

# Elizabeth R Seaquist

## List of Publications by Year in descending order

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79  
papers

7,522  
citations

117571

34  
h-index

66879

78  
g-index

79  
all docs

79  
docs citations

79  
times ranked

7721  
citing authors

#	ARTICLE	IF	CITATIONS
1	Different FreeSurfer versions might generate different statistical outcomes in case-control comparison studies. <i>Neuroradiology</i> , 2022, 64, 765-773.	1.1	8
2	Heterogeneity in epinephrine response to experimental hypoglycemia in type 1 diabetes and controls. <i>Journal of the Endocrine Society</i> , 2022, 6, bvac046.	0.1	1
3	The cross-sectional association of renal dysfunction with tests of cognition in middle-aged adults with early type 2 diabetes. <i>Journal of Diabetes and Its Complications</i> , 2021, 35, 107805.	1.2	7
4	Association of Glycemia, Lipids, and Blood Pressure With Cognitive Performance in People With Type 2 Diabetes in the Glycemia Reduction Approaches in Diabetes: A Comparative Effectiveness Study (GRADE). <i>Diabetes Care</i> , 2021, 44, 2286-2292.	4.3	4
5	Monitoring the Neurotransmitter Response to Glycemic Changes Using an Advanced Magnetic Resonance Spectroscopy Protocol at 7T. <i>Frontiers in Neurology</i> , 2021, 12, 698675.	1.1	7
6	The cross-sectional association of cognition with diabetic peripheral and autonomic neuropathy-The GRADE study. <i>Journal of Diabetes and Its Complications</i> , 2021, 35, 108047.	1.2	3
7	Celebrating 100...years of insulin with Dr Elizabeth Seaquist. <i>DMM Disease Models and Mechanisms</i> , 2021, 14, .	1.2	1
8	Hippocampal Neurochemical Profile and Glucose Transport Kinetics in Patients With Type 1 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020, 105, 479-491.	1.8	6
9	Redefining Hypoglycemia in Clinical Trials: Validation of Definitions Recently Adopted by the American Diabetes Association/European Association for the Study of Diabetes. <i>Diabetes Care</i> , 2020, 43, 398-404.	4.3	23
10	Multiple predictively equivalent risk models for handling missing data at time of prediction: With an application in severe hypoglycemia risk prediction for type 2 diabetes. <i>Journal of Biomedical Informatics</i> , 2020, 103, 103379.	2.5	12
11	Infusion of N-acetyl cysteine during hypoglycaemia in humans does not preserve the counterregulatory response to subsequent hypoglycaemia. <i>Endocrinology, Diabetes and Metabolism</i> , 2020, 3, e00144.	1.0	2
12	Structural Alterations in Deep Brain Structures in Type 1 Diabetes. <i>Diabetes</i> , 2020, 69, 2458-2466.	0.3	13
13	How Significant Is Severe Hypoglycemia in Older Adults With Diabetes?. <i>Diabetes Care</i> , 2020, 43, 512-514.	4.3	13
14	Prevalence of microvascular and macrovascular disease in the Glycemia Reduction Approaches in Diabetes - A Comparative Effectiveness (GRADE) Study cohort. <i>Diabetes Research and Clinical Practice</i> , 2020, 165, 108235.	1.1	20
15	Central Mechanisms of Glucose Sensing and Counterregulation in Defense of Hypoglycemia. <i>Endocrine Reviews</i> , 2019, 40, 768-788.	8.9	64
16	Hypoglycemia in diabetes: The dark side of diabetes treatment. A patient-centered review. <i>Journal of Diabetes</i> , 2019, 11, 711-718.	0.8	35
17	Hypoglycaemia, cardiovascular disease, and mortality in diabetes: epidemiology, pathogenesis, and management. <i>Lancet Diabetes and Endocrinology</i> , 2019, 7, 385-396.	5.5	298
18	State-Dependent Changes in Brain Glycogen Metabolism. <i>Advances in Neurobiology</i> , 2019, 23, 269-309.	1.3	6

