# Sayon Roy

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6777278/publications.pdf

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|---|---|---|---|
| 70 papers | 2,980 citations | 249298 26 h-index | 252626 46 g-index |
| 71 all docs | 71 docs citations | 71 times ranked | 3579 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Functions and Mechanisms of Pro-Lysyl Oxidase Processing in Cancers and Eye Pathologies with a Focus on Diabetic Retinopathy. International Journal of Molecular Sciences, 2022, 23, 5088. | 1.8 | 3 |
| 2 | Retinal capillary basement membrane thickening: Role in the pathogenesis of diabetic retinopathy. Progress in Retinal and Eye Research, 2021, 82, 100903. | 7.3 | 44 |
| 3 | Vascular Basement Membrane Thickening: Basis of Disease Pathology in Diabetic Retinopathy. Essentials in Ophthalmology, 2021, , 275-287. | 0.0 | 1 |
| 4 | Opa1 Deficiency Promotes Development of Retinal Vascular Lesions in Diabetic Retinopathy. International Journal of Molecular Sciences, 2021, 22, 5928. | 1.8 | 7 |
| 5 | Reduced Levels of Drp1 Protect against Development of Retinal Vascular Lesions in Diabetic Retinopathy. Cells, 2021, 10, 1379. | 1.8 | 10 |
| 6 | High Glucose-Induced Apoptosis Is Linked to Mitochondrial Connexin 43 Level in RRECs: Implications for Diabetic Retinopathy. Cells, 2021, 10, 3102. | 1.8 | 9 |
| 7 | Downregulation of Drp1 and Fis1 Inhibits Mitochondrial Fission and Prevents High Glucose-Induced Apoptosis in Retinal Endothelial Cells. Cells, 2020, 9, 1662. | 1.8 | 30 |
| 8 | High-Glucose-Induced Rab20 Upregulation Disrupts Gap Junction Intercellular Communication and Promotes Apoptosis in Retinal Endothelial and MÃ¼ller Cells: Implications for Diabetic Retinopathy. Journal of Clinical Medicine, 2020, 9, 3710. | 1.0 | 9 |
| 9 | Effects of Diabetes on Microcirculation and Leukostasis in Retinal and Non-Ocular Tissues: Implications for Diabetic Retinopathy. Biomolecules, 2020, 10, 1583. | 1.8 | 11 |
| 10 | Effects of Diabetes on Mitochondrial Morphology and Its Implications in Diabetic Retinopathy. , 2020, 61, 10. | | 14 |
| 11 | High Glucose Increases Binding of Lysyl Oxidase to Extracellular Matrix Proteins: Implications for Diabetic Retinopathy. , 2020, 61, 40. | | 6 |
| 12 | Impaired Gastric Hormone Regulation of Osteoblasts and Lysyl Oxidase Drives Bone Disease in Diabetes Mellitus. JBMR Plus, 2019, 3, e10212. | 1.3 | 11 |
| 13 | Mitochondrial Structural Changes in the Pathogenesis of Diabetic Retinopathy. Journal of Clinical Medicine, 2019, 8, 1363. | 1.0 | 29 |
| 14 | Effects of High Glucoseâ€“Induced Lysyl Oxidase Propeptide on Retinal Endothelial Cell Survival. American Journal of Pathology, 2019, 189, 1945-1952. | 1.9 | 13 |
| 15 | Upregulation of Lysyl Oxidase Expression in Vitreous of Diabetic Subjects: Implications for Diabetic Retinopathy. Cells, 2019, 8, 1122. | 1.8 | 13 |
| 16 | Decreased lysyl oxidase level protects against development of retinal vascular lesions in diabetic retinopathy. Experimental Eye Research, 2019, 184, 221-226. | 1.2 | 13 |
| 17 | Inhibition of Diabetes-Induced Lysyl Oxidase Overexpression Prevents Retinal Vascular Lesions Associated With Diabetic Retinopathy. , 2018, 59, 5965. | | 18 |
| 18 | Volumetric fluorescence retinal imaging in vivo over a 30-degree field of view by oblique scanning laser ophthalmoscopy (oSLO). Biomedical Optics Express, 2018, 9, 25. | 1.5 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Inhibition of Cx43 gap junction uncoupling prevents high glucose-induced apoptosis and reduces excess cell monolayer permeability in retinal vascular endothelial cells. Experimental Eye Research, 2018, 173, 85-90. | 1.2 | 27 |
| 20 | Connexin channel and its role in diabetic retinopathy. Progress in Retinal and Eye Research, 2017, 61, 35-59. | 7.3 | 32 |
| 21 | Oral glucose tolerance test performance in olanzapine-treated schizophrenia-spectrum patients is predicted by BMI and triglycerides but not olanzapine dose or duration. Human Psychopharmacology, 2017, 32, e2604. | 0.7 | 4 |
| 22 | Cell-cell communication in diabetic retinopathy. Vision Research, 2017, 139, 115-122. | 0.7 | 36 |
