

# Julia Szendrői

## List of Publications by Year in descending order

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85  
papers

5,485  
citations

117453

34  
h-index

85405

71  
g-index

89  
all docs

89  
docs citations

89  
times ranked

8370  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Adaptation of Hepatic Mitochondrial Function in Humans with Non-Alcoholic Fatty Liver Is Lost in Steatohepatitis. <i>Cell Metabolism</i> , 2015, 21, 739-746.  | 7.2 | 706       |
| 2  | The role of mitochondria in insulin resistance and type 2 diabetes mellitus. <i>Nature Reviews Endocrinology</i> , 2012, 8, 92-103.  | 4.3 | 471       |
| 3  | Risk of diabetes-associated diseases in subgroups of patients with recent-onset diabetes: a 5-year follow-up study. <i>Lancet Diabetes and Endocrinology</i> , 2019, 7, 684-694.   | 5.5 | 364       |
| 4  | Role of diacylglycerol activation of PKC $\beta$ in lipid-induced muscle insulin resistance in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9597-9602.  | 3.3 | 326       |
| 5  | The H19/let-7 double-negative feedback loop contributes to glucose metabolism in muscle cells. <i>Nucleic Acids Research</i> , 2014, 42, 13799-13811.  | 6.5 | 218       |
| 6  | Muscle Mitochondrial ATP Synthesis and Glucose Transport/Phosphorylation in Type 2 Diabetes. <i>PLoS Medicine</i> , 2007, 4, e154.   | 3.9 | 216       |
| 7  | The Mammalian Target of Rapamycin Pathway Regulates Nutrient-Sensitive Glucose Uptake in Man. <i>Diabetes</i> , 2007, 56, 1600-1607.   | 0.3 | 210       |
| 8  | Liver ATP Synthesis Is Lower and Relates to Insulin Sensitivity in Patients With Type 2 Diabetes. <i>Diabetes Care</i> , 2011, 34, 448-453.  | 4.3 | 177       |
| 9  | Ectopic lipids and organ function. <i>Current Opinion in Lipidology</i> , 2009, 20, 50-56.   | 1.2 | 172       |
| 10 | Abnormal hepatic energy homeostasis in type 2 diabetes. <i>Hepatology</i> , 2009, 50, 1079-1086.   | 3.6 | 166       |
| 11 | Mechanisms of Insulin Resistance in Primary and Secondary Nonalcoholic Fatty Liver. <i>Diabetes</i> , 2017, 66, 2241-2253.   | 0.3 | 124       |
| 12 | Short-term dietary reduction of branched-chain amino acids reduces meal-induced insulin secretion and modifies microbiome composition in type 2 diabetes: a randomized controlled crossover trial. <i>American Journal of Clinical Nutrition</i> , 2019, 110, 1098-1107. | 2.2 | 119       |
| 13 | Mechanisms Underlying the Onset of Oral Lipid-Induced Skeletal Muscle Insulin Resistance in Humans. <i>Diabetes</i> , 2013, 62, 2240-2248.   | 0.3 | 102       |
| 14 | Evidence for a Direct Effect of the NAD <sup>+</sup> Precursor Acipimox on Muscle Mitochondrial Function in Humans. <i>Diabetes</i> , 2015, 64, 1193-1201.   | 0.3 | 99        |
| 15 | Cohort profile: the German Diabetes Study (GDS). <i>Cardiovascular Diabetology</i> , 2016, 15, 59.   | 2.7 | 97        |
| 16 | Pancreatic adipose tissue infiltration, parenchymal steatosis and beta cell function in humans. <i>Diabetologia</i> , 2015, 58, 1646-1655.   | 2.9 | 93        |
| 17 | The role of metformin and thiazolidinediones in the regulation of hepatic glucose metabolism and its clinical impact. <i>Trends in Pharmacological Sciences</i> , 2011, 32, 607-616.   | 4.0 | 80        |
| 18 | Effects of Intranasal Insulin on Hepatic Fat Accumulation and Energy Metabolism in Humans. <i>Diabetes</i> , 2015, 64, 1966-1975.  | 0.3 | 70        |

