Sudhansu K Dey

List of Publications by Year
in descending order

Version: 2024-02-01

92 papers	12,167 citations	38742 50 h-index	40979 93 g-index
99 all docs	99 docs citations	99 times ranked	10903 citing authors

#	Article	IF	Citations
1	Preterm labor: One syndrome, many causes. Science, 2014, 345, 760-765.	12.6	1,478
2	Multiple Female Reproductive Failures in Cyclooxygenase 2â€"Deficient Mice. Cell, 1997, 91, 197-208.	28.9	1,307
3	Roadmap to embryo implantation: clues from mouse models. Nature Reviews Genetics, 2006, 7, 185-199.	16.3	1,070
4	Mechanisms of implantation: strategies for successful pregnancy. Nature Medicine, 2012, 18, 1754-1767.	30.7	999
5	Estrogen is a critical determinant that specifies the duration of the window of uterine receptivity for implantation. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 2963-2968.	7.1	449
6	Hoxa-10Regulates Uterine Stromal Cell Responsiveness to Progesterone during Implantation and Decidualization in the Mouse. Molecular Endocrinology, 1999, 13, 1005-1017.	3.7	271
7	Cell Type-Specific Localization of c-Myc Protein in the Mouse Uterus: Modulation by Steroid Hormones and Analysis of the Periimplantation Period*. Endocrinology, 1989, 125, 1683-1690.	2.8	228
8	Global gene expression analysis identifies molecular pathways distinguishing blastocyst dormancy and activation. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 10326-10331.	7.1	220
9	From The Cover: Cochaperone immunophilin FKBP52 is critical to uterine receptivity for embryo implantation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14326-14331.	7.1	214
10	Conditional Loss of Uterine Pten Unfailingly and Rapidly Induces Endometrial Cancer in Mice. Cancer Research, 2008, 68, 5619-5627.	0.9	209
11	Dysregulation of EGF Family of Growth Factors and COX-2 in the Uterus during the Preattachment and Attachment Reactions of the Blastocyst with the Luminal Epithelium Correlates with Implantation Failure in LIF- Deficient Mice. Molecular Endocrinology, 2000, 14, 1147-1161.	3.7	208
12	Jekyll and Hyde: Two Faces of Cannabinoid Signaling in Male and Female Fertility. Endocrine Reviews, 2006, 27, 427-448.	20.1	205
13	Uterine-specific p53 deficiency confers premature uterine senescence and promotes preterm birth in mice. Journal of Clinical Investigation, 2010, 120, 803-815.	8.2	201
14	Uncovering biologically significant lipid isomers with liquid chromatography, ion mobility spectrometry and mass spectrometry. Analyst, The, 2016, 141, 1649-1659.	3.5	196
15	Conditional Deletion of MSX Homeobox Genes in the Uterus Inhibits Blastocyst Implantation by Altering Uterine Receptivity. Developmental Cell, 2011, 21, 1014-1025.	7.0	187
16	Automated mass spectrometry imaging of over 2000 proteins from tissue sections at 100-Î¼m spatial resolution. Nature Communications, 2020, 11, 8.	12.8	178
17	Cyclooxygenase-2 Differentially Directs Uterine Angiogenesis during Implantation in Mice. Journal of Biological Chemistry, 2002, 277, 29260-29267.	3.4	152
18	Expression of matrix metalloproteinases and tissue inhibitors of metalloproteinases in the mouse uterus during the peri-implantation period. , 1997, 21, 44-54.		139

