

# Fernanda Ortis

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

4,789  
citations

186265

28  
h-index

289244

40  
g-index

41  
all docs

41  
docs citations

41  
times ranked

5731  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | The role of inflammation in insulinitis and $\beta$ -cell loss in type 1 diabetes. <i>Nature Reviews Endocrinology</i> , 2009, 5, 219-226.  | 9.6  | 847       |
| 2  | Initiation and execution of lipotoxic ER stress in pancreatic $\beta$ -cells. <i>Journal of Cell Science</i> , 2008, 121, 2308-2318.  | 2.0  | 512       |
| 3  | Cytokines Downregulate the Sarcoendoplasmic Reticulum Pump $Ca^{2+}$ ATPase 2b and Deplete Endoplasmic Reticulum $Ca^{2+}$ , Leading to Induction of Endoplasmic Reticulum Stress in Pancreatic $\beta$ -Cells. <i>Diabetes</i> , 2005, 54, 452-461.  | 0.6  | 471       |
| 4  | The Human Pancreatic Islet Transcriptome: Expression of Candidate Genes for Type 1 Diabetes and the Impact of Pro-Inflammatory Cytokines. <i>PLoS Genetics</i> , 2012, 8, e1002552.   | 3.5  | 398       |
| 5  | Selective Inhibition of Eukaryotic Translation Initiation Factor $21\pm$ Dephosphorylation Potentiates Fatty Acid-induced Endoplasmic Reticulum Stress and Causes Pancreatic $\beta$ -Cell Dysfunction and Apoptosis. <i>Journal of Biological Chemistry</i> , 2007, 282, 3989-3997.          | 3.4  | 266       |
| 6  | Glucagon-Like Peptide-1 Agonists Protect Pancreatic $\beta$ -Cells From Lipotoxic Endoplasmic Reticulum Stress Through Upregulation of BiP and JunB. <i>Diabetes</i> , 2009, 58, 2851-2862.   | 0.6  | 202       |
| 7  | Palmitate induces a pro-inflammatory response in human pancreatic islets that mimics CCL2 expression by beta cells in type 2 diabetes. <i>Diabetologia</i> , 2010, 53, 1395-1405.   | 6.3  | 200       |
| 8  | STAT1 Is a Master Regulator of Pancreatic $\beta$ -Cell Apoptosis and Islet Inflammation. <i>Journal of Biological Chemistry</i> , 2011, 286, 929-941.  | 3.4  | 144       |
| 9  | Signaling by IL-1 $\beta$ +IFN- $\gamma$ and ER stress converge on DP5/Hrk activation: a novel mechanism for pancreatic $\beta$ -cell apoptosis. <i>Cell Death and Differentiation</i> , 2009, 16, 1539-1550.   | 11.2 | 143       |
| 10 | Induction of nuclear factor- $\kappa$ B and its downstream genes by TNF- $\alpha$ and IL-1 $\beta$ has a pro-apoptotic role in pancreatic beta cells. <i>Diabetologia</i> , 2008, 51, 1213-1225.  | 6.3  | 136       |
| 11 | Cytokines Interleukin-1 $\beta$ and Tumor Necrosis Factor- $\alpha$ Regulate Different Transcriptional and Alternative Splicing Networks in Primary $\beta$ -Cells. <i>Diabetes</i> , 2010, 59, 358-374.  | 0.6  | 134       |
| 12 | Cytokine-Induced Proapoptotic Gene Expression in Insulin-Producing Cells Is Related to Rapid, Sustained, and Nonoscillatory Nuclear Factor- $\kappa$ B Activation. <i>Molecular Endocrinology</i> , 2006, 20, 1867-1879.  | 3.7  | 124       |
| 13 | p53 Up-regulated Modulator of Apoptosis (PUMA) Activation Contributes to Pancreatic $\beta$ -Cell Apoptosis Induced by Proinflammatory Cytokines and Endoplasmic Reticulum Stress. <i>Journal of Biological Chemistry</i> , 2010, 285, 19910-19920.   | 3.4  | 108       |
| 14 | Sustained production of spliced X-box binding protein 1 (XBP1) induces pancreatic beta cell dysfunction and apoptosis. <i>Diabetologia</i> , 2010, 53, 1120-1130.   | 6.3  | 103       |
| 15 | MDA5 and PTPN2, two candidate genes for type 1 diabetes, modify pancreatic $\beta$ -cell responses to the viral by-product double-stranded RNA. <i>Human Molecular Genetics</i> , 2010, 19, 135-146.  | 2.9  | 93        |
| 16 | Cell-permeable peptides induce dose- and length-dependent cytotoxic effects. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 2222-2234.   | 2.6  | 92        |
| 17 | Transcriptional Regulation of the Endoplasmic Reticulum Stress Gene Chop in Pancreatic Insulin-Producing Cells. <i>Diabetes</i> , 2007, 56, 1069-1077.  | 0.6  | 86        |
| 18 | Loss of PPAR $\gamma$ in immune cells impairs the ability of abscisic acid to improve insulin sensitivity by suppressing monocyte chemoattractant protein-1 expression and macrophage infiltration into white adipose tissue. <i>Journal of Nutritional Biochemistry</i> , 2008, 19, 216-228. | 4.2  | 75        |

