Nuria Montserrat

List of Publications by Year
in descending order

83 papers	8,482 citations	87888 38 h-index	71685 76 g-index
89 all docs	89 docs citations	89 times ranked	14898 citing authors

#	Article	IF	Citations
1	Inhibition of SARS-CoV-2 Infections in Engineered Human Tissues Using Clinical-Grade Soluble Human ACE2. Cell, 2020, 181, 905-913.e7.	28.9	1,827
2	Somatic coding mutations in human induced pluripotent stem cells. Nature, 2011, 471, 63-67.	27.8	1,147
3	Generation of Induced Pluripotent Stem Cells from Human Cord Blood Using OCT4 and SOX2. Cell Stem Cell, 2009, 5, 353-357.	11.1	392
4	Human recombinant soluble ACE2 in severe COVID-19. Lancet Respiratory Medicine,the, 2020, 8, 1154-1158.	10.7	340
5	Directed differentiation of human pluripotent cells to ureteric bud kidney progenitor-like cells. Nature Cell Biology, 2013, 15, 1507-1515.	10.3	316
6	Progressive degeneration of human neural stem cells caused by pathogenic LRRK2. Nature, 2012, 491, 603-607.	27.8	312
7	Selective Elimination of Mitochondrial Mutations in the Germline by Genome Editing. Cell, 2015, 161, 459-469.	28.9	245
8	Active superelasticity in three-dimensional epithelia of controlled shape. Nature, 2018, 563, 203-208.	27.8	223
9	Forty years of IVF. Fertility and Sterility, 2018, 110, 185-324.e5.	1.0	211
10	Fine tuning the extracellular environment accelerates the derivation of kidney organoids from human pluripotent stem cells. Nature Materials, 2019, 18, 397-405.	27.5	201
11	InÂVivo Activation of a Conserved MicroRNA Program Induces Mammalian Heart Regeneration. Cell Stem Cell, 2014, 15, 589-604.	11.1	178
12	Coordinated regulation of the GH/IGF system genes during refeeding in rainbow trout (Oncorhynchus) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.6	177
13	Complete Meiosis from Human Induced Pluripotent Stem Cells. Stem Cells, 2011, 29, 1186-1195.	3.2	177
14	Identification of a specific reprogramming-associated epigenetic signature in human induced pluripotent stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16196-16201.	7.1	152
15	Rethinking organoid technology through bioengineering. Nature Materials, 2021, 20, 145-155.	27.5	150
16	Conversion of human fibroblasts to angioblast-like progenitor cells. Nature Methods, 2013, 10, 77-83.	19.0	140
17	Reprogramming of Human Fibroblasts to Pluripotency with Lineage Specifiers. Cell Stem Cell, 2013, 13, 341-350.	11.1	137
18	Role of insulin, insulin-like growth factors, and muscle regulatory factors in the compensatory growth of the trout (Oncorhynchus mykiss). General and Comparative Endocrinology, 2007, 150, 462-472.	1.8	115

