Julia V Busik

List of Publications by Year
in descending order

74 papers	3,798 citations	147801 31 h-index	149698 56 g-index
76 all docs	76 docs citations	76 times ranked	4857 citing authors

#	Article	IF	Citations
1	Lipids, hyperreflective crystalline deposits and diabetic retinopathy: potential systemic and retinal-specific effect of lipid-lowering therapies. Diabetologia, 2022, 65, 587-603.	6.3	15
2	Fasting and fasting-mimicking treatment activate SIRT1/LXRÎ± and alleviate diabetes-induced systemic and microvascular dysfunction. Diabetologia, 2021, 64, 1674-1689.	6.3	41
3	Lipid metabolism dysregulation in diabetic retinopathy. Journal of Lipid Research, 2021, 62, 100017.	4.2	50
4	Mitochondrial Ceramide Effects on the Retinal Pigment Epithelium in Diabetes. International Journal of Molecular Sciences, 2020, 21, 3830.	4.1	14
5	Extracellular Vesicle-Induced Classical Complement Activation Leads to Retinal Endothelial Cell Damage via MAC Deposition. International Journal of Molecular Sciences, 2020, 21, 1693.	4.1	18
6	Diurnal Rhythmicity of Autophagy Is Impaired in the Diabetic Retina. Cells, 2020, 9, 905.	4.1	33
7	Selective LXR agonist DMHCA corrects retinal and bone marrow dysfunction in type 2 diabetes. JCI Insight, 2020, 5, .	5.0	14
8	333-OR: DMHCA Reduces the Development of Diabetic Retinopathy (DR) in db/db Mice by Lowering Cholesterol Levels and Altering the Transcriptomic Profile of Hematopoietic Stem Cells. Diabetes, 2020, 69, 333-OR.	0.6	0
9	Micro-respirometry of whole cells and isolated mitochondria. RSC Advances, 2019, 9, 33257-33267.	3.6	9
10	Retinal Vascular Abnormalities and Microglia Activation in Mice with Deficiency in Cytochrome P450 46A1â€“Mediated Cholesterol Removal. American Journal of Pathology, 2019, 189, 405-425.	3.8	36
11	47-OR: Regulation of SIRT1 as a Target of Prevention of Diabetic Retinopathy in db/db Mice. Diabetes, 2019, 68, .	0.6	0
12	583-P: Increase in Mitochondrial Ceramide Contributes to Diabetes-Induced Retinal Endothelial Cell Damage. Diabetes, 2019, 68, 583-P.	0.6	0
13	Models of retinal diseases and their applicability in drug discovery. Expert Opinion on Drug Discovery, 2018, 13, 359-377.	5.0	33
14	ELOVL4-Mediated Production of Very Long-Chain Ceramides Stabilizes Tight Junctions and Prevents Diabetes-Induced Retinal Vascular Permeability. Diabetes, 2018, 67, 769-781.	0.6	41
15	Restructuring of the Gut Microbiome by Intermittent Fasting Prevents Retinopathy and Prolongs Survival in <i>db/db</i> Mice. Diabetes, 2018, 67, 1867-1879.	0.6	243
16	Enteral Arg-Gln Dipeptide Administration Increases Retinal Docosahexaenoic Acid and Neuroprotectin D1 in a Murine Model of Retinopathy of Prematurity. , 2018, 59, 858.		11
17	Differential composition of DHA and very-long-chain PUFAs in rod and cone photoreceptors. Journal of Lipid Research, 2018, 59, 1586-1596.	4.2	56
18	Plasma Exosomes Contribute to Microvascular Damage in Diabetic Retinopathy by Activating the Classical Complement Pathway. Diabetes, 2018, 67, 1639-1649.	0.6	85

