

Robert F Bonner

List of Publications by Year in descending order

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37
papers

4,627
citations

279798

23
h-index

361022

35
g-index

37
all docs

37
docs citations

37
times ranked

3955
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser Capture Microdissection. <i>Science</i> , 1996, 274, 998-1001.	12.6	2,352
2	Laser-capture microdissection: opening the microscopic frontier to molecular analysis. <i>Trends in Genetics</i> , 1998, 14, 272-276.	6.7	436
3	Post-analysis follow-up and validation of microarray experiments. <i>Nature Genetics</i> , 2002, 32, 509-514.	21.4	397
4	Periodic Microcirculatory Flow in Patients with Sickle-Cell Disease. <i>New England Journal of Medicine</i> , 1984, 311, 1534-1538.	27.0	146
5	Intraoperative measurement of cortical blood flow adjacent to cerebral AVM using laser Doppler velocimetry. <i>Journal of Neurosurgery</i> , 1987, 66, 396-399.	1.6	130
6	Principles of Laser-Doppler Flowmetry. <i>Developments in Cardiovascular Medicine</i> , 1990, , 17-45.	0.1	125
7	Human arterial surface fluorescence: Atherosclerotic plaque identification and effects of laser atheroma ablation. <i>Journal of the American College of Cardiology</i> , 1988, 12, 94-102.	2.8	111
8	Statistics of Penetration Depth of Photons Re-emitted from Irradiated Tissue. <i>Journal of Modern Optics</i> , 1989, 36, 349-359.	1.3	107
9	Molecular Profiling of Clinical Tissue Specimens. <i>American Journal of Pathology</i> , 2000, 156, 1109-1115.	3.8	84
10	Expression profiling during ocular development identifies 2 <i>Nov</i> genes with a critical role in optic fissure closure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1462-1467.	7.1	67
11	Histological staining methods preparatory to laser capture microdissection significantly affect the integrity of the cellular RNA. <i>BMC Genomics</i> , 2006, 7, 97.	2.8	66
12	Threshold for Retinal Damage Associated with the use of High-Power Neodymium-Yag Lasers in the Vitreous. <i>American Journal of Ophthalmology</i> , 1983, 96, 153-159.	3.3	54
13	Molecular Profiling of Clinical Tissue Specimens. <i>Journal of Molecular Diagnostics</i> , 2000, 2, 60-66.	2.8	54
14	Expression Microdissection. <i>Diagnostic Molecular Pathology</i> , 2004, 13, 207-212.	2.1	54
15	Retinal Irradiance from Vitrectomy Endoilluminators. <i>American Journal of Ophthalmology</i> , 1982, 94, 26-29.	3.3	47
16	A Preservation Method That Allows Recovery of Intact RNA from Tissues Dissected by Laser Capture Microdissection. <i>Analytical Biochemistry</i> , 2002, 300, 139-145.	2.4	38
17	Phototransection of Vitreal Membranes with the Carbon Dioxide Laser in Rabbits. <i>Ophthalmology</i> , 1983, 90, 563-568.	5.2	37
18	Tumor-associated endothelial cells display GSTP1 and RARbeta2 promoter methylation in human prostate cancer. <i>Journal of Translational Medicine</i> , 2006, 4, 13.	4.4	36

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19	The Relationship of Laser Doppler Skin Blood Flow Measurements to the Cutaneous Microvascular Anatomy. <i>Microvascular Research</i> , 1998, 55, 3-13.	2.5	35
20	Visible-light photon migration through myocardium in vivo. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999, 277, H698-H704.	3.2	34
21	In Vivo human atherosclerotic plaque recognition by laser-excited fluorescence spectroscopy. <i>Journal of the American College of Cardiology</i> , 1991, 17, 160-168.	2.8	30
22	Expression microdissection adapted to commercial laser dissection instruments. <i>Nature Protocols</i> , 2011, 6, 457-467.	12.0	30
23	Thermal modeling of Laser Capture Microdissection. <i>Applied Optics</i> , 1998, 37, 7378.	2.1	29
24	Measurement of multiple microcirculatory parameters in human nasal mucosa using laser-doppler velocimetry. <i>Microvascular Research</i> , 1989, 38, 175-185.	2.5	21
25	A model of spectral filtering to reduce photochemical damage in age-related macular degeneration. <i>Transactions of the American Ophthalmological Society</i> , 2004, 102, 83-93; discussion 93-5.	1.4	16
26	The Microvascular Composition of the Healing Wound Compared at Skin Sites with Nutritive versus Arteriovenous Perfusion. <i>Journal of Surgical Research</i> , 1998, 80, 373-379.	1.6	14
27	Laser Sources for Angioplasty. <i>Developments in Cardiovascular Medicine</i> , 1990, , 31-44.	0.1	12
28	Yellow Filter to Decrease the Risk of Light Damage to the Retina During Vitrectomy. <i>American Journal of Ophthalmology</i> , 1982, 94, 677.	3.3	11
29	A comparison of the cutaneous microvascular properties of the Spontaneously Hypertensive rat and the Wistar-Kyoto rat. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 1999, 122, 399-406.	1.8	11
30	Immunoguided Microdissection Techniques. <i>Methods in Molecular Biology</i> , 2011, 755, 57-66.	0.9	10
31	Assessment of Gene Expression in Head and Neck Carcinoma Using Laser Capture Microdissection and Real-Time Reverse Transcription Polymerase Chain Reaction. <i>Laryngoscope</i> , 2004, 114, 2123-2128.	2.0	7
32	Nonlinear gene cluster analysis with labeling for microarray gene expression data in organ development. <i>BMC Proceedings</i> , 2011, 5, S3.	1.6	7
33	An instrument for performing laser capture microdissection of single cells. <i>Review of Scientific Instruments</i> , 1999, 70, 4377-4385.	1.3	5
34	Modeling Photo-Bleaching Kinetics to Create High Resolution Maps of Rod Rhodopsin in the Human Retina. <i>PLoS ONE</i> , 2015, 10, e0131881.	2.5	5
35	Analysis of Temporal-spatial Co-variation within Gene Expression Microarray Data in an Organogenesis Model. <i>Lecture Notes in Computer Science</i> , 2010, , 38-49.	1.3	4
36	A Random Walk Theory of Time-Resolved Optical Absorption Spectroscopy in Tissue. , 1989, , 11-23.		4

#	ARTICLE	IF	CITATIONS
37	Laser Capture Microdissection (LCM) and the Future of Molecular Pathology. , 1998, , .		1