

# Sanjoy K Bhattacharya

## List of Publications by Year in descending order

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Version: 2024-02-01

121  
papers

2,788  
citations

279487

23  
h-index

253896

43  
g-index

129  
all docs

129  
docs citations

129  
times ranked

2920  
citing authors

#	ARTICLE	IF	CITATIONS
1	Axon regeneration: membrane expansion and lipidomics. <i>Neural Regeneration Research</i> , 2022, 17, 989.	1.6	1
2	Lyso-Lipid-Induced Oligodendrocyte Maturation Underlies Restoration of Optic Nerve Function. <i>ENeuro</i> , 2022, 9, ENEURO.0429-21.2022.	0.9	6
3	Consensus Recommendation for Mouse Models of Ocular Hypertension to Study Aqueous Humor Outflow and Its Mechanisms. , 2022, 63, 12.		20
4	Analyses of pseudoexfoliation aqueous humor lipidome. <i>Molecular Omics</i> , 2022, 18, 387-396.	1.4	2
5	Metabolomics dataset of mouse optogenetic axon regeneration after optic nerve crush. <i>Data in Brief</i> , 2022, 42, 108306.	0.5	1
6	Labeled quantitative proteomics dataset of optogenetics induced axon regeneration in mice. <i>Data in Brief</i> , 2022, 42, 108304.	0.5	0
7	Multi-omics insights into neuronal regeneration and re-innervation. <i>Neural Regeneration Research</i> , 2021, 16, 296.	1.6	1
8	Proteomics of pseudoexfoliation materials in the anterior eye segment. <i>Advances in Protein Chemistry and Structural Biology</i> , 2021, 127, 271-290.	1.0	6
9	Proteomics and systems biology in optic nerve regeneration. <i>Advances in Protein Chemistry and Structural Biology</i> , 2021, 127, 249-270.	1.0	2
10	Lipidomics dataset of PTEN deletion-induced optic nerve regeneration mouse model. <i>Data in Brief</i> , 2021, 34, 106699.	0.5	6
11	Parallel Multi-Omics in High-Risk Subjects for the Identification of Integrated Biomarker Signatures of Type 1 Diabetes. <i>Biomolecules</i> , 2021, 11, 383.	1.8	17
12	Hypoxia-Driven Oncometabolite L-2HG Maintains Stemness-Differentiation Balance and Facilitates Immune Evasion in Pancreatic Cancer. <i>Cancer Research</i> , 2021, 81, 4001-4013.	0.4	39
13	An overview of lipidomics utilizing cadaver derived biological samples. <i>Expert Review of Proteomics</i> , 2021, 18, 453-461.	1.3	5
14	Consensus Statement for the Management and Treatment of Sturge-Weber Syndrome: Neurology, Neuroimaging, and Ophthalmology Recommendations. <i>Pediatric Neurology</i> , 2021, 121, 59-66.	1.0	19
15	Lipidomics dataset of Danio rerio optic nerve regeneration model. <i>Data in Brief</i> , 2021, 37, 107260.	0.5	4
16	Quantitative proteomic analysis after neuroprotective MyD88 inhibition in the retinal degeneration 10 mouse. <i>Journal of Cellular and Molecular Medicine</i> , 2021, 25, 9533-9542.	1.6	4
17	Nuclear prelamin a recognition factor and iron dysregulation in multiple sclerosis. <i>Metabolic Brain Disease</i> , 2020, 35, 275-282.	1.4	6
18	Lipid profile dataset of optogenetics induced optic nerve regeneration. <i>Data in Brief</i> , 2020, 31, 106001.	0.5	13