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|----|---|-----|-----------|
| 19 | Impaired Mitochondrial Function and Insulin Resistance of Skeletal Muscle in Mitochondrial Diabetes. <i>Diabetes Care</i> , 2009, 32, 677-679.  | 4.3 | 64        |
| 20 | Specific Metabolic Profiles and Their Relationship to Insulin Resistance in Recent-Onset Type 1 and Type 2 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016, 101, 2130-2140.  | 1.8 | 64        |
| 21 | Leukocyte Profiles Differ Between Type 1 and Type 2 Diabetes and Are Associated With Metabolic Phenotypes: Results From the German Diabetes Study (GDS). <i>Diabetes Care</i> , 2014, 37, 2326-2333.  | 4.3 | 63        |
| 22 | Short-Term Exercise Training Does Not Stimulate Skeletal Muscle ATP Synthesis in Relatives of Humans With Type 2 Diabetes. <i>Diabetes</i> , 2009, 58, 1333-1341.   | 0.3 | 62        |
| 23 | Patterns of cutaneous nerve fibre loss and regeneration in type 2 diabetes with painful and painless polyneuropathy. <i>Diabetologia</i> , 2017, 60, 2495-2503.   | 2.9 | 54        |
| 24 | Reduction of non-esterified fatty acids improves insulin sensitivity and lowers oxidative stress, but fails to restore oxidative capacity in type 2 diabetes: a randomised clinical trial. <i>Diabetologia</i> , 2014, 57, 572-581.               | 2.9 | 51        |
| 25 | Tissue-Specific Differences in the Development of Insulin Resistance in a Mouse Model for Type 1 Diabetes. <i>Diabetes</i> , 2014, 63, 3856-3867.   | 0.3 | 51        |
| 26 | Effects of High-Dose Simvastatin Therapy on Glucose Metabolism and Ectopic Lipid Deposition in Nonobese Type 2 Diabetic Patients. <i>Diabetes Care</i> , 2009, 32, 209-214.   | 4.3 | 49        |
| 27 | Dynamic changes of muscle insulin sensitivity after metabolic surgery. <i>Nature Communications</i> , 2019, 10, 4179.   | 5.8 | 47        |
| 28 | Prediction of clamp-derived insulin sensitivity from the oral glucose insulin sensitivity index. <i>Diabetologia</i> , 2018, 61, 1135-1141.   | 2.9 | 45        |
| 29 | Role of Patatin-Like Phospholipase Domain-Containing 3 Gene for Hepatic Lipid Content and Insulin Resistance in Diabetes. <i>Diabetes Care</i> , 2020, 43, 2161-2168.   | 4.3 | 45        |
| 30 | Breathlessness and Restrictive Lung Disease: An Important Diabetes-Related Feature in Patients with Type 2 Diabetes. <i>Respiration</i> , 2018, 96, 29-40.  | 1.2 | 44        |
| 31 | Mitochondrial Function and Insulin Resistance during Aging – A Mini-Review. <i>Gerontology</i> , 2011, 57, 387-396.   | 1.4 | 42        |
| 32 | Body and Liver Fat Mass Rather Than Muscle Mitochondrial Function Determine Glucose Metabolism in Women With a History of Gestational Diabetes Mellitus. <i>Diabetes Care</i> , 2011, 34, 430-436.  | 4.3 | 42        |
| 33 | The Role of Markers of Low-Grade Inflammation for the Early Time Course of Glycemic Control, Glucose Disappearance Rate, and $\beta$ -Cell Function in Recently Diagnosed Type 1 and Type 2 Diabetes. <i>Diabetes Care</i> , 2015, 38, 1758-1767. | 4.3 | 40        |
| 34 | Adiponectin, markers of subclinical inflammation and nerve conduction in individuals with recently diagnosed type 1 and type 2 diabetes. <i>European Journal of Endocrinology</i> , 2016, 174, 433-443.   | 1.9 | 38        |
| 35 | A macrophage-hepatocyte glucocorticoid receptor axis coordinates fasting ketogenesis. <i>Cell Metabolism</i> , 2022, 34, 473-486.e9.  | 7.2 | 34        |
| 36 | Postprandial and Fasting Hepatic Glucose Fluxes in Long-Standing Type 1 Diabetes. <i>Diabetes</i> , 2011, 60, 1752-1758.  | 0.3 | 33        |

