Richard M O'brien

List of Publications by Year
in descending order

27 papers	832 citations	623734 14 h-index	526287 27 g-index
28 all docs	28 docs citations	28 times ranked	1391 citing authors

#	Article	IF	Citations
1	Biophysical and functional properties of purified glucose-6-phosphatase catalytic subunit 1. Journal of Biological Chemistry, 2022, 298, 101520.	3.4	6
2	Nonsynonymous single-nucleotide polymorphisms in the G6PC2 gene affect protein expression, enzyme activity, and fasting blood glucose. Journal of Biological Chemistry, 2022, 298, 101534.	3.4	9
3	Glucose-6-phosphatase catalytic subunit 2 negatively regulates glucose oxidation and insulin secretion in pancreatic Î²-cells. Journal of Biological Chemistry, 2022, 298, 101729.	3.4	8
4	G6PC2 confers protection against hypoglycemia upon ketogenic diet feeding and prolonged fasting. Molecular Metabolism, 2020, 41, 101043.	6.5	6
5	Ins1-Cre and Ins1-CreER Gene Replacement Alleles Are Susceptible To Silencing By DNA Hypermethylation. Endocrinology, 2020, 161, .	2.8	24
6	Pancreatic islet beta cell-specific deletion of G6pc2 reduces fasting blood glucose. Journal of Molecular Endocrinology, 2020, 64, 235-248.	2.5	16
7	Potential positive and negative consequences of ZnT8 inhibition. Journal of Endocrinology, 2020, 246, 189-205.	2.6	10
8	Evidence that Evolution of the Diabetes Susceptibility Gene SLC30A8 that Encodes the Zinc Transporter ZnT8 Drives Variations in Pancreatic Islet Zinc Content in Multiple Species. Journal of Molecular Evolution, 2019, 87, 147-151.	1.8	6
9	The Diabetes Susceptibility Gene SLC30A8 that Encodes the Zinc Transporter ZnT8 is a Pseudogene in Guinea Pigs Potentially Contributing to Low Guinea Pig Islet Zinc Content. Journal of Molecular Evolution, 2018, 86, 613-617.	1.8	5
10	Effects of G6pc2 deletion on body weight and cholesterol in mice. Journal of Molecular Endocrinology, 2017, 58, 127-139.	2.5	5
11	Crystal structures reveal a new and novel FoxO1 binding site within the human glucose-6-phosphatase catalytic subunit 1 gene promoter. Journal of Structural Biology, 2017, 198, 54-64.	2.8	18
12	G6PC2 Modulates the Effects of Dexamethasone on Fasting Blood Glucose and Glucose Tolerance. Endocrinology, 2016, 157, 4133-4145.	2.8	13
13	G6PC2 Modulates Fasting Blood Glucose In Male Mice in Response to Stress. Endocrinology, 2016, 157, 3002-3008.	2.8	16
14	Combined Deletion of Slc30a7 and Slc30a8 Unmasks a Critical Role for ZnT8 in Glucose-Stimulated Insulin Secretion. Endocrinology, 2016, 157, 4534-4541.	2.8	29
15	Functional Analysis of Mouse G6pc1 Mutations Using a Novel In Situ Assay for Glucose-6-Phosphatase Activity and the Effect of Mutations in Conserved Human G6PC1/G6PC2 Amino Acids on G6PC2 Protein Expression. PLoS ONE, 2016, 11, e0162439.	2.5	9
16	Novel Stable Isotope Analyses Demonstrate Significant Rates of Glucose Cycling in Mouse Pancreatic Islets. Diabetes, 2015, 64, 2129-2137.	0.6	24
17	Zinc transporter 8 (ZnT8) and Î² cell function. Trends in Endocrinology and Metabolism, 2014, 25, 415-424.	7.1	124
18	Moving on from GWAS: Functional Studies on the G6PC2 Gene Implicated in the Regulation of Fasting Blood Glucose. Current Diabetes Reports, 2013, 13, 768-777.	4.2	31

#	Article	IF	Citations
19	G6PC2: A Negative Regulator of Basal Glucose-Stimulated Insulin Secretion. Diabetes, 2013, 62, 1547-1556.	0.6	66
20	The Physiological Effects of Deleting the Mouse Slc30a8 Gene Encoding Zinc Transporter-8 Are Influenced by Gender and Genetic Background. PLoS ONE, 2012, 7, e40972.	2.5	59
21	Genetic and Functional Assessment of the Role of the rs13431652-A and rs573225-A Alleles in the G6PC2 Promoter That Are Strongly Associated With Elevated Fasting Glucose Levels. Diabetes, 2010, 59, 2662-2671.	0.6	31
22	Glucose-6-phosphatase Catalytic Subunit Gene Family. Journal of Biological Chemistry, 2009, 284, 29241-29245.	3.4	145
23	Long-Range Enhancers Are Required to Maintain Expression of the Autoantigen Islet-Specific Glucose-6-Phosphatase Catalytic Subunitâ€"Related Protein in Adult Mouse Islets In Vivo. Diabetes, 2008, 57, 133-141.	0.6	17
24	Deletion of the Gene Encoding the Ubiquitously Expressed Glucose-6-phosphatase Catalytic Subunit-related Protein (UGRP)/Glucose-6-phosphatase Catalytic Subunit-Î² Results in Lowered Plasma Cholesterol and Elevated Glucagon. Journal of Biological Chemistry, 2006, 281, 39982-39989.	3.4	21
25	The Proximal Islet-Specific Glucose-6-Phosphatase Catalytic Subunit-Related Protein Autoantigen Promoter Is Sufficient to Initiate but not Maintain Transgene Expression in Mouse Islets in Vivo. Diabetes, 2004, 53, 1754-1764.	0.6	12
26	Cloning and Characterization of the Human and Rat Islet-specific Glucose-6-phosphatase Catalytic Subunit-related Protein (IGRP) Genes. Journal of Biological Chemistry, 2001, 276, 25197-25207.	3.4	68
27	Hepatocyte nuclear factor-1 acts as an accessory factor to enhance the inhibitory action of insulin on mouse glucose-6-phosphatase gene transcription. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 9208-9213.	7.1	52