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19	Hypoxia Drives Breast Tumor Malignancy through a TETâ€"TNFÎ±â€"p38â€"MAPK Signaling Axis. Cancer Research, 2015, 75, 3912-3924.	0.9	108
20	Modelling Fanconi anemia pathogenesis and therapeutics using integration-free patient-derived iPSCs. Nature Communications, 2014, 5, 4330.	12.8	102
21	Metabolic and mitogenic effects of IGF-II in rainbow trout (Oncorhynchus mykiss) myocytes in culture and the role of IGF-II in the PI3K/Akt and MAPK signalling pathways. General and Comparative Endocrinology, 2008, 157, 116-124.	1.8	97
22	Generation of induced pluripotent stem cells from human cord blood cells with only two factors: Oct4 and Sox2. Nature Protocols, 2010, 5, 811-820.	12.0	94
23	The Nuclear Receptor ESRRA Protects from Kidney Disease by Coupling Metabolism and Differentiation. Cell Metabolism, 2021, 33, 379-394.e8.	16.2	93
24	Human soluble ACE2 improves the effect of remdesivir in SARSâ€CoVâ€2 infection. EMBO Molecular Medicine, 2021, 13, e13426.	6.9	87
25	Generation of Pig iPS Cells: A Model for Cell Therapy. Journal of Cardiovascular Translational Research, 2011, 4, 121-130.	2.4	84
26	Repression of E-cadherin by SNAIL, ZEB1, and TWIST in invasive ductal carcinomas of the breast: a cooperative effort?. Human Pathology, 2011, 42, 103-110.	2.0	76
27	Effects of follicle stimulating hormone on estradiol-17Î² production and P-450 aromatase (CYP19) activity and mRNA expression in brown trout vitellogenic ovarian follicles in vitro. General and Comparative Endocrinology, 2004, 137, 123-131.	1.8	75
28	Epithelial to mesenchymal transition in early stage endometrioid endometrial carcinoma. Human Pathology, 2012, 43, 632-643.	2.0	75
29	Direct conversion of human fibroblasts into retinal pigment epithelium-like cells by defined factors. Protein and Cell, 2014, 5, 48-58.	11.0	69
30	Simple Generation of Human Induced Pluripotent Stem Cells Using Poly-Î²-amino Esters As the Non-viral Gene Delivery System. Journal of Biological Chemistry, 2011, 286, 12417-12428.	3.4	68
31	Dedifferentiation, Transdifferentiation, and Reprogramming: Future Directions in Regenerative Medicine. Seminars in Reproductive Medicine, 2013, 31, 082-094.	1.1	65
32	Generation of Induced Pluripotent Stem Cells from Human Renal Proximal Tubular Cells with Only Two Transcription Factors, Oct4 and Sox2. Journal of Biological Chemistry, 2012, 287, 24131-24138.	3.4	59
33	Analysis of protein-coding mutations in hiPSCs and their possible role during somatic cell reprogramming. Nature Communications, 2013, 4, 1382.	12.8	58
34	IGF-I binding and receptor signal transduction in primary cell culture of muscle cells of gilthead sea bream: changes throughout in vitro development. Cell and Tissue Research, 2007, 330, 503-513.	2.9	56
35	Generation of Feeder-Free Pig Induced Pluripotent Stem Cells without Pou5f1. Cell Transplantation, 2012, 21, 815-825.	2.5	54
36	Myocardial commitment from human pluripotent stem cells: Rapid production of human heart grafts. Biomaterials, 2016, 98, 64-78.	11.4	52

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37	Distinct role of insulin and IGF-I and its receptors in white skeletal muscle during the compensatory growth of gilthead sea bream (Sparus aurata). Aquaculture, 2007, 267, 188-198.	3.5	49
38	Bacterial lipopolysaccharide induces apoptosis in the trout ovary. Reproductive Biology and Endocrinology, 2006, 4, 46.	3.3	43
39	ACE2 is the critical in vivo receptor for SARS-CoV-2 in a novel COVID-19 mouse model with TNF- and IFNÎ³-driven immunopathology. ELife, 2022, 11, .	6.0	42
40	Metabolic Effects of Insulin and IGFs on Gilthead Sea Bream (Sparus aurata) Muscle Cells. Frontiers in Endocrinology, 2012, 3, 55.	3.5	41
41	A diabetic milieu increases ACE2 expression and cellular susceptibility to SARS-CoV-2 infections in human kidney organoids and patient cells. Cell Metabolism, 2022, 34, 857-873.e9.	16.2	40
42	Bioelectronic Recordings of Cardiomyocytes with Accumulation Mode Electrolyte Gated Organic Field Effect Transistors. Biosensors and Bioelectronics, 2020, 150, 111844.	10.1	36
43	Clinical grade <scp>ACE2</scp> as a universal agent to block <scp>SARSâ€CoV</scp> â€2 variants. EMBO Molecular Medicine, 2022, 14, .	6.9	35
44	Regenerative strategies for kidney engineering. FEBS Journal, 2016, 283, 3303-3324.	4.7	34
45	Roadblocks in the Path of iPSC to the Clinic. Current Transplantation Reports, 2018, 5, 14-18.	2.0	30
46	Global DNA methylation and transcriptional analyses of human ESC-derived cardiomyocytes. Protein and Cell, 2014, 5, 59-68.	11.0	26
47	Modulation of the steroidogenic activity of luteinizing hormone by insulin and insulin-like growth factor-I through interaction with the cAMP-dependent protein kinase signaling pathway in the trout ovary. Molecular and Cellular Endocrinology, 2005, 229, 49-56.	3.2	25
48	Contribution of in vitro myocytes studies to understanding fish muscle physiology. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2016, 199, 67-73.	1.6	24
49	Efficient Delivery and Functional Expression of Transfected Modified mRNA in Human Embryonic Stem Cell-derived Retinal Pigmented Epithelial Cells. Journal of Biological Chemistry, 2015, 290, 5661-5672.	3.4	22
50	Generation of a Drug-inducible Reporter System to Study Cell Reprogramming in Human Cells. Journal of Biological Chemistry, 2012, 287, 40767-40778.	3.4	17
51	Modeling epigenetic modifications in renal development and disease with organoids and genome editing. DMM Disease Models and Mechanisms, 2018, 11, .	2.4	17
52	Principles for the design of multicellular engineered living systems. APL Bioengineering, 2022, 6, 010903.	6.2	17
53	The New Generation hDHODH Inhibitor MEDS433 Hinders the In Vitro Replication of SARS-CoV-2 and Other Human Coronaviruses. Microorganisms, 2021, 9, 1731.	3.6	16
54	Mcad-mediated intercellular interactions activate satellite cell division. Journal of Cell Science, 2013, 126, 5116-31.	2.0	15