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19	Myelin Basic Protein Phospholipid Complexation Likely Competes with Deimination in Experimental Autoimmune Encephalomyelitis Mouse Model. ACS Omega, 2020, 5, 15454-15467.	1.6	7
20	Alteration in Lysophospholipids and Converting Enzymes in Glaucomatous Optic Nerves. , 2020, 61, 60.		14
21	Mitochondrial lipid profiling data of a traumatic optic neuropathy model. Data in Brief, 2020, 30, 105649.	0.5	3
22	Identification and Characterization of Adipose Tissue-Derived Human Antibodies With "Anti-self" Specificity. Frontiers in Immunology, 2020, 11, 392.	2.2	23
23	Aqueous humor metabolite profile of pseudoexfoliation glaucoma is distinctive. Molecular Omics, 2020, 16, 425-435.	1.4	28
24	Endogenous ocular lipids as potential modulators of intraocular pressure. Journal of Cellular and Molecular Medicine, 2020, 24, 3856-3900.	1.6	13
25	Lipidomics dataset of sonication-induced traumatic optic neuropathy in mice. Data in Brief, 2020, 29, 105147.	0.5	3
26	Multi-Omic Analyses of Growth Cones at Different Developmental Stages Provides Insight into Pathways in Adult Neuroregeneration. IScience, 2020, 23, 100836.	1.9	25
27	The effect of extrinsic Wnt/ $\beta$ -catenin signaling in Muller glia on retinal ganglion cell neurite growth. Developmental Neurobiology, 2020, 80, 98-110.	1.5	19
28	Differentiation of soluble aqueous humor metabolites in primary open angle glaucoma and controls. Experimental Eye Research, 2020, 194, 108024.	1.2	26
29	Capillary Electrophoresis Assessment of Plasma Protein Changes in an African Penguin ( <i>Spheniscus</i> )	1.6	1
30	The Role of Deimination in Regenerative Reprogramming of Neurons. Molecular Neurobiology, 2019, 56, 2618-2639.	1.9	5
31	Analyses of Cholesterol Metabolites of Optic Nerve Using GC-MS Methods. Methods in Molecular Biology, 2019, 1996, 47-51.	0.4	3
32	Significant upregulation of small heat shock protein $\alpha$ -crystallin in retinal detachment. Experimental Eye Research, 2019, 189, 107811.	1.2	1
33	Immature and Mature Collagen Crosslinks Quantification Using High-Performance Liquid Chromatography and High-Resolution Mass Spectrometry in Orbitrap. Methods in Molecular Biology, 2019, 1996, 101-111.	0.4	1
34	Analyses of Cholesterol and Derivatives in Ocular Tissues Using LC-MS/MS Methods. Methods in Molecular Biology, 2019, 1996, 53-59.	0.4	1
35	Isotopic Ratio Outlier Analysis (IROA) of Aqueous Humor for Metabolites. Methods in Molecular Biology, 2019, 1996, 179-185.	0.4	1
36	HSD18B7 Enzyme Assay Technique Using a Triple Quadrupole Mass Spectrometer. Methods in Molecular Biology, 2019, 1996, 155-159.	0.4	0

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37	Proteinâ€“Lipid Complex Separation Utilizing a Capillary Electrophoresis System. <i>Methods in Molecular Biology</i> , 2019, 1996, 95-100.	0.4	2
38	Lipid profiling dataset of the Wnt3a-induced optic nerve regeneration. <i>Data in Brief</i> , 2019, 25, 103966.	0.5	5
39	Comparative lipid profiling dataset of the inflammation-induced optic nerve regeneration. <i>Data in Brief</i> , 2019, 24, 103950.	0.5	12
40	Dataset of growth cone-enriched lipidome and proteome of embryonic to early postnatal mouse brain. <i>Data in Brief</i> , 2019, 24, 103865.	0.5	2
41	Labeled quantitative mass spectrometry to study the host response during aspergillosis in the common bottlenose dolphin ( <i>Tursiops truncatus</i> ). <i>Veterinary Microbiology</i> , 2019, 232, 42-49.	0.8	5
42	Optic Nerve Lipidomics Reveal Impaired Glucosylsphingosine Lipids Pathway in Glaucoma. , 2019, 60, 1789.		27
43	A novel myelin basic protein transcript variant in the murine central nervous system. <i>Molecular Biology Reports</i> , 2019, 46, 2547-2553.	1.0	6
44	Tissue protein and lipid alterations in response to metallic impaction. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 2347-2361.	1.2	2
45	Quantitative Metabolomics Using Isotope Residue Outlier Analysis (IROA®) with Internal Standards. <i>Methods in Molecular Biology</i> , 2019, 1996, 41-46.	0.4	5
46	Assessment of Transport of Lipid Metabolites Within Trabecular Meshwork Cells. <i>Methods in Molecular Biology</i> , 2019, 1996, 187-197.	0.4	0
47	Phospholipid secretions of organ cultured ciliary body. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 2556-2566.	1.2	6
48	Shotgun Sphingolipid Analysis of Human Aqueous Humor. <i>Methods in Molecular Biology</i> , 2018, 1695, 97-107.	0.4	3
49	Quantitative Proteomic Analysis of Human Aqueous Humor Using iTRAQ 4plex Labeling. <i>Methods in Molecular Biology</i> , 2018, 1695, 89-95.	0.4	3
50	Translational proteomic study to address host protein changes during aspergillosis. <i>PLoS ONE</i> , 2018, 13, e0200843.	1.1	14
51	Histologic Analysis of Trabecular Meshwork Obtained From Kahook Dual Blade Goniotomy. <i>American Journal of Ophthalmology</i> , 2018, 192, 198-205.	1.7	11
52	Phospholipidomic Studies in Human Cornea From Climatic Droplet Keratopathy. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 3920-3931.	1.2	10
53	Interaction of cochlin and mechanosensitive channel TREK-1 in trabecular meshwork cells influences the regulation of intraocular pressure. <i>Scientific Reports</i> , 2017, 7, 452.	1.6	21
54	Aqueous outflow - A continuum from trabecular meshwork to episcleral veins. <i>Progress in Retinal and Eye Research</i> , 2017, 57, 108-133.	7.3	205