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19	Duration and onset of action of high dose U $\leq$ 500 regular insulin in severely insulin resistant subjects with type 2 diabetes. <i>Endocrinology, Diabetes and Metabolism</i> , 2018, 1, e00041.	1.0	4
20	Development of a model to predict 5-year risk of severe hypoglycemia in patients with type 2 diabetes. <i>BMJ Open Diabetes Research and Care</i> , 2018, 6, e000527.	1.2	22
21	Association between mild and severe hypoglycemia in people with type 2 diabetes initiating insulin. <i>Journal of Diabetes and Its Complications</i> , 2017, 31, 1047-1052.	1.2	15
22	Response to Comment on Pathak et al. Severe Hypoglycemia Requiring Medical Intervention in a Large Cohort of Adults With Diabetes Receiving Care in U.S. Integrated Health Care Delivery Systems: 2005 $\leq$ 2011. <i>Diabetes Care</i> 2016;39:363 $\leq$ 370. <i>Diabetes Care</i> , 2017, 40, e26-e26.	4.3	0
23	Hypoglycemia in Diabetes. <i>JAMA - Journal of the American Medical Association</i> , 2017, 318, 31.	3.8	13
24	Cerebral glycogen in humans following acute and recurrent hypoglycemia: Implications on a role in hypoglycemia unawareness. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 2883-2893.	2.4	30
25	Measurement of Hypothalamic Glucose Under Euglycemia and Hyperglycemia by MRI at 3T. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 681-691.	1.9	14
26	Hypothalamic Glucose Transport in Humans During Experimentally Induced Hypoglycemia-Associated Autonomic Failure. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2017, 102, 3571-3580.	1.8	15
27	Type 1 Diabetes and Impaired Awareness of Hypoglycemia Are Associated with Reduced Brain Gray Matter Volumes. <i>Frontiers in Neuroscience</i> , 2017, 11, 529.	1.4	25
28	Changes in diabetes medications in the Diabetes and Periodontal Therapy Trial and their effect on hemoglobin A1c (HbA 1c ). <i>Contemporary Clinical Trials</i> , 2016, 50, 21-27.	0.8	4
29	Severe Hypoglycemia Requiring Medical Intervention in a Large Cohort of Adults With Diabetes Receiving Care in U.S. Integrated Health Care Delivery Systems: 2005 $\leq$ 2011. <i>Diabetes Care</i> , 2016, 39, 363-370.	4.3	121
30	Effect of Intensive Blood Pressure Lowering on Incident Atrial Fibrillation and P-Wave Indices in the ACCORD Blood Pressure Trial. <i>American Journal of Hypertension</i> , 2016, 29, 1276-1282.	1.0	36
31	Feasibility and reproducibility of neurochemical profile quantification in the human hippocampus at 3 $\leq$ T. <i>NMR in Biomedicine</i> , 2015, 28, 685-693.	1.6	46
32	Naltrexone for treatment of impaired awareness of hypoglycemia in type 1 diabetes: A randomized clinical trial. <i>Journal of Diabetes and Its Complications</i> , 2015, 29, 1277-1282.	1.2	16
33	Revisiting Glycogen Content in the Human Brain. <i>Neurochemical Research</i> , 2015, 40, 2473-2481.	1.6	38
34	2014 Presidential Address: Stop Diabetes $\leq$ It Is Up to Us. <i>Diabetes Care</i> , 2015, 38, 737-742.	4.3	2
35	Sitagliptin Results in a Decrease of Truncated Apolipoprotein C1. <i>Diabetes Therapy</i> , 2015, 6, 395-401.	1.2	11
36	In vivo Magnetic Resonance Spectroscopy of cerebral glycogen metabolism in animals and humans. <i>Metabolic Brain Disease</i> , 2015, 30, 255-261.	1.4	11