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19	The uterus is a potential site for anandamide synthesis and hydrolysis: Differential profiles of anandamide synthase and hydrolase activities in the mouse uterus during the periimplantation period. Molecular Reproduction and Development, 1996, 45, 183-192.	2.0	136
20	Spatial and temporal alterations of phospholipids determined by mass spectrometry during mouse embryo implantation. Journal of Lipid Research, 2009, 50, 2290-2298.	4.2	136
21	Evidence for coordinated interaction of cyclin D3 with p21 and cdk6 in directing the development of uterine stromal cell decidualization and polyploidy during implantation. Mechanisms of Development, 2002, 111, 99-113.	1.7	132
22	High spatial resolution imaging of biological tissues using nanospray desorption electrospray ionization mass spectrometry. Nature Protocols, 2019, 14, 3445-3470.	12.0	125
23	Zonula Occludens-1 and E-cadherin Are Coordinately Expressed in the Mouse Uterus with the Initiation of Implantation and Decidualization. Developmental Biology, 1999, 208, 488-501.	2.0	122
24	Neutrophils Oppose Uterine Epithelial Carcinogenesis via Debridement of Hypoxic Tumor Cells. Cancer Cell, 2015, 28, 785-799.	16.8	122
25	Cell-Type-Specific Expression of Transforming Growth Factor-Î± in the Mouse Uterus during the Peri-implantation Period1. Biology of Reproduction, 1991, 45, 365-372.	2.7	119
26	Uterine Msx-1 and Wnt4 Signaling Becomes Aberrant in Mice with the Loss of Leukemia Inhibitory Factor or Hoxa-10: Evidence for a Novel Cytokine-Homeobox-Wnt Signaling in Implantation. Molecular Endocrinology, 2004, 18, 1238-1250.	3.7	114
27	Entosis Allows Timely Elimination of the Luminal Epithelial Barrier for Embryo Implantation. Cell Reports, 2015, 11, 358-365.	6.4	112
28	FKBP52 deficiencyâ€“conferred uterine progesterone resistance is genetic background and pregnancy stage specific. Journal of Clinical Investigation, 2007, 117, 1824-1834.	8.2	112
29	Rescue of Female Infertility from the Loss of Cyclooxygenase-2 by Compensatory Up-regulation of Cyclooxygenase-1 Is a Function of Genetic Makeup. Journal of Biological Chemistry, 2004, 279, 10649-10658.	3.4	110
30	Heightened uterine mammalian target of rapamycin complex 1 (mTORC1) signaling provokes preterm birth in mice. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18073-18078.	7.1	109
31	Appropriate Crypt Formation in the Uterus for Embryo Homing and Implantation Requires Wnt5a-ROR Signaling. Cell Reports, 2014, 8, 382-392.	6.4	109
32	Coordination of Differential Effects of Primary Estrogen and Catecholestrogen on Two Distinct Targets Mediates Embryo Implantation in the Mouse**This work was supported, in part, by NIH Grant HD-12304 and as part of the National Cooperative Program on Markers of Uterine Receptivity for Blastocyst Implantation [NIH Grants HD-29968 (to S.K.D.), HD-35114 (to B.C.P.), and ES-07814 (to S.K.D.)]. A center grant in Reproductive Biology (HD-33994) and a center grant in Mental Retardation and Developmental Disabilit. Endocrinology, 1998, 139, 5235-5246.	2.8	101
33	Contribution of cyclooxygenaseâ€2 to liver regeneration after partial hepatectomy. FASEB Journal, 2001, 15, 2016-2018.	0.5	93
34	Proteomic Analysis Identifies Immunophilin FK506 Binding Protein 4 (FKBP52) as a Downstream Target of Hoxa10 in the Periimplantation Mouse Uterus. Molecular Endocrinology, 2005, 19, 683-697.	3.7	85
35	Cytosolic phospholipase A2alpha is crucial [correction of A2alpha deficiency is crucial] for 'on-time' embryo implantation that directs subsequent development. Development (Cambridge), 2002, 129, 2879-89.	2.5	85
36	Lactoferrin-iCre: A New Mouse Line to Study Uterine Epithelial Gene Function. Endocrinology, 2014, 155, 2718-2724.	2.8	78