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55	MIF Inhibitor ISO-1 Protects Photoreceptors and Reduces Gliosis in Experimental Retinal Detachment. <i>Scientific Reports</i> , 2017, 7, 14336.	1.6	14
56	Bioinformatics Pertinent to Lipid Analysis in Biological Samples. <i>Methods in Molecular Biology</i> , 2017, 1609, 141-147.	0.4	0
57	Sample Preparation and Analysis for Imaging Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2017, 1609, 43-50.	0.4	3
58	Segmental outflow of aqueous humor in mouse and human. <i>Experimental Eye Research</i> , 2017, 158, 59-66.	1.2	26
59	Protein Deimination in Aging and Age-Related Diseases with Ocular Manifestations. , 2017, , 241-251.		1
60	Chemical Modification and Mass Spectrometric Approaches for Detection of Brain Protein Deimination. , 2017, , 253-273.		0
61	Extensive Citrullination Promotes Immunogenicity of HSP90 through Protein Unfolding and Exposure of Cryptic Epitopes. <i>Journal of Immunology</i> , 2016, 197, 1926-1936.	0.4	32
62	Deimination level and peptidyl arginine deiminase 2 expression are elevated in astrocytes with increased incubation temperature. <i>Journal of Neuroscience Research</i> , 2015, 93, Spc1-Spc1.	1.3	0
63	In vivo quantification of cochlin in glaucomatous DBA/2J mice using optical coherence tomography. <i>Scientific Reports</i> , 2015, 5, 11092.	1.6	7
64	Increased Endoplasmic Reticulum Stress in Human Glaucomatous Trabecular Meshwork Cells and Tissues. , 2015, 56, 3860.		69
65	Aqueous humor phospholipids of DBA/2J and DBA/2J-Gpnmb+/Sjl mice. <i>Biochimie</i> , 2015, 113, 59-68.	1.3	14
66	Deimination level and peptidyl arginine deiminase 2 expression are elevated in astrocytes with increased incubation temperature. <i>Journal of Neuroscience Research</i> , 2015, 93, 1388-1398.	1.3	4
67	Phospholipid makeup of the breast adipose tissue is impacted by obesity and mammary cancer in the mouse: Results of a pilot study. <i>Biochimie</i> , 2015, 108, 133-139.	1.3	8
68	Mechanotransduction Channels of the Trabecular Meshwork. <i>Current Eye Research</i> , 2014, 39, 291-303.	0.7	26
69	A Comparison of Trabecular Meshwork Sphingolipids and Ceramides of Ocular Normotensive and Hypertensive States of DBA/2J Mice. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2014, 30, 283-290.	0.6	8
70	Aberrant glycosylation in the human trabecular meshwork. <i>Proteomics - Clinical Applications</i> , 2014, 8, 130-142.	0.8	11
71	Sphingolipids and ceramides of mouse aqueous humor: Comparative profiles from normotensive and hypertensive DBA/2J mice. <i>Biochimie</i> , 2014, 105, 99-109.	1.3	17
72	Human Trabecular Meshwork Sphingolipid and Ceramide Profiles and Potential Latent Fungal Commensalism. , 2014, 55, 3413.		13

