Steven Bassnett

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6385001/publications.pdf

Version: 2024-02-01

85 papers	4,740 citations	101543 36 h-index	106344 65 g-index
87 all docs	87 docs citations	87 times ranked	2539 citing authors

#	Article	IF	Citations
1	Biological glass: structural determinants of eye lens transparency. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 1250-1264.	4.0	254
2	Mutations in the founder of the MIP gene family underlie cataract development in the mouse. Nature Genetics, 1996, 12, 212-215.	21.4	248
3	Lens Organelle Degradation. Experimental Eye Research, 2002, 74, 1-6.	2.6	238
4	Coincident loss of mitochondria and nuclei during lens fiber cell differentiation. Developmental Dynamics, 1992, 194, 85-93.	1.8	196
5	On the mechanism of organelle degradation in the vertebrate lens. Experimental Eye Research, 2009, 88, 133-139.	2.6	193
6	Chromatin Degradation in Differentiating Fiber Cells of the Eye Lens. Journal of Cell Biology, 1997, 137, 37-49.	5.2	177
7	Regulation of tissue oxygen levels in the mammalian lens. Journal of Physiology, 2004, 559, 883-898.	2.9	151
8	Intracellular pH measurement using single excitation-dual emission fluorescence ratios. American Journal of Physiology - Cell Physiology, 1990, 258, C171-C178.	4.6	148
9	Differential Protective Activity of Î±A- and Î±B-crystallin in Lens Epithelial Cells. Journal of Biological Chemistry, 2000, 275, 36823-36831.	3.4	145
10	The Role of MIP in Lens Fiber Cell Membrane Transport. Journal of Membrane Biology, 1999, 170, 191-203.	2.1	131
11	Optical dysfunction of the crystalline lens in aquaporin-0-deficient mice. Physiological Genomics, 2001, 7, 179-186.	2.3	126
12	The Molecular Chaperone Î±A-Crystallin Enhances Lens Epithelial Cell Growth and Resistance to UVA Stress. Journal of Biological Chemistry, 1998, 273, 31252-31261.	3.4	109
13	Molecular architecture of the lens fiber cell basal membrane complex. Journal of Cell Science, 1999, 112, 2155-2165.	2.0	98
14	Role of the Executioner Caspases during Lens Development. Journal of Biological Chemistry, 2005, 280, 30263-30272.	3.4	97
15	The membrane proteome of the mouse lens fiber cell. Molecular Vision, 2009, 15, 2448-63.	1.1	97
16	Mitochondrial dynamics in differentiating fiber cells of the mammalian lens. Current Eye Research, 1992, 11, 1227-1232.	1.5	82
17	The fate of the Golgi apparatus and the endoplasmic reticulum during lens fiber cell differentiation. Investigative Ophthalmology and Visual Science, 1995, 36, 1793-803.	3.3	82
18	The lens growth process. Progress in Retinal and Eye Research, 2017, 60, 181-200.	15.5	78

#	Article	IF	Citations
19	The stratified syncytium of the vertebrate lens. Journal of Cell Science, 2009, 122, 1607-1615.	2.0	77
20	Intercellular communication between epithelial and fiber cells of the eye lens. Journal of Cell Science, 1994, 107, 799-811.	2.0	77
21	Intravitreal Gene Therapy Reduces Lysosomal Storage in Specific Areas of the CNS in Mucopolysaccharidosis VII Mice. Journal of Neuroscience, 2003, 23, 3302-3307.	3.6	74
22	Changes in adhesion complexes define stages in the differentiation of lens fiber cells. Investigative Ophthalmology and Visual Science, 2001, 42, 727-34.	3.3	73
23	Lens epithelial cells derived from Î±Bâ€crystallin knockout mice demonstrate hyperproliferation and genomic instability. FASEB Journal, 2001, 15, 221-229.	0.5	66
24	Expression of autofluorescent proteins reveals a novel protein permeable pathway between cells in the lens core. Journal of Cell Science, 2000, 113, 1913-1921.	2.0	64
25	Proteomic Analysis of the Bovine and Human Ciliary Zonule. , 2017, 58, 573.		63
26	Development, Composition, and Structural Arrangements of the Ciliary Zonule of the Mouse. , 2013, 54, 2504.		62
27	Fiber cell denucleation in the primate lens. Investigative Ophthalmology and Visual Science, 1997, 38, 1678-87.	3.3	59
28	Disruption of lens fiber cell architecture in mice expressing a chimeric AQP0â€LTR protein. FASEB Journal, 2000, 14, 2207-2212.	0.5	56
29	A Role for<i>Epha2</i>in Cell Migration and Refractive Organization of the Ocular Lens. , 2012, 53, 551.		54
30	Direct measurement of pH in the rat lens by ion-sensitive microelectrodes. Experimental Eye Research, 1985, 40, 585-590.	2.6	52
31	Refractive Defects and Cataracts in Mice Lacking Lens Intrinsic Membrane Protein-2. , 2007, 48, 500.		52
32	Development of a macromolecular diffusion pathway in the lens. Journal of Cell Science, 2003, 116, 4191-4199.	2.0	51
33	Cyclin B, p34cdc2, and H1-Kinase Activity in Terminally Differentiating Lens Fiber Cells. Developmental Biology, 1995, 169, 185-194.	2.0	47
34	Localization of insulin-like growth factor-1 binding sites in the embryonic chicken eye. Investigative Ophthalmology and Visual Science, 1990, 31, 1637-43.	3.3	47
35	Diffusion of lactate and its role in determining intracellular pH in the lens of the eye. Experimental Eye Research, 1987, 44, 143-147.	2.6	46
36	Molecular architecture of the lens fiber cell basal membrane complex. Journal of Cell Science, 1999, 112 (Pt 13), 2155-65.	2.0	46

