# Steven Bassnett

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Zinn's zonule. Progress in Retinal and Eye Research, 2021, 82, 100902. | 15.5 | 39 |
| 2 | 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 |
| 3 | 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 |
| 4 | Biological Preparation and Mechanical Technique for Determining Viscoelastic Properties of Zonular Fibers. Journal of Visualized Experiments, 2021, , . | 0.3 | 1 |
| 5 | Compositional Analysis of Extracellular Aggregates in the Eyes of Patients With Exfoliation Syndrome and Exfoliation Glaucoma. , 2021, 62, 27. | | 5 |
| 6 | Capsulorhexis challenge with long anterior lens zonules. American Journal of Ophthalmology Case Reports, 2020, 19, 100756. | 0.7 | 2 |
| 7 | A method for preserving and visualizing the three-dimensional structure of the mouse zonule. Experimental Eye Research, 2019, 185, 107685. | 2.6 | 9 |
| 8 | 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 |
| 9 | Enzyme Replacement Therapy Ameliorates Multiple Symptoms of Murine Homocystinuria. Molecular Therapy, 2018, 26, 834-844. | 8.2 | 28 |
| 10 | Expression of potassium-dependent sodium-calcium exchanger in the murine lens. Experimental Eye Research, 2018, 167, 18-24. | 2.6 | 4 |
| 11 | The cause and consequence of fiber cell compaction in the vertebrateÂlens. Experimental Eye Research, 2017, 156, 50-57. | 2.6 | 37 |
| 12 | The lens growth process. Progress in Retinal and Eye Research, 2017, 60, 181-200. | 15.5 | 78 |
| 13 | A full lifespan model of vertebrate lens growth. Royal Society Open Science, 2017, 4, 160695. | 2.4 | 13 |
| 14 | Proteomic Analysis of the Bovine and Human Ciliary Zonule. , 2017, 58, 573. | | 63 |
| 15 | The Na+/Ca2+, K+ exchanger NCKX4 is required for efficient cone-mediated vision. ELife, 2017, 6, . | 6.0 | 29 |
| 16 | Somatic Variants in the Human Lens Epithelium: A Preliminary Assessment. , 2016, 57, 4063. | | 6 |
| 17 | <i>Birc7</i>: A Late Fiber Gene of the Crystalline Lens. , 2015, 56, 4823. | | 16 |
| 18 | The Penny Pusher: A Cellular Model of Lens Growth. Investigative Ophthalmology and Visual Science, 2015, 56, 799-809. | 3.3 | 34 |

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|---|---|---|---|
| 19 | A stochastic model of eye lens growth. Journal of Theoretical Biology, 2015, 376, 15-31. | 1.7 | 24 |
| 20 | Cell Biology of Lens Epithelial Cells. , 2014, , 25-38. | | 2 |
| 21 | UV-Bâ€“Induced DNA Damage and Repair in the Mouse Lens. , 2013, 54, 6789. | | 27 |
| 22 | Ocular Phenotype of<i>Fbn2</i>-Null Mice. , 2013, 54, 7163. | | 27 |
| 23 | Development, Composition, and Structural Arrangements of the Ciliary Zonule of the Mouse. , 2013, 54, 2504. | | 62 |
| 24 | A Role for<i>Epha2</i>in Cell Migration and Refractive Organization of the Ocular Lens. , 2012, 53, 551. | | 54 |
| 25 | Cadm1 Expression and Function in the Mouse Lens. , 2011, 52, 2293. | | 10 |
| 26 | Further Analysis of the Lens Phenotype inLim2-Deficient Mice. , 2011, 52, 7332. | | 18 |
| 27 | Biological glass: structural determinants of eye lens transparency. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 1250-1264. | 4.0 | 254 |
| 28 | A method for determining cell number in the undisturbed epithelium of the mouse lens. Molecular Vision, 2010, 16, 2294-300. | 1.1 | 13 |
| 29 | The stratified syncytium of the vertebrate lens. Journal of Cell Science, 2009, 122, 1607-1615. | 2.0 | 77 |
| 30 | Calpain Expression and Activity during Lens Fiber Cell Differentiation. Journal of Biological Chemistry, 2009, 284, 13542-13550. | 3.4 | 40 |
| 31 | On the mechanism of organelle degradation in the vertebrate lens. Experimental Eye Research, 2009, 88, 133-139. | 2.6 | 193 |
| 32 | The membrane proteome of the mouse lens fiber cell. Molecular Vision, 2009, 15, 2448-63. | 1.1 | 97 |
| 33 | 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 |
| 34 | Refractive Defects and Cataracts in Mice Lacking Lens Intrinsic Membrane Protein-2. , 2007, 48, 500. | | 52 |
| 35 | Lens fluorescence and accommodative amplitude in pre-presbyopic and presbyopic subjects. Experimental Eye Research, 2007, 84, 1013-1017. | 2.6 | 6 |
| 36 | Inducible gene expression in the lens using tamoxifen and a GFP reporter. Experimental Eye Research, 2007, 85, 732-737. | 2.6 | 12 |