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73	Phospholipid profiles of control and glaucomatous human aqueous humor. <i>Biochimie</i> , 2014, 101, 232-247.	1.3	36
74	Stool Phospholipid Signature is Altered by Diet and Tumors. <i>PLoS ONE</i> , 2014, 9, e114352.	1.1	14
75	Review of application of mass spectrometry for analyses of anterior eye proteome. <i>World Journal of Biological Chemistry</i> , 2014, 5, 106-14.	1.7	11
76	Mass spectrometric analyses of phospholipids in the S334ter-3 rat model of retinal degeneration. <i>Molecular Vision</i> , 2014, 20, 1605-11.	1.1	5
77	Ionic Currents of Human Trabecular Meshwork Cells from Control and Glaucoma Subjects. <i>Journal of Membrane Biology</i> , 2013, 246, 167-175.	1.0	14
78	Retinal deimination and PAD2 levels in retinas from donors with age-related macular degeneration (AMD). <i>Experimental Eye Research</i> , 2013, 111, 71-78.	1.2	26
79	The Use of Bromodeoxyuridine Incorporation Assays to Assess Corneal Stem Cell Proliferation. <i>Methods in Molecular Biology</i> , 2013, 1014, 65-70.	0.4	29
80	Cholesterol and Glycosphingolipids of Human Trabecular Meshwork and Aqueous Humor: Comparative Profiles from Control and Glaucomatous Donors. <i>Current Eye Research</i> , 2013, 38, 1017-1026.	0.7	28
81	Comparative Phospholipid Profiles of Control and Glaucomatous Human Trabecular Meshwork. , 2013, 54, 3037.		33
82	Deimination restores inner retinal visual function in murine demyelinating disease. <i>Journal of Clinical Investigation</i> , 2013, 123, 646-56.	3.9	13
83	Recent Advances in Shotgun Lipidomics and Their Implication for Vision Research and Ophthalmology. <i>Current Eye Research</i> , 2013, 38, 417-427.	0.7	26
84	Lipidomic mass spectrometry and its application in neuroscience. <i>World Journal of Biological Chemistry</i> , 2013, 4, 102.	1.7	10
85	Sphingolipids and ceramides in human aqueous humor. <i>Molecular Vision</i> , 2013, 19, 1966-84.	1.1	21
86	Mass Spectrometric Analyses of Phosphatidylcholines in Alkali-Exposed Corneal Tissue. , 2012, 53, 7122.		22
87	The role of deimination in ATP5b mRNA transport in a transgenic mouse model of multiple sclerosis. <i>EMBO Reports</i> , 2012, 13, 230-236.	2.0	11
88	Cochlin, Intraocular Pressure Regulation and Mechanosensing. <i>PLoS ONE</i> , 2012, 7, e34309.	1.1	36
89	Cochlin Induced TREK-1 Co-Expression and Annexin A2 Secretion: Role in Trabecular Meshwork Cell Elongation and Motility. <i>PLoS ONE</i> , 2011, 6, e23070.	1.1	28
90	Evaluation of a Transgenic Mouse Model of Multiple Sclerosis with Noninvasive Methods. , 2011, 52, 2405.		22

