Mark D Lessard

List of Publications by Year
in descending order

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33	2,377	394421	454955
papers	citations	19 h-index	30 g-index

37	37	37	3907
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Three-dimensional subâ€“100 nm resolution fluorescence microscopy of thick samples. Nature Methods, 2008, 5, 527-529.	19.0	753
2	p63+Krt5+ distal airway stem cells are essential for lung regeneration. Nature, 2015, 517, 616-620.	27.8	433
3	Ultra-High Resolution 3D Imaging of Whole Cells. Cell, 2016, 166, 1028-1040.	28.9	247
4	Centriolar Association of ALMS1 and Likely Centrosomal Functions of the ALMS Motifâ€“containing Proteins C10orf90 and KIAA1731. Molecular Biology of the Cell, 2010, 21, 3617-3629.	2.1	97
5	Nanoscale subcellular architecture revealed by multicolor three-dimensional salvaged fluorescence imaging. Nature Methods, 2020, 17, 225-231.	19.0	95
6	Mitochondrial oxidative phosphorylation and energetic status are reflected by morphology of mitochondrial network in INS-1E and HEP-G2 cells viewed by 4Pi microscopy. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 834-846.	1.0	89
7	Assessing photodamage in live-cell STED microscopy. Nature Methods, 2018, 15, 755-756.	19.0	79
8	Tissue refractometry using Hilbert phase microscopy. Optics Letters, 2007, 32, 3522.	3.3	67
9	4Pi microscopy reveals an impaired three-dimensional mitochondrial network of pancreatic islet Î²-cells, an experimental model of type-2 diabetes. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1327-1341.	1.0	55
10	A novel physiological role for ARF1 in the formation of bidirectional tubules from the Golgi. Molecular Biology of the Cell, 2017, 28, 1676-1687.	2.1	55
11	Nonablative neonatal marrow transplantation attenuates functional and physical defects of Î²-glucuronidase deficiency. Blood, 2001, 97, 1498-1504.	1.4	47
12	Three-dimensional adaptive optical nanoscopy for thick specimen imaging at sub-50-nm resolution. Nature Methods, 2021, 18, 688-693.	19.0	39
13	3D mapping of nanoscale crosslink heterogeneities in microgels. Materials Horizons, 2018, 5, 1130-1136.	12.2	37
14	Hypoxic HepG2 cell adaptation decreases ATP synthase dimers and ATP production in inflated cristae by mitofilin downâ€regulation concomitant to MICOS clustering. FASEB Journal, 2016, 30, 1941-1957.	0.5	35
15	Activation-Induced Cytidine Deaminase-Initiated Off-Target DNA Breaks Are Detected and Resolved during S Phase. Journal of Immunology, 2012, 189, 2374-2382.	0.8	30
16	Implementation of a 4Pi-SMS super-resolution microscope. Nature Protocols, 2021, 16, 677-727.	12.0	29
17	Early Onset of Lysosomal Storage Disease in a Murine Model of Mucopolysaccharidosis Type VII: Undegraded Substrate Accumulates in Many Tissues in the Fetus and Very Young MPS VII Mouse. Pediatric and Developmental Pathology, 2005, 8, 453-462.	1.0	25
18	Precision analysis of mutant U2AF1 activity reveals deployment of stress granules in myeloid malignancies. Molecular Cell, 2022, 82, 1107-1122.e7.	9.7	23

#	Article	IF	Citations
19	A new approach for the study of the chemical composition of bordered pit membranes: 4Pi and confocal laser scanning microscopy. American Journal of Botany, 2013, 100, 1751-1756.	1.7	22
20	In Utero Fetal Liver Cell Transplantation without Toxic Irradiation Alleviates Lysosomal Storage in Mice with Mucopolysaccharidosis Type VII. Blood Cells, Molecules, and Diseases, 2001, 27, 861-873.	1.4	21
21	Electrocardiographic and other cardiac anomalies in Â-glucuronidase-null mice corrected by nonablative neonatal marrow transplantation. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 603-608.	7.1	14
22	Donor cell replacement in mice transplanted in utero is limited by immune-independent mechanisms. Blood Cells, Molecules, and Diseases, 2003, 31, 291-297.	1.4	12
23	Successful Allogeneic Neonatal Bone Marrow Transplantation Devoid of Myeloablation Requires Costimulatory Blockade. Journal of Immunology, 2003, 171, 3270-3277.	0.8	12
24	Distribution of mitochondrial DNA nucleoids inside the linear tubules vs. bulk parts of mitochondrial network as visualized by 4Pi microscopy. Journal of Bioenergetics and Biomembranes, 2015, 47, 255-263.	2.3	12
25	Transplanted ER-MP12hi20â^'58med/hi myeloid progenitors produce resident macrophages from marrow that are therapeutic for lysosomal storage disease. Blood Cells, Molecules, and Diseases, 2004, 32, 199-213.	1.4	8
26	The Impact of Entropy on the Spatial Organization of Synaptonemal Complexes within the Cell Nucleus. PLoS ONE, 2012, 7, e36282.	2.5	7
27	3-Dimensional histological reconstruction and imaging of the murine pancreas. Mammalian Genome, 2014, 25, 539-548.	2.2	5
28	Attenuation of murine lysosomal storage disease by allogeneic neonatal bone marrow transplantation using costimulatory blockade and donor lymphocyte infusion without myeloablation. Clinical Immunology, 2006, 119, 166-179.	3.2	4
29	Delayed administration of carrier marrow can decrease competition on donor stem cells during engraftment and maintain radioprotection of the host. Experimental Hematology, 2002, 30, 837-845.	0.4	3
30	Dispersal of Therapeutic Donor Cells throughout the Brain of Mice with Lysosomal Storage Disease Occurs Following in Utero Transplantation of Fetal-Derived Neuronal Stem Cells.. Blood, 2004, 104, 247-247.	1.4	2
31	Bone Marrow Expressing a Diabetes Resistance MHC Class II Allele: Diabetes Deviation by Chronic Immune Stimulation. Novartis Foundation Symposium, 2008, 292, 32-49.	1.1	0
32	Treatment of Neurological Dysfunction in MPS VII and Batten Disease by Transplantation of Lentivirally Transduced Neuronal Stem Cells Cultured from Hematopoietic Tissue.. Blood, 2005, 106, 1284-1284.	1.4	0
33	U2AF1 Mutations Enhance Stress Granule Response in Myeloid Malignancies. Blood, 2021, 138, 321-321.	1.4	0