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37	Differential Uterine Expression of Estrogen and Progesterone Receptors Correlates with Uterine Preparation for Implantation and Decidualization in the Mouse. Endocrinology, 1999, 140, 5310-5321.	2.8	75
38	Differential Spatiotemporal Regulation of Lactoferrin and Progesterone Receptor Genes in the Mouse Uterus by Primary Estrogen, Catechol Estrogen, and Xenoestrogen¹. Endocrinology, 1998, 139, 2905-2915.	2.8	72
39	Combinatory approaches prevent preterm birth profoundly exacerbated by gene-environment interactions. Journal of Clinical Investigation, 2013, 123, 4063-4075.	8.2	72
40	p53 coordinates decidual sestrin 2/AMPK/mTORC1 signaling to govern parturition timing. Journal of Clinical Investigation, 2016, 126, 2941-2954.	8.2	70
41	Endocannabinoid signaling directs differentiation of trophoblast cell lineages and placentation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16887-16892.	7.1	69
42	Endocannabinoid Signaling in Female Reproduction. ACS Chemical Neuroscience, 2012, 3, 349-355.	3.5	67
43	Kruppel-like factor 5 (KLF5) is critical for conferring uterine receptivity to implantation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1145-1150.	7.1	67
44	COX-2 compensation in the uterus of COX-1 deficient mice during the pre-implantation period. Molecular and Cellular Endocrinology, 1999, 150, 23-31.	3.2	65
45	Tridimensional visualization reveals direct communication between the embryo and glands critical for implantation. Nature Communications, 2018, 9, 603.	12.8	62
46	Dysregulation of EGF Family of Growth Factors and COX-2 in the Uterus during the Preattachment and Attachment Reactions of the Blastocyst with the Luminal Epithelium Correlates with Implantation Failure in LIF- Deficient Mice. Molecular Endocrinology, 2000, 14, 1147-1161.	3.7	62
47	Quantitative Mass Spectrometry Imaging of Prostaglandins as Silver Ion Adducts with Nanospray Desorption Electrospray Ionization. Analytical Chemistry, 2018, 90, 7246-7252.	6.5	61
48	Imaging and Analysis of Isomeric Unsaturated Lipids through Online Photochemical Derivatization of Carbonâ€“Carbon Double Bonds**. Angewandte Chemie - International Edition, 2021, 60, 7559-7563.	13.8	58
49	Stage-specific Integration of Maternal and Embryonic Peroxisome Proliferator-activated Receptor Î´ Signaling Is Critical to Pregnancy Success. Journal of Biological Chemistry, 2007, 282, 37770-37782.	3.4	55
50	Preterm labor in the absence of acute histologic chorioamnionitis is characterized by cellular senescence of the chorioamniotic membranes. American Journal of Obstetrics and Gynecology, 2017, 217, 592.e1-592.e17.	1.3	55
51	A new role for muscle segment homeobox genes in mammalian embryonic diapause. Open Biology, 2013, 3, 130035.	3.6	50
52	STAT3 accelerates uterine epithelial regeneration in a mouse model of decellularized uterine matrix transplantation. JCI Insight, 2016, 1, .	5.0	49
53	Three-dimensional imaging of lipids and metabolites in tissues by nanospray desorption electrospray ionization mass spectrometry. Analytical and Bioanalytical Chemistry, 2015, 407, 2063-2071.	3.7	47
54	Planar cell polarity signaling in the uterus directs appropriate positioning of the crypt for embryo implantation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E8079-E8088.	7.1	44

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55	Recombineering-based dissection of flanking and paralogous Hox gene functions in mouse reproductive tracts. Development (Cambridge), 2013, 140, 2942-2952.	2.5	43
56	Cadence of procreation: Orchestrating embryoâ€“uterine interactions. Seminars in Cell and Developmental Biology, 2014, 34, 56-64.	5.0	43
57	Primary decidual zone formation requires Scribble for pregnancy success in mice. Nature Communications, 2019, 10, 5425.	12.8	42
58	Crosstalk between PKCÎ± and PI3K/AKT Signaling Is Tumor Suppressive in the Endometrium. Cell Reports, 2018, 24, 655-669.	6.4	39
59	Silencing or Amplification of Endocannabinoid Signaling in Blastocysts via CB1 Compromises Trophoblast Cell Migration. Journal of Biological Chemistry, 2012, 287, 32288-32297.	3.4	38
60	Endothelial Cells in the Decidual Bed Are Potential Therapeutic Targets for Preterm Birth Prevention. Cell Reports, 2019, 27, 1755-1768.e4.	6.4	31
61	High-resolution imaging and identification of biomolecules using Nano-DESI coupled to ion mobility spectrometry. Analytica Chimica Acta, 2021, 1186, 339085.	5.4	31
62	Sustained Endocannabinoid Signaling Compromises Decidual Function and Promotes Inflammation-induced Preterm Birth. Journal of Biological Chemistry, 2016, 291, 8231-8240.	3.4	30
63	Cannabinoid receptor 1/2 doubleâ€knockout mice develop epilepsy. Epilepsia, 2017, 58, e162-e166.	5.1	27
64	Ovarian LGR5 is critical for successful pregnancy. FASEB Journal, 2014, 28, 2380-2389.	0.5	26
65	Uterine deficiency of high-mobility group box-1 (HMGB1) protein causes implantation defects and adverse pregnancy outcomes. Cell Death and Differentiation, 2020, 27, 1489-1504.	11.2	26
66	An Integrated Microfluidic Probe for Mass Spectrometry Imaging of Biological Samples**. Angewandte Chemie - International Edition, 2020, 59, 22388-22391.	13.8	26
67	Imaging and Analysis of Isomeric Unsaturated Lipids through Online Photochemical Derivatization of Carbonâ€“Carbon Double Bonds**. Angewandte Chemie, 2021, 133, 7637-7641.	2.0	24
68	Uterine inactivation of muscle segment homeobox (Msx) genes alters epithelial cell junction proteins during embryo implantation. FASEB Journal, 2016, 30, 1425-1435.	0.5	22
69	The uterine epithelial loss of Pten is inefficient to induce endometrial cancer with intact stromal Pten. PLoS Genetics, 2018, 14, e1007630.	3.5	21
70	Uterine Decidual Response Occurs in Estrogen Receptor-Â-Deficient Mice. Endocrinology, 1999, 140, 2704-2710.	2.8	19
71	Muscle Segment Homeobox Genes Direct Embryonic Diapause by Limiting Inflammation in the Uterus*. Journal of Biological Chemistry, 2015, 290, 15337-15349.	3.4	18
72	Differential Spatiotemporal Regulation of Lactoferrin and Progesterone Receptor Genes in the Mouse Uterus by Primary Estrogen, Catechol Estrogen, and Xenoestrogen. Endocrinology, 1998, 139, 2905-2915.	2.8	18