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19	Conditional Deletion of Bmal1 Accentuates Microvascular and Macrovascular Injury. American Journal of Pathology, 2017, 187, 1426-1435.	3.8	34
20	Increase in acid sphingomyelinase level in human retinal endothelial cells and CD34+ circulating angiogenic cells isolated from diabetic individuals is associated with dysfunctional retinal vasculature and vascular repair process in diabetes. Journal of Clinical Lipidology, 2017, 11, 694-703.	1.5	22
21	The role of dyslipidemia in diabetic retinopathy. Vision Research, 2017, 139, 228-236.	1.4	70
22	Interplay between Endothelial Cell Cytoskeletal Rigidity and Plasma Membrane Fluidity. Biophysical Journal, 2017, 112, 831-833.	0.5	9
23	Come to the Light Side: In Vivo Monitoring of Pseudomonas aeruginosa Biofilm Infections in Chronic Wounds in a Diabetic Hairless Murine Model. Journal of Visualized Experiments, 2017, , .	0.3	8
24	The Mechanism of Diabetic Retinopathy Pathogenesis Unifying Key Lipid Regulators, Sirtuin 1 and Liver X Receptor. EBioMedicine, 2017, 22, 181-190.	6.1	48
25	Hematopoietic stem/progenitor involvement in retinal microvascular repair during diabetes: Implications for bone marrow rejuvenation. Vision Research, 2017, 139, 211-220.	1.4	21
26	Tumor Necrosis Factor Alpha (TNF-Î±) Disrupts Kir4.1 Channel Expression Resulting in MÃ¼ller Cell Dysfunction in the Retina. , 2017, 58, 2473.		16
27	Role of Acid Sphingomyelinase in Shifting the Balance Between Proinflammatory and Reparative Bone Marrow Cells in Diabetic Retinopathy. Stem Cells, 2016, 34, 972-983.	3.2	39
28	Ataxia Telangiectasia Mutated Dysregulation Results in Diabetic Retinopathy. Stem Cells, 2016, 34, 405-417.	3.2	12
29	Dual Anti-Inflammatory and Anti-Angiogenic Action of miR-15a in Diabetic Retinopathy. EBioMedicine, 2016, 11, 138-150.	6.1	66
30	Effect of storage time on gene expression data acquired from unfrozen archived newborn blood spots. Molecular Genetics and Metabolism, 2016, 119, 207-213.	1.1	5
31	Imbalances in Mobilization and Activation of Pro-Inflammatory and Vascular Reparative Bone Marrow-Derived Cells in Diabetic Retinopathy. PLoS ONE, 2016, 11, e0146829.	2.5	46
32	Wnting Out Ocular Neovascularization. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 1046-1047.	2.4	3
33	Effect of Reduced Retinal VLC-PUFA on Rod and Cone Photoreceptors. , 2014, 55, 3150.		38
34	Aldose Reductase Meets Histone Acetylation: A New Role for an Old Player. Diabetes, 2014, 63, 402-404.	0.6	0
35	Regulation of Retinal Inflammation by Rhythmic Expression of MiR-146a in Diabetic Retina. , 2014, 55, 3986.		61
36	A monophasic extraction strategy for the simultaneous lipidome analysis of polar and nonpolar retina lipids. Journal of Lipid Research, 2014, 55, 1797-1809.	4.2	76

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37	Changes in the Daily Rhythm of Lipid Metabolism in the Diabetic Retina. PLoS ONE, 2014, 9, e95028.	2.5	38
38	Fingolimod Expands Human Umbilical Cord Blood Cells (UCB) in Vitro and Improves Engraftment Rate of Human UCB in Sublethally Irradiated NOD SCID Gamma (NSG) Mice. Blood, 2014, 124, 2413-2413.	1.4	0
39	Impact of Bone Marrow Neuropathy on the Outcome of Autologous Stem Cell Transplantation (ASCT) for Lymphoma. Biology of Blood and Marrow Transplantation, 2013, 19, S191-S192.	2.0	0
40	CNS Inflammation and Bone Marrow Neuropathy in Type 1 Diabetes. American Journal of Pathology, 2013, 183, 1608-1620.	3.8	53
41	<i>Per2</i> Mutation Recapitulates the Vascular Phenotype of Diabetes in the Retina and Bone Marrow. Diabetes, 2013, 62, 273-282.	0.6	61
42	Gene expression in archived newborn blood spots distinguishes infants who will later develop cerebral palsy from matched controls. Pediatric Research, 2013, 73, 450-456.	2.3	22
43	N-3 Polyunsaturated Fatty Acids Prevent Diabetic Retinopathy by Inhibition of Retinal Vascular Damage and Enhanced Endothelial Progenitor Cell Reparative Function. PLoS ONE, 2013, 8, e55177.	2.5	79
44	Dicer Expression Exhibits a Tissue-Specific Diurnal Pattern That Is Lost during Aging and in Diabetes. PLoS ONE, 2013, 8, e80029.	2.5	42
45	Evaluation of Sex-Specific Gene Expression in Archived Dried Blood Spots (DBS). International Journal of Molecular Sciences, 2012, 13, 9599-9608.	4.1	6
46	Examining the role of lipid mediators in diabetic retinopathy. Clinical Lipidology, 2012, 7, 661-675.	0.4	35
47	Free Insulin-like Growth Factor Binding Protein-3 (IGFBP-3) Reduces Retinal Vascular Permeability in Association with a Reduction of Acid Sphingomyelinase (ASMase). , 2011, 52, 8278.		23
48	The Unconventional Role of Acid Sphingomyelinase in Regulation of Retinal Microangiopathy in Diabetic Human and Animal Models. Diabetes, 2011, 60, 2370-2378.	0.6	81
49	Remodeling of Retinal Fatty Acids in an Animal Model of Diabetes. Diabetes, 2010, 59, 219-227.	0.6	112
50	Inhibition of Cytokine Signaling in Human Retinal Endothelial Cells through Downregulation of Sphingomyelinases by Docosahexaenoic Acid. , 2010, 51, 3253.		59
51	Non-mammalian fat-1 gene prevents neoplasia when introduced to a mouse hepatocarcinogenesis model. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2010, 1801, 1133-1144.	2.4	25
52	Differential Regulation of High Glucoseâ€"Induced Glyceraldehyde-3-Phosphate Dehydrogenase Nuclear Accumulation in Mul̂ler Cells by IL-1Î² and IL-6. , 2009, 50, 1920.		65
53	Analysis of Retina and Erythrocyte Glycerophospholipid Alterations in a Rat Model of Type 1 Diabetes. Journal of the Association for Laboratory Automation, 2009, 14, 383-399.	2.8	11
54	Archived Unfrozen Neonatal Blood Spots Are Amenable to Quantitative Gene Expression Analysis. Neonatology, 2009, 95, 210-216.	2.0	30