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37	The Impact of Diabetes on Cerebral Structure and Function. <i>Psychosomatic Medicine</i> , 2015, 77, 616-621.	1.3	53
38	Hypoglycaemia, emergency care and diabetes mellitus. <i>Nature Reviews Endocrinology</i> , 2014, 10, 384-385.	4.3	3
39	Training status diverges muscle diacylglycerol accumulation during free fatty acid elevation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014, 307, E124-E131.	1.8	24
40	Addressing the Burden of Diabetes. <i>JAMA - Journal of the American Medical Association</i> , 2014, 311, 2267.	3.8	31
41	Changes in Human Brain Glutamate Concentration during Hypoglycemia: Insights into Cerebral Adaptations in Hypoglycemia-Associated Autonomic Failure in Type 1 Diabetes. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 876-882.	2.4	27
42	Hypoglycemia as a Driver of Cardiovascular Risk in Diabetes. <i>Current Atherosclerosis Reports</i> , 2013, 15, 351.	2.0	24
43	Effect of thiazolidinediones and insulin on cognitive outcomes in ACCORD-MIND. <i>Journal of Diabetes and Its Complications</i> , 2013, 27, 485-491.	1.2	41
44	Hypoglycemia and Diabetes: A Report of a Workgroup of the American Diabetes Association and The Endocrine Society. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013, 98, 1845-1859.	1.8	223
45	Neurochemical Profile of Patients with Type 1 Diabetes Measured by <sup>1</sup> H-MRS at 4 T. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 754-759.	2.4	36
46	The Effect of Nonsurgical Periodontal Therapy on Hemoglobin A <sub>1c</sub> Levels in Persons With Type 2 Diabetes and Chronic Periodontitis. <i>JAMA - Journal of the American Medical Association</i> , 2013, 310, 2523.	3.8	211
47	Hypoglycemia and Diabetes: A Report of a Workgroup of the American Diabetes Association and The Endocrine Society. <i>Diabetes Care</i> , 2013, 36, 1384-1395.	4.3	1,125
48	Hypoglycemia-Induced Increases in Thalamic Cerebral Blood Flow are Blunted in Subjects with Type 1 Diabetes and Hypoglycemia Unawareness. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 2084-2090.	2.4	40
49	Brain Glycogen Content and Metabolism in Subjects with Type 1 Diabetes and Hypoglycemia Unawareness. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 256-263.	2.4	54
50	Poor Cognitive Function and Risk of Severe Hypoglycemia in Type 2 Diabetes. <i>Diabetes Care</i> , 2012, 35, 787-793.	4.3	291
51	The Impact of Frequent and Unrecognized Hypoglycemia on Mortality in the ACCORD Study. <i>Diabetes Care</i> , 2012, 35, 409-414.	4.3	134
52	American Diabetes Association Research Symposium: Diabetes and the Brain. <i>Diabetes</i> , 2012, 61, 3056-3062.	0.3	10
53	Severe hypoglycemia symptoms, antecedent behaviors, immediate consequences and association with glycemia medication usage: Secondary analysis of the ACCORD clinical trial data. <i>BMC Endocrine Disorders</i> , 2012, 12, 5.	0.9	58
54	Sweet and Low: Measuring Brain Glucose During Hypoglycemia: FIG. 1.. <i>Diabetes</i> , 2012, 61, 1918-1919.	0.3	3