| 23 | Mechanistic Insights into Pathological Changes in the Diabetic Retina. American Journal of Pathology, 2017, 187, 9-19. | 1.9 | 157 |
| 24 | High Glucose Induces Mitochondrial Dysfunction in Retinal MÃ¼ller Cells: Implications for Diabetic Retinopathy. , 2017, 58, 2915. | | 83 |
| 25 | Downregulation of Lysyl Oxidase Protects Retinal Endothelial Cells From High Glucoseâ€“Induced Apoptosis. , 2017, 58, 2725. | | 16 |
| 26 | Increased Intraocular Pressure and Hyperglycemic Level in Diabetic Patients. PLoS ONE, 2016, 11, e0151833. | 1.1 | 22 |
| 27 | Association of reduced Connexin 43 expression with retinal vascular lesions in human diabetic retinopathy. Experimental Eye Research, 2016, 146, 103-106. | 1.2 | 25 |
| 28 | Retinal fibrosis in diabetic retinopathy. Experimental Eye Research, 2016, 142, 71-75. | 1.2 | 79 |
| 29 | Hyperhexosemia-Induced Retinal Vascular Pathology in a Novel Primate Model of Diabetic Retinopathy. Diabetes, 2015, 64, 2603-2608. | 0.3 | 16 |
| 30 | Extracellular matrix, gap junctions, and retinal vascular homeostasis in diabetic retinopathy. Experimental Eye Research, 2015, 133, 58-68. | 1.2 | 33 |
| 31 | Beneficial effects of fenofibric acid on overexpression of extracellular matrix components, COX-2, and impairment of endothelial permeability associated with diabetic retinopathy. Experimental Eye Research, 2015, 140, 124-129. | 1.2 | 26 |
| 32 | Increased Expression of c-Fos, c-Jun and c-Jun N-Terminal Kinase Associated with Neuronal Cell Death in Retinas of Diabetic Patients. Current Eye Research, 2014, 39, 527-531. | 0.7 | 19 |
| 33 | High Glucose Alters Cx43 Expression and Gap Junction Intercellular Communication in Retinal MÃ¼ller Cells: Promotes MÃ¼ller Cell and Pericyte Apoptosis. , 2014, 55, 4327. | | 52 |
| 34 | Downregulation of Connexin 43 promotes vascular cell loss and excess permeability associated with the development of vascular lesions in the diabetic retina. Molecular Vision, 2014, 20, 732-41. | 1.1 | 39 |
| 35 | High Glucoseâ€“Induced Downregulation of Connexin 30.2 Promotes Retinal Vascular Lesions: Implications for Diabetic Retinopathy. , 2013, 54, 2361. | | 20 |
| 36 | Density and distribution of connexin 43 in corpus cavernosum tissue from diabetic and hypogonadal patients with erectile dysfunction. Hormone Molecular Biology and Clinical Investigation, 2013, 13, 7-12. | 0.3 | 4 |

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|---|---|---|---|
| 37 | Fenofibrate: A New Treatment for Diabetic Retinopathy. Molecular Mechanisms and Future Perspectives. Current Medicinal Chemistry, 2013, 20, 3258-3266. | 1.2 | 35 |
| 38 | Effects of High Glucose-Induced Cx43 Downregulation on Occludin and ZO-1 Expression and Tight Junction Barrier Function in Retinal Endothelial Cells. , 2013, 54, 6518. | | 75 |
| 39 | Mitochondrial Dysfunction and Endoplasmic Reticulum Stress in Diabetic Retinopathy: Mechanistic Insights into High Glucose-Induced Retinal Cell Death. Current Clinical Pharmacology, 2013, 8, 278-284. | 0.2 | 42 |
| 40 | Downregulation of Mitochondrial Connexin 43 by High Glucose Triggers Mitochondrial Shape Change and Cytochrome c Release in Retinal Endothelial Cells. , 2012, 53, 6675. | | 57 |
| 41 | High Glucose-induced Altered Basement Membrane Composition and Structure Increases Trans-endothelial Permeability: Implications for Diabetic Retinopathy. Current Eye Research, 2011, 36, 747-753. | 0.7 | 66 |
| 42 | High Glucose Induces Mitochondrial Morphology and Metabolic Changes in Retinal Pericytes. , 2011, 52, 8657. | | 83 |
| 43 | Fenofibric Acid Reduces Fibronectin and Collagen Type IV Overexpression in Human Retinal Pigment Epithelial Cells Grown in Conditions Mimicking the Diabetic Milieu: Functional Implications in Retinal Permeability. , 2011, 52, 6348. | | 58 |
| 44 | A long-term siRNA strategy regulates fibronectin overexpression and improves vascular lesions in retinas of diabetic rats. Molecular Vision, 2011, 17, 3166-74. | 1.1 | 26 |
| 45 | Aging increases retinal vascular lesions characteristic of early diabetic retinopathy. Biogerontology, 2010, 11, 447-455. | 2.0 | 22 |