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|---|---|---|---|
| 37 | DNase IIÎ² Distribution and Activity in the Mouse Lens. , 2007, 48, 5638. | | 35 |
| 38 | Proteolytic Mechanisms Underlying Mitochondrial Degradation in the Ocular Lens. , 2007, 48, 293. | | 37 |
| 39 | Role of the Executioner Caspases during Lens Development. Journal of Biological Chemistry, 2005, 280, 30263-30272. | 3.4 | 97 |
| 40 | 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 |
| 41 | Lens Fiber Differentiation. , 2004, , 214-244. | | 7 |
| 42 | Regulation of tissue oxygen levels in the mammalian lens. Journal of Physiology, 2004, 559, 883-898. | 2.9 | 151 |
| 43 | Morphometric analysis of fibre cell growth in the developing chicken lens. Experimental Eye Research, 2003, 76, 291-302. | 2.6 | 45 |
| 44 | RNA stability in terminally differentiating fibre cells of the ocular lens. Experimental Eye Research, 2003, 77, 463-476. | 2.6 | 19 |
| 45 | Development of a macromolecular diffusion pathway in the lens. Journal of Cell Science, 2003, 116, 4191-4199. | 2.0 | 51 |
| 46 | 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 |
| 47 | 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 |
| 48 | Lens Organelle Degradation. Experimental Eye Research, 2002, 74, 1-6. | 2.6 | 238 |
| 49 | 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 |
| 50 | Optical dysfunction of the crystalline lens in aquaporin-0-deficient mice. Physiological Genomics, 2001, 7, 179-186. | 2.3 | 126 |
| 51 | Lens epithelial cells derived from Î±Bâ€crystallin knockout mice demonstrate hyperproliferation and genomic instability. FASEB Journal, 2001, 15, 221-229. | 0.5 | 66 |
| 52 | 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 |
| 53 | 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 |
| 54 | Disruption of lens fiber cell architecture in mice expressing a chimeric AQP0â€LTR protein. FASEB Journal, 2000, 14, 2207-2212. | 0.5 | 56 |

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|---|---|---|---|
| 55 | 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 |
| 56 | Three-dimensional organization of primary lens fiber cells. Investigative Ophthalmology and Visual Science, 2000, 41, 859-63. | 3.3 | 35 |
| 57 | 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 |
| 58 | The Role of MIP in Lens Fiber Cell Membrane Transport. Journal of Membrane Biology, 1999, 170, 191-203. | 2.1 | 131 |
| 59 | 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 |
| 60 | Molecular architecture of the lens fiber cell basal membrane complex. Journal of Cell Science, 1999, 112, 2155-2165. | 2.0 | 98 |
| 61 | Exogenous gene expression and protein targeting in lens fiber cells. Investigative Ophthalmology and Visual Science, 1999, 40, 1435-43. | 3.3 | 26 |
| 62 | Molecular architecture of the lens fiber cell basal membrane complex. Journal of Cell Science, 1999, 112 ( Pt 13), 2155-65. | 2.0 | 46 |
| 63 | 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 |
| 64 | Chromatin Degradation in Differentiating Fiber Cells of the Eye Lens. Journal of Cell Biology, 1997, 137, 37-49. | 5.2 | 177 |
| 65 | 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 |
| 66 | 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 |
| 67 | Fiber cell denucleation in the primate lens. Investigative Ophthalmology and Visual Science, 1997, 38, 1678-87. | 3.3 | 59 |
| 68 | Mutations in the founder of the MIP gene family underlie cataract development in the mouse. Nature Genetics, 1996, 12, 212-215. | 21.4 | 248 |
| 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 | Cyclin B, p34cdc2, and H1-Kinase Activity in Terminally Differentiating Lens Fiber Cells. Developmental Biology, 1995, 169, 185-194. | 2.0 | 47 |
| 71 | 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 |
| 72 | Intercellular communication between epithelial and fiber cells of the eye lens. Journal of Cell Science, 1994, 107, 799-811. | 2.0 | 77 |

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| 73 | Expression of platelet-derived growth factor receptors in the developing chicken lens. Investigative Ophthalmology and Visual Science, 1994, 35, 3413-21. | 3.3 | 38 |
| 74 | Intercellular communication between epithelial and fiber cells of the eye lens. Journal of Cell Science, 1994, 107 ( Pt 4), 799-811. | 2.0 | 23 |
| 75 | Mitochondrial dynamics in differentiating fiber cells of the mammalian lens. Current Eye Research, 1992, 11, 1227-1232. | 1.5 | 82 |
| 76 | Ion concentrations, fluxes and electrical properties of the embryonic chicken lens. Experimental Eye Research, 1992, 55, 215-224. | 2.6 | 3 |
| 77 | Coincident loss of mitochondria and nuclei during lens fiber cell differentiation. Developmental Dynamics, 1992, 194, 85-93. | 1.8 | 196 |
| 78 | Intracellular pH regulation in the embryonic chicken lens epithelium.. Journal of Physiology, 1990, 431, 445-464. | 2.9 | 19 |
| 79 | Intracellular pH measurement using single excitation-dual emission fluorescence ratios. American Journal of Physiology - Cell Physiology, 1990, 258, C171-C178. | 4.6 | 148 |
| 80 | 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 |
| 81 | The influence of pH on membrane conductance and intercellular resistance in the rat lens.. Journal of Physiology, 1988, 398, 507-521. | 2.9 | 33 |
| 82 | 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 |
| 83 | MEMBRANE CONDUCTANCE AND POTASSIUM PERMEABILITY OF THE RAT LENS. Quarterly Journal of Experimental Physiology (Cambridge, England), 1987, 72, 81-93. | 1.0 | 20 |
| 84 | 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 |
| 85 | Direct measurement of pH in the rat lens by ion-sensitive microelectrodes. Experimental Eye Research, 1985, 40, 585-590. | 2.6 | 52 |