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91	Proteomic Analyses of Corneal Tissue Subjected to Alkali Exposure. , 2011, 52, 1819.		12
92	Detection of Magnetic Particles in Live DBA/2J Mouse Eyes Using Magnetomotive Optical Coherence Tomography. Eye and Contact Lens, 2010, 36, 346-351.	0.8	11
93	Towards a matrix mechanics framework for dynamic protein network. Systems and Synthetic Biology, 2010, 4, 139-144.	1.0	2
94	Toward failure analyses in systems biology. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2010, 2, 507-517.	6.6	2
95	COCHTransgene Expression in Cultured Human Trabecular Meshwork Cells and Its Effect on Outflow Facility in Monkey Organ Cultured Anterior Segments. , 2010, 51, 2060.		22
96	Aqueous Humor Dynamics: A Review~!2010-03-03~!2010-06-17~!2010-09-02~!. Open Ophthalmology Journal, 2010, 4, 52-59.	0.1	582
97	Potential for Transcriptional Upregulation of Cochlin in Glaucomatous Trabecular Meshwork: A Combinatorial Bioinformatic and Biochemical Analytical Approach. , 2009, 50, 3106.		9
98	Cochlin Expression in Anterior Segment Organ Culture Models after TGF $\beta$ 2 Treatment. , 2009, 50, 551.		47
99	Retinal deimination in aging and disease. IUBMB Life, 2009, 61, 504-509.	1.5	33
100	Network analysis of human glaucomatous optic nerve head astrocytes. BMC Medical Genomics, 2009, 2, 24.	0.7	51
101	Laser Trabeculoplasty Induces Changes in the Trabecular Meshwork Glycoproteome: A Pilot Study. Journal of Proteome Research, 2009, 8, 3727-3736.	1.8	24
102	Proteomics Characterization of Cell Membrane Blebs in Human Retinal Pigment Epithelium Cells. Molecular and Cellular Proteomics, 2009, 8, 2201-2211.	2.5	38
103	Increased isolevuglandin-modified proteins in glaucomatous astrocytes. Molecular Vision, 2009, 15, 1079-91.	1.1	18
104	Strategies to recover proteins from ocular tissues for proteomics. Proteomics, 2008, 8, 1055-1070.	1.3	52
105	Age-related reduction in retinal deimination levels in the F344BN rat. Aging Cell, 2008, 7, 441-444.	3.0	18
106	Mechanical Stretching Elevates Peptidyl Arginine Deiminase 2 Expression in Astrocytes. Current Eye Research, 2008, 33, 994-1001.	0.7	11
107	Proteomics of the Nucleus Ovoidalis and Field L Brain Regions of Zebra Finch. Journal of Proteome Research, 2008, 7, 2121-2132.	1.8	8
108	Isolevuglandin-Modified Proteins, Including Elevated Levels of Inactive Calpain-1, Accumulate in Glaucomatous Trabecular Meshwork. Biochemistry, 2008, 47, 817-825.	1.2	29

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109	Neuroprotection in Glaucoma Using Calpain-1 Inhibitors: Regional Differences in Calpain-1 Activity in the Trabecular Meshwork, Optic Nerve and Implications for Therapeutics. <i>CNS and Neurological Disorders - Drug Targets</i> , 2008, 7, 295-304.	0.8	11
110	Proteomic Analysis of Climatic Keratopathy Droplets. , 2008, 49, 2829.		21
111	Ocular Effects of Exposure to Industrial Chemicals: Clinical Management and Proteomic Approaches to Damage Assessment. <i>Cutaneous and Ocular Toxicology</i> , 2007, 26, 203-225.	0.5	13
112	Proteomic Analyses of Songbird (Zebra finch; <i>Taeniopygia guttata</i> ) Retina. <i>Journal of Proteome Research</i> , 2007, 6, 1093-1100.	1.8	10
113	Proteomic Analyses of Zebra Finch Optic Tectum and Comparative Histochemistry. <i>Journal of Proteome Research</i> , 2007, 6, 2341-2350.	1.8	11
114	Cochlin in the eye: Functional implications. <i>Progress in Retinal and Eye Research</i> , 2007, 26, 453-469.	7.3	29
115	Modulation of Peptidyl Arginine Deiminase 2 and Implication for Neurodegeneration. <i>Current Eye Research</i> , 2006, 31, 1063-1071.	0.7	32
116	Focus on Molecules: Cochlin. <i>Experimental Eye Research</i> , 2006, 82, 355-356.	1.2	20
117	Proteomics Implicates Peptidyl Arginine Deiminase 2 and Optic Nerve Citrullination in Glaucoma Pathogenesis. , 2006, 47, 2508.		106
118	Cochlin and glaucoma: A mini-review. <i>Visual Neuroscience</i> , 2005, 22, 605-613.	0.5	21
119	Proteomics Reveal Cochlin Deposits Associated with Glaucomatous Trabecular Meshwork. <i>Journal of Biological Chemistry</i> , 2005, 280, 6080-6084.	1.6	140
120	Cochlin deposits in the trabecular meshwork of the glaucomatous DBA/2J mouse. <i>Experimental Eye Research</i> , 2005, 80, 741-744.	1.2	38
121	Biochemical engineering: cues from cells. <i>Trends in Biotechnology</i> , 2003, 21, 204-209.	4.9	13