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55	Insulin-Like Growth Factor Binding Protein-3 Mediates Vascular Repair by Enhancing Nitric Oxide Generation. Circulation Research, 2009, 105, 897-905.	4.5	77
56	Diabetic retinopathy is associated with bone marrow neuropathy and a depressed peripheral clock. Journal of Experimental Medicine, 2009, 206, 2897-2906.	8.5	219
57	Novel mechanism for obesity-induced colon cancer progression. Carcinogenesis, 2009, 30, 690-697.	2.8	75
58	Global Analysis of Retina Lipids by Complementary Precursor Ion and Neutral Loss Mode Tandem Mass Spectrometry. Methods in Molecular Biology, 2009, 579, 33-70.	0.9	47
59	Complementary precursor ion and neutral loss scan mode tandem mass spectrometry for the analysis of glycerophosphatidylethanolamine lipids from whole rat retina. Analytical and Bioanalytical Chemistry, 2009, 394, 267-275.	3.7	26
60	Hyperglycemia-Induced Reactive Oxygen Species Toxicity to Endothelial Cells Is Dependent on Paracrine Mediators. Diabetes, 2008, 57, 1952-1965.	0.6	284
61	Carbon Monoxide and Nitric Oxide Mediate Cytoskeletal Reorganization in Microvascular Cells via Vasodilator-Stimulated Phosphoprotein Phosphorylation. Diabetes, 2008, 57, 2488-2494.	0.6	54
62	Inhibition of Cytokine Signaling in Human Retinal Endothelial Cells through Modification of Caveolae/Lipid Rafts by Docosahexaenoic Acid. , 2007, 48, 18.		88
63	Regulation of hepatic fatty acid elongase and desaturase expression in diabetes and obesity. Journal of Lipid Research, 2006, 47, 2028-2041.	4.2	279
64	Anti-inflammatory Effect of Docosahexaenoic Acid on Cytokine-Induced Adhesion Molecule Expression in Human Retinal Vascular Endothelial Cells. , 2005, 46, 4342.		149
65	Tissue-specific, nutritional, and developmental regulation of rat fatty acid elongases. Journal of Lipid Research, 2005, 46, 706-715.	4.2	233
66	Dyslipidemia, but Not Hyperglycemia, Induces Inflammatory Adhesion Molecules in Human Retinal Vascular Endothelial Cells. , 2003, 44, 5016.		72
67	Regulation of Hepatic GLUT8 Expression in Normal and Diabetic Models. Endocrinology, 2003, 144, 1703-1711.	2.8	51
68	Are Diabetic Neuropathy, Retinopathy and Nephropathy Caused by Hyperglycemic Exclusion of Dehydroascorbate Uptake by Glucose Transporters?. Journal of Theoretical Biology, 2002, 216, 345-359.	1.7	34
69	Glucose-induced activation of glucose uptake in cells from the inner and outer blood-retinal barrier. Investigative Ophthalmology and Visual Science, 2002, 43, 2356-63.	3.3	28
70	Exocytosis in the Dissociated Pancreatic Acinar Cells of the Guinea Pig Directly Visualized by VEC-DIC Microscopy. Biochemical and Biophysical Research Communications, 2000, 277, 134-137.	2.1	6
71	Glucose transporters control gene expression of aldose reductase, PKCÎ±, and GLUT1 in mesangial cells in vitro. American Journal of Physiology - Renal Physiology, 1999, 277, F97-F104.	2.7	25
72	Glucose-specific regulation of aldose reductase in capan-1 human pancreatic duct cells In vitro.. Journal of Clinical Investigation, 1997, 100, 1685-1692.	8.2	23

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73	Inhibition by a receptor-mediated Ca2+ entry blocker, SK & F 96365, of Ca2+ and secretory responses in rat pancreatic acini. European Journal of Pharmacology, 1993, 247, 273-281.	2.6	10
74	Competitive inhibition by procaine of carbacholâ€induced stimulusâ€secretion coupling in rat pancreatic acini. British Journal of Pharmacology, 1993, 110, 603-608.	5.4	3