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73	Mammalian Target of Rapamycin Complex 1 and Cyclooxygenase 2 Pathways Cooperatively Exacerbate Endometrial Cancer. American Journal of Pathology, 2014, 184, 2390-2402.	3.8	17
74	Trp53 deficient mice predisposed to preterm birth display region-specific lipid alterations at the embryo implantation site. Scientific Reports, 2016, 6, 33023.	3.3	17
75	Expression of Heparin/Heparan Sulfate Interacting Protein/Ribosomal Protein L29 During the Estrous Cycle and Early Pregnancy in the Mouse1. Biology of Reproduction, 2001, 64, 1165-1175.	2.7	16
76	High-Throughput Nano-DESI Mass Spectrometry Imaging of Biological Tissues Using an Integrated Microfluidic Probe. Analytical Chemistry, 2022, 94, 9690-9696.	6.5	16
77	Reduced homeobox protein MSX1 in human endometrial tissue is linked to infertility. Human Reproduction, 2016, 31, 2042-2050.	0.9	15
78	Mice Missing Cnr1 and Cnr2 Show Implantation Defects. Endocrinology, 2019, 160, 938-946.	2.8	14
79	Uterine preparation for implantation in the mouse is associated with coordinate expression of estrogen-responsive finger protein and estrogen receptor. Molecular Reproduction and Development, 1997, 46, 499-506.	2.0	12
80	Heparin-Binding EGF-Like Growth Factor Modulation by Antiprogestin and CG in the Baboon (Papio) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.6	11
81	Reflections on Rodent Implantation. Advances in Anatomy, Embryology and Cell Biology, 2015, 216, 69-85.	1.6	11
82	Metformin attenuates susceptibility to inflammation-induced preterm birth in mice with higher endocannabinoid levelsâ€. Biology of Reproduction, 2018, 98, 208-217.	2.7	10
83	Pregnancy success in mice requires appropriate cannabinoid receptor signaling for primary decidua formation. ELife, 2020, 9, .	6.0	9
84	In situ imaging reveals disparity between prostaglandin localization and abundance of prostaglandin synthases. Communications Biology, 2021, 4, 966.	4.4	8
85	Hunting for Fox(A2): Dual roles in female fertility. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1226-1228.	7.1	5
86	An Integrated Microfluidic Probe for Mass Spectrometry Imaging of Biological Samples**. Angewandte Chemie, 2020, 132, 22574-22577.	2.0	4
87	Cannabinoid and planar cell polarity signaling converges to direct placentation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	4
88	Extragonadal oocytes residing in the mouse ovarian hilum contribute to fertilityâ€. Biology of Reproduction, 2017, 96, 1060-1070.	2.7	3
89	Expression of matrix metalloproteinases and tissue inhibitors of metalloproteinases in the mouse uterus during the periâ€implantation period. Genesis, 1997, 21, 44-54.	2.1	2
90	Heparin-Binding EGF-Like Growth Factor Modulation by Antiprogestin and CG in the Baboon (Papio) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.6	2

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91	Scribble promotes alveologenesis in the pregnant mammary gland for milk production. Reproduction, 2020, 159, 719-731.	2.6	2
92	Innentitelbild: Imaging and Analysis of Isomeric Unsaturated Lipids through Online Photochemical Derivatization of Carbonâ€“Carbon Double Bonds (Angew. Chem. 14/2021). Angewandte Chemie, 2021, 133, 7526-7526.	2.0	0