

# Deepak Adhikari

## List of Publications by Year in descending order

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32  
papers

3,063  
citations

331259

21  
h-index

454577

30  
g-index

32  
all docs

32  
docs citations

32  
times ranked

2810  
citing authors

#	ARTICLE	IF	CITATIONS
1	Oocyte-Specific Deletion of <i>Pten</i> Causes Premature Activation of the Primordial Follicle Pool. <i>Science</i> , 2008, 319, 611-613.	6.0	715
2	Molecular Mechanisms Underlying the Activation of Mammalian Primordial Follicles. <i>Endocrine Reviews</i> , 2009, 30, 438-464.	8.9	351
3	Tsc/mTORC1 signaling in oocytes governs the quiescence and activation of primordial follicles. <i>Human Molecular Genetics</i> , 2010, 19, 397-410.	1.4	289
4	PKD1 signaling in oocytes controls reproductive aging and lifespan by manipulating the survival of primordial follicles. <i>Human Molecular Genetics</i> , 2009, 18, 2813-2824.	1.4	219
5	Disruption of Tsc2 in oocytes leads to overactivation of the entire pool of primordial follicles. <i>Molecular Human Reproduction</i> , 2009, 15, 765-770.	1.3	190
6	Experimental evidence showing that no mitotically active female germline progenitors exist in postnatal mouse ovaries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12580-12585.	3.3	190
7	Cdk1, but not Cdk2, is the sole Cdk that is essential and sufficient to drive resumption of meiosis in mouse oocytes. <i>Human Molecular Genetics</i> , 2012, 21, 2476-2484.	1.4	119
8	The regulation of maturation promoting factor during prophase I arrest and meiotic entry in mammalian oocytes. <i>Molecular and Cellular Endocrinology</i> , 2014, 382, 480-487.	1.6	113
9	Oocyte-Specific Deletion of Pten in Mice Reveals a Stage-Specific Function of PTEN/PI3K Signaling in Oocytes in Controlling Follicular Activation. <i>PLoS ONE</i> , 2009, 4, e6186.	1.1	112
10	The Safe Use of a PTEN Inhibitor for the Activation of Dormant Mouse Primordial Follicles and Generation of Fertilizable Eggs. <i>PLoS ONE</i> , 2012, 7, e39034.	1.1	93
11	Pharmacological Inhibition of mTORC1 Prevents Over-Activation of the Primordial Follicle Pool in Response to Elevated PI3K Signaling. <i>PLoS ONE</i> , 2013, 8, e53810.	1.1	85
12	mTOR signaling in the control of activation of primordial follicles. <i>Cell Cycle</i> , 2010, 9, 1673-1674.	1.3	83
13	Genetically modified mouse models for premature ovarian failure (POF). <i>Molecular and Cellular Endocrinology</i> , 2010, 315, 1-10.	1.6	69
14	The spatio-temporal dynamics of mitochondrial membrane potential during oocyte maturation. <i>Molecular Human Reproduction</i> , 2019, 25, 695-705.	1.3	66
15	Insights into Gonadal Sex Differentiation Provided by Single-Cell Transcriptomics in the Chicken Embryo. <i>Cell Reports</i> , 2020, 31, 107491.	2.9	62
16	Mitochondria-targeted therapeutics, MitoQ and BGP-15, reverse aging-associated meiotic spindle defects in mouse and human oocytes. <i>Human Reproduction</i> , 2021, 36, 771-784.	0.4	54
17	Inhibitory phosphorylation of Cdk1 mediates prolonged prophase I arrest in female germ cells and is essential for female reproductive lifespan. <i>Cell Research</i> , 2016, 26, 1212-1225.	5.7	41
18	mTORC1 Signaling in Oocytes Is Dispensable for the Survival of Primordial Follicles and for Female Fertility. <i>PLoS ONE</i> , 2014, 9, e110491.	1.1	40

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19	Mastl is required for timely activation of APC/C in meiosis I and Cdk1 reactivation in meiosis II. <i>Journal of Cell Biology</i> , 2014, 206, 843-853.	2.3	31
20	Cyclin A2 modulates kinetochore-microtubule attachment in meiosis II. <i>Journal of Cell Biology</i> , 2017, 216, 3133-3143.	2.3	30
21	Cdk2 catalytic activity is essential for meiotic cell division <i>in vivo</i> . <i>Biochemical Journal</i> , 2016, 473, 2783-2798.	1.7	28
22	Oocyte mitochondria-key regulators of oocyte function and potential therapeutic targets for improving fertility. <i>Biology of Reproduction</i> , 2022, 106, 366-377.	1.2	27
23	Combating ovarian aging depends on the use of existing ovarian follicles, not on putative oogonial stem cells. <i>Reproduction</i> , 2013, 146, R229-R233.	1.1	14
24	Animal Models for Studying the In Vivo Functions of Cell Cycle CDKs. <i>Methods in Molecular Biology</i> , 2016, 1336, 155-166.	0.4	13
25	Depletion of oocyte dynamin-related protein 1 shows maternal-effect abnormalities in embryonic development. <i>Science Advances</i> , 2022, 8, .	4.7	9
26	Cdk1 drives meiosis and mitosis through two different mechanisms. <i>Cell Cycle</i> , 2012, 11, 2763-2764.	1.3	8
27	MASTL is essential for anaphase entry of proliferating primordial germ cells and establishment of female germ cells in mice. <i>Cell Discovery</i> , 2017, 3, 16052.	3.1	5
28	In Vitro Activation of Dormant Follicles for Fertility Preservation. <i>Advances in Experimental Medicine and Biology</i> , 2013, 761, 29-42.	0.8	3
29	HENMT1 is involved in the maintenance of normal female fertility in the mouse. <i>Molecular Human Reproduction</i> , 2021, 27, .	1.3	2
30	Mastl/PP2A regulate Cdk1 in oocyte maturation. <i>Oncotarget</i> , 2015, 6, 18734-18735.	0.8	2
31	Oocyte Meiotic Resumption Upon Puberty. , 2018, , 167-171.		0
32	Regulation of Quiescence and Activation of Oocyte Growth in Primordial Follicles. , 2013, , 49-62.		0