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|----|---|-----|-----------|
| 37 | Early changes in hepatic energy metabolism and lipid content in recent-onset type 1 and 2 diabetes mellitus. <i>Journal of Hepatology</i> , 2021, 74, 1028-1037.  | 1.8 | 32        |
| 38 | Insulin Resistance and Vulnerability to Cardiac Ischemia. <i>Diabetes</i> , 2018, 67, 2695-2702.  | 0.3 | 31        |
| 39 | Time course of postprandial hepatic phosphorus metabolites in lean, obese, and type 2 diabetes patients. <i>American Journal of Clinical Nutrition</i> , 2015, 102, 1051-1058.                                      | 2.2 | 30        |
| 40 | Lower serum extracellular superoxide dismutase levels are associated with polyneuropathy in recent-onset diabetes. <i>Experimental and Molecular Medicine</i> , 2017, 49, e394-e394.                                | 3.2 | 29        |
| 41 | Reduced Basal ATP Synthetic Flux of Skeletal Muscle in Patients with Previous Acromegaly. <i>PLoS ONE</i> , 2008, 3, e3958.   | 1.1 | 29        |
| 42 | Association of Lower Cardiovascular Tone and Baroreflex Sensitivity With Higher Liver Fat Content Early in Type 2 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018, 103, 1130-1138.         | 1.8 | 28        |
| 43 | Lower Fasting Muscle Mitochondrial Activity Relates to Hepatic Steatosis in Humans. <i>Diabetes Care</i> , 2014, 37, 468-474.   | 4.3 | 26        |
| 44 | Differential Patterns of Impaired Cardiorespiratory Fitness and Cardiac Autonomic Dysfunction in Recently Diagnosed Type 1 and Type 2 Diabetes. <i>Diabetes Care</i> , 2017, 40, 246-252.                           | 4.3 | 26        |
| 45 | A Single Nucleotide Polymorphism Associates With the Response of Muscle ATP Synthesis to Long-Term Exercise Training in Relatives of Type 2 Diabetic Humans. <i>Diabetes Care</i> , 2012, 35, 350-357.              | 4.3 | 25        |
| 46 | Metabolic flexibility and oxidative capacity independently associate with insulin sensitivity in individuals with newly diagnosed type 2 diabetes. <i>Diabetologia</i> , 2016, 59, 2203-2207.                       | 2.9 | 25        |
| 47 | Differential associations of lower cardiac vagal tone with insulin resistance and insulin secretion in recently diagnosed type 1 and type 2 diabetes. <i>Metabolism: Clinical and Experimental</i> , 2018, 79, 1-9. | 1.5 | 25        |
| 48 | Neuron-specific biomarkers predict hypo- and hyperalgesia in individuals with diabetic peripheral neuropathy. <i>Diabetologia</i> , 2021, 64, 2843-2855.  | 2.9 | 25        |
| 49 | Lipid-Induced Insulin Resistance Is Not Mediated by Impaired Transcapillary Transport of Insulin and Glucose in Humans. <i>Diabetes</i> , 2012, 61, 3176-3180.  | 0.3 | 24        |
| 50 | Associations between inflammation-related biomarkers and depressive symptoms in individuals with recently diagnosed type 1 and type 2 diabetes. <i>Brain, Behavior, and Immunity</i> , 2017, 61, 137-145.           | 2.0 | 24        |
| 51 | A variant of the glucose transporter gene SLC2A2 modifies the glycaemic response to metformin therapy in recently diagnosed type 2 diabetes. <i>Diabetologia</i> , 2019, 62, 286-291.                               | 2.9 | 24        |
| 52 | Metabolic responsiveness to training depends on insulin sensitivity and protein content of exosomes in insulin-resistant males. <i>Science Advances</i> , 2021, 7, eabi9551.  | 4.7 | 24        |
| 53 | Skeletal Muscle Phosphodiester Content Relates to Body Mass and Glycemic Control. <i>PLoS ONE</i> , 2011, 6, e21846.  | 1.1 | 22        |
| 54 | Association of transketolase polymorphisms with measures of polyneuropathy in patients with recently diagnosed diabetes. <i>Diabetes/Metabolism Research and Reviews</i> , 2017, 33, e2811.                         | 1.7 | 22        |