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55	The emergence of regenerative medicine in organ transplantation: 1st European Cell Therapy and Organ Regeneration Section meeting. Transplant International, 2020, 33, 833-840.	1.6	15
56	Multi-cellular engineered living systems: building a community around responsible research on emergence. Biofabrication, 2019, 11, 043001.	7.1	13
57	Direct reprogramming of porcine fibroblasts to neural progenitor cells. Protein and Cell, 2014, 5, 4-7.	11.0	12
58	Studying Kidney Disease Using Tissue and Genome Engineering in Human Pluripotent Stem Cells. Nephron, 2018, 138, 48-59.	1.8	10
59	Editorial: changing of the guard at Transplant International. Transplant International, 2021, 34, 609-609.	1.6	10
60	Miniâ€organs forum: how to advance organoid technology to organ transplant community. Transplant International, 2021, 34, 1588-1593.	1.6	10
61	Accumulation of instability in serial differentiation and reprogramming of parthenogenetic human cells. Human Molecular Genetics, 2012, 21, 3366-3373.	2.9	9
62	At the Heart of Genome Editing and Cardiovascular Diseases. Circulation Research, 2018, 123, 221-223.	4.5	6
63	Direct conversion of human fibroblasts into retinal pigment epithelium-like cells by defined factors. Protein and Cell, 2014, 5, 48.	11.0	6
64	Cardiosphere-derived cells for heart regeneration. Lancet, The, 2012, 379, 2425-2426.	13.7	5
65	Non-coding microRNAs for cardiac regeneration: Exploring novel alternatives to induce heart healing. Non-coding RNA Research, 2017, 2, 93-99.	4.6	5
66	Transplantation Induces Profound Changes in the Transcriptional Asset of Hematopoietic Stem Cells: Identification of Specific Signatures Using Machine Learning Techniques. Journal of Clinical Medicine, 2020, 9, 1670.	2.4	4
67	â€œHuman iPSC-derived kidney organoids towards clinical implementationsâ€• Current Opinion in Biomedical Engineering, 2021, 20, 100346.	3.4	4
68	Task force groups of Transplant International: working together to globally connect the transplant community of tomorrow. Transplant International, 2021, 34, 767-768.	1.6	3
69	The power of online tools for dissemination: social media, visual abstract, and beyond. Transplant International, 2021, 34, 1174-1176.	1.6	3
70	Global DNA methylation and transcriptional analyses of human ESC-derived cardiomyocytes. Protein and Cell, 2013, 5, 59.	11.0	3
71	Transplant International: a new beginning. Transplant International, 2021, 34, 1586-1587.	1.6	2
72	Directed Differentiation of Human Pluripotent Stem Cells for the Generation of High-Order Kidney Organoids. Methods in Molecular Biology, 2021, 2258, 171-192.	0.9	2

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73	Editorial: Transplant International Goes for GOLD!. Transplant International, 2022, 36, 10340.	1.6	2
74	Understanding the molecular basis for cardiomyocyte cell cycle regulation: new insights in cardiac regeneration after injury?. Expert Review of Cardiovascular Therapy, 2010, 8, 1043-1045.	1.5	1
75	Application of Gene-Editing Technologies in Embryos and Their Potential for Gene Therapy. , 2019, , 659-676.		1
76	Tâ€•and Bâ€cell therapy in solid organ transplantation: current evidence and future expectations. Transplant International, 2021, 34, 1594-1606.	1.6	1
77	Dissecting nephron morphogenesis using kidney organoids from human pluripotent stem cells. Current Opinion in Genetics and Development, 2022, 72, 22-29.	3.3	1
78	Research on Skeletal Muscle Diseases Using Pluripotent Stem Cells. , 0, , .		0
79	Lineage Reprogramming Toward Kidney Regeneration. , 2017, , 1167-1175.		0
80	Gene Editing Nuclear and Mitochondrial DNA. , 2018, , 409-414.		0
81	M-cadherin-mediated intercellular interactions activate satellite cell division. Development (Cambridge), 2013, 140, e2407-e2407.	2.5	0
82	Pluripotent Stem Cells and Skeletal Muscle Differentiation: Challenges and Immediate Applications. , 2017, , 1-35.		0
83	Editorial: Rubies for ESOT!. Transplant International, 2022, 35, 10529.	1.6	0