, 27, 55-68.	7.9	171
12	Vesicles modulate an actin network for asymmetric spindle positioning. <i>Nature Cell Biology</i> , 2013, 15, 937-947.	10.3	145
13	A three-step MTOC fragmentation mechanism facilitates bipolar spindle assembly in mouse oocytes. <i>Nature Communications</i> , 2015, 6, 7217.	12.8	128
14	Actin protects mammalian eggs against chromosome segregation errors. <i>Science</i> , 2017, 357, .	12.6	127
15	A liquid-like spindle domain promotes acentrosomal spindle assembly in mammalian oocytes. <i>Science</i> , 2019, 364, .	12.6	120
16	Acute and rapid degradation of endogenous proteins by Trim-Away. <i>Nature Protocols</i> , 2018, 13, 2149-2175.	12.0	108
17	Sister kinetochore splitting and precocious disintegration of bivalents could explain the maternal age effect. <i>ELife</i> , 2015, 4, e11389.	6.0	102
18	Assembly and Positioning of the Oocyte Meiotic Spindle. <i>Annual Review of Cell and Developmental Biology</i> , 2018, 34, 381-403.	9.4	97

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19	Parental genome unification is highly error-prone in mammalian embryos. <i>Cell</i> , 2021, 184, 2860-2877.e22.	28.9	89
20	Live imaging RNAi screen reveals genes essential for meiosis in mammalian oocytes. <i>Nature</i> , 2015, 524, 239-242.	27.8	78
21	Spire and Formin 2 Synergize and Antagonize in Regulating Actin Assembly in Meiosis by a Ping-Pong Mechanism. <i>PLoS Biology</i> , 2014, 12, e1001795.	5.6	76
22	Meiotic Kinetochores Fragment into Multiple Lobes upon Cohesin Loss in Aging Eggs. <i>Current Biology</i> , 2019, 29, 3749-3765.e7.	3.9	65
23	The BTG4 and CAF1 complex prevents the spontaneous activation of eggs by deadenylating maternal mRNAs. <i>Open Biology</i> , 2016, 6, 160184.	3.6	61
24	Mechanism of spindle pole organization and instability in human oocytes. <i>Science</i> , 2022, 375, eabj3944.	12.6	55
25	Functions of actin in mouse oocytes at a glance. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	45
26	Two pathways regulate cortical granule translocation to prevent polyspermy in mouse oocytes. <i>Nature Communications</i> , 2016, 7, 13726.	12.8	43
27	Phase Separation during Germline Development. <i>Trends in Cell Biology</i> , 2021, 31, 254-268.	7.9	41
28	Two mechanisms drive pronuclear migration in mouse zygotes. <i>Nature Communications</i> , 2021, 12, 841.	12.8	38
29	Origins and mechanisms leading to aneuploidy in human eggs. <i>Prenatal Diagnosis</i> , 2021, 41, 620-630.	2.3	33
30	Aneuploidy in human eggs: contributions of the meiotic spindle. <i>Biochemical Society Transactions</i> , 2021, 49, 107-118.	3.4	31
31	The Phosphatase Dusp7 Drives Meiotic Resumption and Chromosome Alignment in Mouse Oocytes. <i>Cell Reports</i> , 2016, 17, 1426-1437.	6.4	18
32	The BCL-2 pathway preserves mammalian genome integrity by eliminating recombination-defective oocytes. <i>Nature Communications</i> , 2020, 11, 2598.	12.8	16
33	Error-Prone Chromosome-Mediated Spindle Assembly Favors Chromosome Segregation Defects in Human Oocytes. <i>Obstetrical and Gynecological Survey</i> , 2015, 70, 572-573.	0.4	6
34	Nuclear Envelope Breakdown: Actinâ€™ Quick to Tear Down the Wall. <i>Current Biology</i> , 2014, 24, R605-R607.	3.9	5
35	Actin Disassembly: How to Contract without Motors?. <i>Current Biology</i> , 2018, 28, R275-R277.	3.9	2
36	Double trouble at the beginning of life. <i>Science</i> , 2018, 361, 128-129.	12.6	2

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37	A microscopy-based approach for studying meiosis in live and fixed human oocytes. <i>Methods in Cell Biology</i> , 2018, 145, 315-333.	1.1	2
38	Taking a confident leap into uncertainty. <i>Nature Cell Biology</i> , 2018, 20, 1007-1007.	10.3	0