#	Article	IF	Citations
37	Morphometric analysis of fibre cell growth in the developing chicken lens. Experimental Eye Research, 2003, 76, 291-302.	2.6	45
38	Cultured Chicken Embryo Lens Cells Resemble Differentiating Fiber Cells in vivo and Contain Two Kinetic Pools of Connexin56. Experimental Eye Research, 1999, 68, 475-484.	2.6	43
39	Calpain Expression and Activity during Lens Fiber Cell Differentiation. Journal of Biological Chemistry, 2009, 284, 13542-13550.	3.4	40
40	Zinn's zonule. Progress in Retinal and Eye Research, 2021, 82, 100902.	15.5	39
41	Expression of platelet-derived growth factor receptors in the developing chicken lens. Investigative Ophthalmology and Visual Science, 1994, 35, 3413-21.	3.3	38
42	The effect of elevated intraocular oxygen on organelle degradation in the embryonic chicken lens. Journal of Experimental Biology, 2003, 206, 4353-4361.	1.7	37
43	Proteolytic Mechanisms Underlying Mitochondrial Degradation in the Ocular Lens. , 2007, 48, 293.		37
44	The cause and consequence of fiber cell compaction in the vertebrateÂlens. Experimental Eye Research, 2017, 156, 50-57.	2.6	37
45	Targeted deletion of fibrillin-1 in the mouse eye results in ectopia lentis and other ocular phenotypes associated with Marfan syndrome. DMM Disease Models and Mechanisms, 2019, 12, .	2.4	36
46	DNase IIÎ² Distribution and Activity in the Mouse Lens. , 2007, 48, 5638.		35
47	Three-dimensional organization of primary lens fiber cells. Investigative Ophthalmology and Visual Science, 2000, 41, 859-63.	3.3	35
48	Three-dimensional reconstruction of cells in the living lens: The relationship between cell length and volume. Experimental Eye Research, 2005, 81, 716-723.	2.6	34
49	The Penny Pusher: A Cellular Model of Lens Growth. Investigative Ophthalmology and Visual Science, 2015, 56, 799-809.	3.3	34
50	The influence of pH on membrane conductance and intercellular resistance in the rat lens.. Journal of Physiology, 1988, 398, 507-521.	2.9	33
51	Lens-preferred activity of chicken Î´1- and Î´2-crystallin enhancers in transgenic mice and evidence for retinoic acid-responsive regulation of the Î´1-crystallin gene. Genesis, 1997, 20, 258-266.	2.1	33
52	The Na+/Ca2+, K+ exchanger NCKX4 is required for efficient cone-mediated vision. ELife, 2017, 6, .	6.0	29
53	Enzyme Replacement Therapy Ameliorates Multiple Symptoms of Murine Homocystinuria. Molecular Therapy, 2018, 26, 834-844.	8.2	28
54	Expression of autofluorescent proteins reveals a novel protein permeable pathway between cells in the lens core. Journal of Cell Science, 2000, 113 (Pt 11), 1913-21.	2.0	28