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55	Noninvasive measurement of brain glycogen by nuclear magnetic resonance spectroscopy and its application to the study of brain metabolism. <i>Journal of Neuroscience Research</i> , 2011, 89, 1905-1912.	1.3	11
56	Epidemiologic Relationships Between A1C and All-Cause Mortality During a Median 3.4-Year Follow-up of Glycemic Treatment in the ACCORD Trial. <i>Diabetes Care</i> , 2010, 33, 983-990.	4.3	389
57	The Final Frontier: How Does Diabetes Affect the Brain?. <i>Diabetes</i> , 2010, 59, 4-5.	0.3	59
58	The association between symptomatic, severe hypoglycaemia and mortality in type 2 diabetes: retrospective epidemiological analysis of the ACCORD study. <i>BMJ: British Medical Journal</i> , 2010, 340, b4909-b4909.	2.4	807
59	Approach to the Patient with Type 2 Diabetes and Progressive Kidney Disease. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2010, 95, 3103-3110.	1.8	22
60	The effects of baseline characteristics, glycaemia treatment approach, and glycated haemoglobin concentration on the risk of severe hypoglycaemia: post hoc epidemiological analysis of the ACCORD study. <i>BMJ: British Medical Journal</i> , 2010, 340, b5444-b5444.	2.4	359
61	Evaluation and Management of Adult Hypoglycemic Disorders: An Endocrine Society Clinical Practice Guideline. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2009, 94, 709-728.	1.8	976
62	Human Brain Glycogen Metabolism During and After Hypoglycemia. <i>Diabetes</i> , 2009, 58, 1978-1985.	0.3	97
63	Practical strategies to normalize hyperglycemia without undue hypoglycemia in type 2 diabetes mellitus. <i>Current Diabetes Reports</i> , 2008, 8, 375-382.	1.7	2
64	Postnatal age influences hypoglycemia-induced neuronal injury in the rat brain. <i>Brain Research</i> , 2008, 1224, 119-126.	1.1	47
65	Diffusion Tensor Imaging Identifies Deficits in White Matter Microstructure in Subjects With Type 1 Diabetes That Correlate With Reduced Neurocognitive Function. <i>Diabetes</i> , 2008, 57, 3083-3089.	0.3	167
66	Human brain glycogen content and metabolism: implications on its role in brain energy metabolism. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 292, E946-E951.	1.8	114
67	Insulin Reduces the BOLD Response but is without Effect on the VEP during Presentation of a Visual Task in Humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007, 27, 154-160.	2.4	24
68	Brain glucose concentrations in patients with type 1 diabetes and hypoglycemia unawareness. <i>Journal of Neuroscience Research</i> , 2005, 79, 42-47.	1.3	88
69	Brain glucose concentrations in healthy humans subjected to recurrent hypoglycemia. <i>Journal of Neuroscience Research</i> , 2005, 82, 525-530.	1.3	34
70	Brain glucose concentrations in poorly controlled diabetes mellitus as measured by high-field magnetic resonance spectroscopy. <i>Metabolism: Clinical and Experimental</i> , 2005, 54, 1008-1013.	1.5	44
71	Effect of hypoglycemia on brain glycogen metabolism in vivo. <i>Journal of Neuroscience Research</i> , 2003, 72, 25-32.	1.3	186
72	Direct, noninvasive measurement of brain glycogen metabolism in humans. <i>Neurochemistry International</i> , 2003, 43, 323-329.	1.9	86

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73	A mathematical model of compartmentalized neurotransmitter metabolism in the human brain. American Journal of Physiology - Endocrinology and Metabolism, 2001, 281, E100-E112.	1.8	290
74	Effect of acute hyperglycemia on visual cortical activation as measured by functional MRI. Journal of Neuroscience Research, 2000, 62, 279-285.	1.3	19
75	The use of the hypoglycaemic clamp in the assessment of pituitary function. Clinical Endocrinology, 1999, 51, 709-714.	1.2	4
76	Identification of a high concentration of scyllo-inositol in the brain of a healthy human subject using <sup>1</sup> H- and <sup>13</sup> C-NMR. Magnetic Resonance in Medicine, 1998, 39, 313-316.	1.9	42
77	Steady-State Cerebral Glucose Concentrations and Transport in the Human Brain. Journal of Neurochemistry, 1998, 70, 397-408.	2.1	215
78	Comparison of arterialized venous sampling from the hand and foot in the assessment of in vivo glucose metabolism. Metabolism: Clinical and Experimental, 1997, 46, 1364-1366.	1.5	19
79	Observation of resolved glucose signals in <sup>1</sup> H NMR spectra of the human brain at 4 Tesla. Magnetic Resonance in Medicine, 1996, 36, 1-6.	1.9	87