| 46 | Reduced Connexin 43 Expression and Its Effect on the Development of Vascular Lesions in Retinas of Diabetic Mice. , 2010, 51, 3758. | | 101 |
| 47 | High Glucose Increases Lysyl Oxidase Expression and Activity in Retinal Endothelial Cells: Mechanism for Compromised Extracellular Matrix Barrier Function. Diabetes, 2010, 59, 3159-3166. | 0.3 | 61 |
| 48 | Vascular Basement Membrane Thickening in Diabetic Retinopathy. Current Eye Research, 2010, 35, 1045-1056. | 0.7 | 109 |
| 49 | New Insights into Hyperglycemia-induced Molecular Changes in Microvascular Cells. Journal of Dental Research, 2010, 89, 116-127. | 2.5 | 42 |
| 50 | High Glucose Disrupts Mitochondrial Morphology in Retinal Endothelial Cells. American Journal of Pathology, 2010, 177, 447-455. | 1.9 | 108 |
| 51 | FOXO1 plays an essential role in apoptosis of retinal pericytes. Molecular Vision, 2010, 16, 408-15. | 1.1 | 50 |
| 52 | Tight Glycemic Control Regulates Fibronectin Expression and Basement Membrane Thickening in Retinal and Glomerular Capillaries of Diabetic Rats. , 2009, 50, 943. | | 47 |
| 53 | FOXO1 Plays an Important Role in Enhanced Microvascular Cell Apoptosis and Microvascular Cell Loss in Type 1 and Type 2 Diabetic Rats. Diabetes, 2009, 58, 917-925. | 0.3 | 119 |
| 54 | High Glucoseâ€“Induced Downregulation of Connexin 43 Expression Promotes Apoptosis in Microvascular Endothelial Cells. , 2009, 50, 1400. | | 66 |

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|---|---|---|---|
| 55 | Diabetes-Enhanced Tumor Necrosis Factor-Î± Production Promotes Apoptosis and the Loss of Retinal Microvascular Cells in Type 1 and Type 2 Models of Diabetic Retinopathy. American Journal of Pathology, 2008, 172, 1411-1418. | 1.9 | 181 |
| 56 | Common Therapeutic Strategies for Diabetic Retinopathy and Glaucoma. Current Drug Therapy, 2007, 2, 224-232. | 0.2 | 14 |
| 57 | Effect of excess synthesis of extracellular matrix components by trabecular meshwork cells: Possible consequence on aqueous outflow. Experimental Eye Research, 2007, 84, 832-842. | 1.2 | 45 |
| 58 | Effect of Chronic Hyperglycemia on Intraocular Pressure in Patients With Diabetes. American Journal of Ophthalmology, 2007, 143, 363-365. | 1.7 | 29 |
| 59 | Effect of combined antisense oligonucleotides against high-glucose- and diabetes-induced overexpression of extracellular matrix components and increased vascular permeability. Diabetes, 2006, 55, 86-92. | 0.3 | 46 |
| 60 | Diabetes: A potential enhancer of retinal injury in rat retinas. Neuroscience Letters, 2005, 390, 25-30. | 1.0 | 58 |
| 61 | SiRNA strategy against overexpression of extracellular matrix in diabetic retinopathy. Experimental Eye Research, 2005, 81, 32-37. | 1.2 | 25 |
| 62 | Fibronectin overexpression inhibits trabecular meshwork cell monolayer permeability. Molecular Vision, 2004, 10, 750-7. | 1.1 | 27 |
| 63 | Downregulation of Fibronectin Overexpression Reduces Basement Membrane Thickening and Vascular Lesions in Retinas of Galactose-Fed Rats. Diabetes, 2003, 52, 1229-1234. | 0.3 | 87 |
| 64 | Vascular complications and gene therapy. Expert Opinion on Biological Therapy, 2003, 3, 71-83. | 1.4 | 3 |
| 65 | High Glucose Alters Connexin 43 Expression and Gap Junction Intercellular Communication Activity in Retinal Pericytes. , 2003, 44, 5376. | | 85 |
| 66 | Downregulation of Connexin 43 Expression by High Glucose Reduces Gap Junction Activity in Microvascular Endothelial Cells. Diabetes, 2002, 51, 1565-1571. | 0.3 | 132 |
| 67 | Effect of high glucose on fibronectin expression and cell proliferation in trabecular meshwork cells. Investigative Ophthalmology and Visual Science, 2002, 43, 170-5. | 3.3 | 48 |
| 68 | Short-term effect of ÃŸ-adrenoreceptor blocking agents on ocular blood flow. Current Eye Research, 2001, 23, 298-306. | 0.7 | 11 |
| 69 | Antisense Oligonucleotides Modulate High Glucose-Induced Laminin Overexpression and Cell Proliferation: A Potential for Therapeutic Application in Diabetic Microangiopathy. Oligonucleotides, 2001, 11, 387-394. | 4.4 | 10 |
| 70 | Reduction of fibronectin expression by intravitreal administration of antisense oligonucleotides. Nature Biotechnology, 1999, 17, 476-479. | 9.4 | 59 |