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|----|--|-----|-----------|
| 55 | In vivo <sup>19</sup> F MR inflammation imaging after myocardial infarction in a large animal model at 3ÅT. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2019, 32, 5-13.  | 1.1 | 22        |
| 56 | Variants in Genes Controlling Oxidative Metabolism Contribute to Lower Hepatic ATP Independent of Liver Fat Content in Type 1 Diabetes. <i>Diabetes</i> , 2016, 65, 1849-1857.   | 0.3 | 21        |
| 57 | Metabolic Characteristics of Recently Diagnosed Adult-Onset Autoimmune Diabetes Mellitus. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018, 103, 429-437.  | 1.8 | 21        |
| 58 | Leukocyte Counts and T-Cell Frequencies Differ Between Novel Subgroups of Diabetes and Are Associated With Metabolic Parameters and Biomarkers of Inflammation. <i>Diabetes</i> , 2021, 70, 2652-2662.   | 0.3 | 21        |
| 59 | Association of cardiac autonomic dysfunction with higher levels of plasma lipid metabolites in recent-onset type 2 diabetes. <i>Diabetologia</i> , 2021, 64, 458-468.  | 2.9 | 20        |
| 60 | Insulin Infusion During Normoglycemia Modulates Insulin Secretion According to Whole-Body Insulin Sensitivity. <i>Diabetes Care</i> , 2011, 34, 437-441.   | 4.3 | 18        |
| 61 | Six-Month Periodic Fasting in Patients With Type 2 Diabetes and Diabetic Nephropathy: A Proof-of-Concept Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2022, 107, 2167-2181.  | 1.8 | 18        |
| 62 | Metabolic Determinants of Impaired Pulmonary Function in Patients with Newly Diagnosed Type 2 Diabetes Mellitus. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 2018, 126, 584-589.   | 0.6 | 16        |
| 63 | Speeding the Recovery from Ultraslow Inactivation of Voltage-Gated Na <sup>+</sup> Channels by Metal Ion Binding to the Selectivity Filter: A Foot-on-the-Door?. <i>Biophysical Journal</i> , 2007, 93, 4209-4224.                                   | 0.2 | 14        |
| 64 | Progression and regression of nerve fibre pathology and dysfunction early in diabetes over 5 years. <i>Brain</i> , 2021, 144, 3251-3263.   | 3.7 | 14        |
| 65 | What information needs do people with recently diagnosed diabetes mellitus have and what are the associated factors? A cross-sectional study in Germany. <i>BMJ Open</i> , 2018, 8, e017895.   | 0.8 | 12        |
| 66 | Augmented Corneal Nerve Fiber Branching in Painful Compared With Painless Diabetic Neuropathy. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2019, 104, 6220-6228.   | 1.8 | 12        |
| 67 | <sup>1</sup> H-MRS of femoral red and yellow bone marrow fat composition and water content in healthy young men and women at 3ÅT. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2019, 32, 591-597.                         | 1.1 | 11        |
| 68 | Reduced Myocardial Mitochondrial ROS Production in Mechanically Unloaded Hearts. <i>Journal of Cardiovascular Translational Research</i> , 2019, 12, 107-115.  | 1.1 | 11        |
| 69 | Branched-Chain Amino Acids Associate Negatively With Postprandial Insulin Secretion in Recent-Onset Diabetes. <i>Journal of the Endocrine Society</i> , 2021, 5, bvab067.  | 0.1 | 11        |
| 70 | Characterization of circulating leukocytes and correlation of leukocyte subsets with metabolic parameters 1 and 5Åyears after diabetes diagnosis. <i>Acta Diabetologica</i> , 2018, 55, 723-731.   | 1.2 | 10        |
| 71 | Effectiveness of real-time continuous glucose monitoring to improve glycaemic control and pregnancy outcome in patients with gestational diabetes mellitus: a study protocol for a randomised controlled trial. <i>BMJ Open</i> , 2020, 10, e040498. | 0.8 | 10        |
| 72 | Differential Patterns and Determinants of Cardiac Autonomic Nerve Dysfunction during Endotoxemia and Oral Fat Load in Humans. <i>PLoS ONE</i> , 2015, 10, e0124242.  | 1.1 | 10        |