#	Article	IF	Citations
55	UV-Bâ€“Induced DNA Damage and Repair in the Mouse Lens. , 2013, 54, 6789.		27
56	Ocular Phenotype of<i>Fbn2</i>-Null Mice. , 2013, 54, 7163.		27
57	Exogenous gene expression and protein targeting in lens fiber cells. Investigative Ophthalmology and Visual Science, 1999, 40, 1435-43.	3.3	26
58	A stochastic model of eye lens growth. Journal of Theoretical Biology, 2015, 376, 15-31.	1.7	24
59	Intercellular communication between epithelial and fiber cells of the eye lens. Journal of Cell Science, 1994, 107 (Pt 4), 799-811.	2.0	23
60	Latent-transforming growth factor beta-binding protein-2 (LTBP-2) is required for longevity but not for development of zonular fibers. Matrix Biology, 2021, 95, 15-31.	3.6	21
61	MEMBRANE CONDUCTANCE AND POTASSIUM PERMEABILITY OF THE RAT LENS. Quarterly Journal of Experimental Physiology (Cambridge, England), 1987, 72, 81-93.	1.0	20
62	Intracellular pH regulation in the embryonic chicken lens epithelium.. Journal of Physiology, 1990, 431, 445-464.	2.9	19
63	RNA stability in terminally differentiating fibre cells of the ocular lens. Experimental Eye Research, 2003, 77, 463-476.	2.6	19
64	Further Analysis of the Lens Phenotype inLim2-Deficient Mice. , 2011, 52, 7332.		18
65	<i>Birc7</i>: A Late Fiber Gene of the Crystalline Lens. , 2015, 56, 4823.		16
66	A full lifespan model of vertebrate lens growth. Royal Society Open Science, 2017, 4, 160695.	2.4	13
67	A method for determining cell number in the undisturbed epithelium of the mouse lens. Molecular Vision, 2010, 16, 2294-300.	1.1	13
68	EFFLUX OF CHLORIDE FROM THE RAT LENS: INFLUENCE OF MEMBRANE POTENTIAL AND INTRACELLULAR ACIDIFICATION. Quarterly Journal of Experimental Physiology (Cambridge, England), 1988, 73, 941-949.	1.0	12
69	Expression of transforming growth factor Î² in the embryonic avian lens coincides with the presence of mitochondria. Developmental Dynamics, 1995, 203, 317-323.	1.8	12
70	Inducible gene expression in the lens using tamoxifen and a GFP reporter. Experimental Eye Research, 2007, 85, 732-737.	2.6	12
71	Delivery of Genes and Fluorescent Dyes into Cells of the Intact Lens by Particle Bombardment. Experimental Eye Research, 2002, 74, 639-649.	2.6	11
72	Cadm1 Expression and Function in the Mouse Lens. , 2011, 52, 2293.		10

#	Article	IF	Citations
73	Single-cell RNA-sequencing analysis of the ciliary epithelium and contiguous tissues in the mouse eye. Experimental Eye Research, 2021, 213, 108811.	2.6	10
74	A method for preserving and visualizing the three-dimensional structure of the mouse zonule. Experimental Eye Research, 2019, 185, 107685.	2.6	9
75	Lens Fiber Differentiation. , 2004, , 214-244.		7
76	Lens fluorescence and accommodative amplitude in pre-presbyopic and presbyopic subjects. Experimental Eye Research, 2007, 84, 1013-1017.	2.6	6
77	Somatic Variants in the Human Lens Epithelium: A Preliminary Assessment. , 2016, 57, 4063.		6
78	Compositional Analysis of Extracellular Aggregates in the Eyes of Patients With Exfoliation Syndrome and Exfoliation Glaucoma. , 2021, 62, 27.		5
79	Expression of potassium-dependent sodium-calcium exchanger in the murine lens. Experimental Eye Research, 2018, 167, 18-24.	2.6	4
80	Ion concentrations, fluxes and electrical properties of the embryonic chicken lens. Experimental Eye Research, 1992, 55, 215-224.	2.6	3
81	Lensâ€preferred activity of chicken Î´1â€•and Î´2â€crystallin enhancers in transgenic mice and evidence for retinoic acidâ€responsive regulation of the Î´1â€crystallin gene. Genesis, 1997, 20, 258-266.	2.1	3
82	Capsulorhexis challenge with long anterior lens zonules. American Journal of Ophthalmology Case Reports, 2020, 19, 100756.	0.7	2
83	Cell Biology of Lens Epithelial Cells. , 2014, , 25-38.		2
84	Biological Preparation and Mechanical Technique for Determining Viscoelastic Properties of Zonular Fibers. Journal of Visualized Experiments, 2021, , .	0.3	1
85	An Outsider's Perspective: Is It too Much to Hope that the University of Zagreb Be the Engine of Positive Social Change and Transparent Governance Rather than the Last Bastion of Cronyism?. Croatian Medical Journal, 2008, 49, 98-99.	0.7	0