

# Richard M O'brien

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Glucose-6-phosphatase Catalytic Subunit Gene Family. <i>Journal of Biological Chemistry</i> , 2009, 284, 29241-29245.	3.4	145
2	Zinc transporter 8 (ZnT8) and $I^2$ cell function. <i>Trends in Endocrinology and Metabolism</i> , 2014, 25, 415-424.	7.1	124
3	Cloning and Characterization of the Human and Rat Islet-specific Glucose-6-phosphatase Catalytic Subunit-related Protein (IGRP) Genes. <i>Journal of Biological Chemistry</i> , 2001, 276, 25197-25207.	3.4	68
4	G6PC2: A Negative Regulator of Basal Glucose-Stimulated Insulin Secretion. <i>Diabetes</i> , 2013, 62, 1547-1556.	0.6	66
5	The Physiological Effects of Deleting the Mouse Slc30a8 Gene Encoding Zinc Transporter-8 Are Influenced by Gender and Genetic Background. <i>PLoS ONE</i> , 2012, 7, e40972.	2.5	59
6	Hepatocyte nuclear factor-1 acts as an accessory factor to enhance the inhibitory action of insulin on mouse glucose-6-phosphatase gene transcription. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 9208-9213.	7.1	52
7	Genetic and Functional Assessment of the Role of the rs13431652-A and rs573225-A Alleles in the $\langle i \rangle$ G6PC2 $\langle /i \rangle$ Promoter That Are Strongly Associated With Elevated Fasting Glucose Levels. <i>Diabetes</i> , 2010, 59, 2662-2671.	0.6	31
8	Moving on from GWAS: Functional Studies on the G6PC2 Gene Implicated in the Regulation of Fasting Blood Glucose. <i>Current Diabetes Reports</i> , 2013, 13, 768-777.	4.2	31
9	Combined Deletion of Slc30a7 and Slc30a8 Unmasks a Critical Role for ZnT8 in Glucose-Stimulated Insulin Secretion. <i>Endocrinology</i> , 2016, 157, 4534-4541.	2.8	29
10	Novel Stable Isotope Analyses Demonstrate Significant Rates of Glucose Cycling in Mouse Pancreatic Islets. <i>Diabetes</i> , 2015, 64, 2129-2137.	0.6	24
11	Ins1-Cre and Ins1-CreER Gene Replacement Alleles Are Susceptible To Silencing By DNA Hypermethylation. <i>Endocrinology</i> , 2020, 161, .	2.8	24
12	Deletion of the Gene Encoding the Ubiquitously Expressed Glucose-6-phosphatase Catalytic Subunit-related Protein (UGRP)/Glucose-6-phosphatase Catalytic Subunit- $I^2$ Results in Lowered Plasma Cholesterol and Elevated Glucagon. <i>Journal of Biological Chemistry</i> , 2006, 281, 39982-39989.	3.4	21
13	Crystal structures reveal a new and novel FoxO1 binding site within the human glucose-6-phosphatase catalytic subunit 1 gene promoter. <i>Journal of Structural Biology</i> , 2017, 198, 54-64.	2.8	18
14	Long-Range Enhancers Are Required to Maintain Expression of the Autoantigen Islet-Specific Glucose-6-Phosphatase Catalytic Subunit-Related Protein in Adult Mouse Islets In Vivo. <i>Diabetes</i> , 2008, 57, 133-141.	0.6	17
15	G6PC2 Modulates Fasting Blood Glucose In Male Mice in Response to Stress. <i>Endocrinology</i> , 2016, 157, 3002-3008.	2.8	16
16	Pancreatic islet beta cell-specific deletion of G6pc2 reduces fasting blood glucose. <i>Journal of Molecular Endocrinology</i> , 2020, 64, 235-248.	2.5	16
17	G6PC2 Modulates the Effects of Dexamethasone on Fasting Blood Glucose and Glucose Tolerance. <i>Endocrinology</i> , 2016, 157, 4133-4145.	2.8	13
18	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. <i>Diabetes</i> , 2004, 53, 1754-1764.	0.6	12

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19	Potential positive and negative consequences of ZnT8 inhibition. <i>Journal of Endocrinology</i> , 2020, 246, 189-205.	2.6	10
20	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. <i>PLoS ONE</i> , 2016, 11, e0162439.	2.5	9
21	Nonsynonymous single-nucleotide polymorphisms in the G6PC2 gene affect protein expression, enzyme activity, and fasting blood glucose. <i>Journal of Biological Chemistry</i> , 2022, 298, 101534.	3.4	9
22	Glucose-6-phosphatase catalytic subunit 2 negatively regulates glucose oxidation and insulin secretion in pancreatic $\beta$ -cells. <i>Journal of Biological Chemistry</i> , 2022, 298, 101729.	3.4	8
23	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. <i>Journal of Molecular Evolution</i> , 2019, 87, 147-151.	1.8	6
24	G6PC2 confers protection against hypoglycemia upon ketogenic diet feeding and prolonged fasting. <i>Molecular Metabolism</i> , 2020, 41, 101043.	6.5	6
25	Biophysical and functional properties of purified glucose-6-phosphatase catalytic subunit 1. <i>Journal of Biological Chemistry</i> , 2022, 298, 101520.	3.4	6
26	Effects of G6pc2 deletion on body weight and cholesterol in mice. <i>Journal of Molecular Endocrinology</i> , 2017, 58, 127-139.	2.5	5
27	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. <i>Journal of Molecular Evolution</i> , 2018, 86, 613-617.	1.8	5