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|----|--|------|-----------|
| 73 | Deep subcutaneous adipose tissue lipid unsaturation associates with intramyocellular lipid content. <i>Metabolism: Clinical and Experimental</i> , 2016, 65, 1230-1237.  | 1.5  | 9         |
| 74 | Oral Semaglutide and Cardiovascular Outcomes in Type 2 Diabetes. <i>New England Journal of Medicine</i> , 2019, 381, 2075-2077.  | 13.9 | 9         |
| 75 | Accumulation of acetaldehyde in aldh2.1 zebrafish causes increased retinal angiogenesis and impaired glucose metabolism. <i>Redox Biology</i> , 2022, 50, 102249.  | 3.9  | 9         |
| 76 | Interaction between magnesium and methylglyoxal in diabetic polyneuropathy and neuronal models. <i>Molecular Metabolism</i> , 2021, 43, 101114.  | 3.0  | 7         |
| 77 | Diabetes clusters and risk of diabetes-associated diseases – Authors' reply. <i>Lancet Diabetes and Endocrinology</i> , 2019, 7, 828-829.  | 5.5  | 6         |
| 78 | Correlates of Insulin-Stimulated Glucose Disposal in Recent-Onset Type 1 and Type 2 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2019, 104, 2295-2304.  | 1.8  | 6         |
| 79 | Exposure to Type 2 Diabetes Provokes Mitochondrial Impairment in Apparently Healthy Human Hearts. <i>Diabetes Care</i> , 2021, 44, e82-e84.  | 4.3  | 5         |
| 80 | Impact of insulin sensitivity, beta-cell function and glycaemic control on initiation of second-line glucose-lowering treatment in newly diagnosed type 2 diabetes. <i>Diabetes, Obesity and Metabolism</i> , 2017, 19, 866-873. | 2.2  | 3         |
| 81 | Socioeconomic inequalities in glycaemic control in recently diagnosed adults with type 1 and type 2 diabetes. <i>Diabetic Medicine</i> , 2022, 39, e14833.   | 1.2  | 3         |
| 82 | Hepatocyte-specific activity of TSC22D4 triggers progressive NAFLD by impairing mitochondrial function. <i>Molecular Metabolism</i> , 2022, 60, 101487.  | 3.0  | 3         |
| 83 | Hepatic energy metabolism in a family with a glucokinase gene mutation and dysglycemia. <i>Diabetes Research and Clinical Practice</i> , 2022, 185, 109779.  | 1.1  | 1         |
| 84 | In vivo absolute quantification of hepatic $^{31}\text{P}$ -ATP concentration in mice using 31 P MRS at 11.7 T. <i>NMR in Biomedicine</i> , 2021, 34, e4422.   | 1.6  | 0         |
| 85 | Methylglyoxal Induces Endothelial Dysfunction via a Stunning-like Phenotype. <i>Diabetologie Und Stoffwechsel</i> , 2022, , .  | 0.0  | 0         |