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|----|---|------|-----------|
| 19 | Endoplasmic reticulum stress and the unfolded protein response in pancreatic islet inflammation. <i>Journal of Molecular Endocrinology</i> , 2016, 57, R1-R17.  | 2.5  | 70        |
| 20 | Differential usage of NF- $\kappa$ B activating signals by IL-1 $\beta$ and TNF- $\alpha$ in pancreatic beta cells. <i>FEBS Letters</i> , 2012, 586, 984-989.   | 2.8  | 58        |
| 21 | Interactions between Cationic Vesicles and Cultured Mammalian Cells. <i>Langmuir</i> , 1997, 13, 2215-2218.   | 3.5  | 56        |
| 22 | Huntingtin-interacting protein 14 is a type 1 diabetes candidate protein regulating insulin secretion and $\beta$ -cell apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E681-8.      | 7.1  | 55        |
| 23 | JunB Inhibits ER Stress and Apoptosis in Pancreatic Beta Cells. <i>PLoS ONE</i> , 2008, 3, e3030.   | 2.5  | 52        |
| 24 | Use of a systems biology approach to understand pancreatic $\beta$ -cell death in Type 1 diabetes. <i>Biochemical Society Transactions</i> , 2008, 36, 321-327.   | 3.4  | 42        |
| 25 | The non-canonical NF- $\kappa$ B pathway is induced by cytokines in pancreatic beta cells and contributes to cell death and proinflammatory responses in vitro. <i>Diabetologia</i> , 2016, 59, 512-521.  | 6.3  | 42        |
| 26 | The non-canonical NF- $\kappa$ B pathway and its contribution to $\beta$ -cell failure in diabetes. <i>Journal of Molecular Endocrinology</i> , 2018, 61, F1-F6.  | 2.5  | 40        |
| 27 | Pancreatic $\beta$ -cells activate a JunB/ATF3-dependent survival pathway during inflammation. <i>Oncogene</i> , 2012, 31, 1723-1732.   | 5.9  | 38        |
| 28 | JunB protects $\beta$ -cells from lipotoxicity via the XBP1- $\beta$ -AKT pathway. <i>Cell Death and Differentiation</i> , 2014, 21, 1313-1324.   | 11.2 | 37        |
| 29 | A20 Inhibits $\beta$ -Cell Apoptosis by Multiple Mechanisms and Predicts Residual $\beta$ -Cell Function in Type 1 Diabetes. <i>Molecular Endocrinology</i> , 2016, 30, 48-61.  | 3.7  | 28        |
| 30 | Lipotoxicity and $\beta$ -Cell Failure in Type 2 Diabetes: Oxidative Stress Linked to NADPH Oxidase and ER Stress. <i>Cells</i> , 2021, 10, 3328.   | 4.1  | 26        |
| 31 | Augmented $\beta$ -Cell Function and Mass in Glucocorticoid-Treated Rodents Are Associated with Increased Islet Ir- $\beta$ /AKT/mTOR and Decreased AMPK/ACC and AS160 Signaling. <i>International Journal of Endocrinology</i> , 2014, 2014, 1-14. | 1.5  | 25        |
| 32 | Metabolic memory of $\beta$ -cells controls insulin secretion and is mediated by CaMKII $\alpha$ . <i>Molecular Metabolism</i> , 2014, 3, 484-489.  | 6.5  | 21        |
| 33 | Transient NADPH oxidase 2-dependent H <sub>2</sub> O <sub>2</sub> production drives early palmitate-induced lipotoxicity in pancreatic islets. <i>Free Radical Biology and Medicine</i> , 2021, 162, 1-13.  | 2.9  | 18        |
| 34 | Prolactin protects against cytokine-induced beta-cell death by NF- $\kappa$ B and JNK inhibition. <i>Journal of Molecular Endocrinology</i> , 2018, 61, 25-36.  | 2.5  | 14        |
| 35 | Identification of New Pancreatic Beta Cell Targets for In Vivo Imaging by a Systems Biology Approach. <i>Current Pharmaceutical Design</i> , 2010, 16, 1609-1618.   | 1.9  | 11        |
| 36 | Immunopurification of Polyclonal Antibodies to Recombinant Proteins of the Same Gene Family. <i>BioTechniques</i> , 1996, 21, 986-990.  | 1.8  | 9         |

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|----|--|-----|-----------|
| 37 | Early Cytokine-Induced Transient NOX2 Activity Is ER Stress-Dependent and Impacts $\beta$ -Cell Function and Survival. <i>Antioxidants</i> , 2021, 10, 1305.             | 5.1 | 5         |
| 38 | ARHGAP21 Acts as an Inhibitor of the Glucose-Stimulated Insulin Secretion Process. <i>Frontiers in Endocrinology</i> , 2020, 11, 599165.                                 | 3.5 | 3         |
| 39 | Beneficial effects of physical exercise for $\beta$ -cell maintenance in a type 1 diabetes mellitus animal model. <i>Experimental Physiology</i> , 2021, 106, 1482-1497. | 2.0 | 2         |
| 40 | A role for NADPH oxidase in mediating lipotoxicity and inflammation in $\beta$ -cells. <i>Free Radical Biology and Medicine</i> , 2021, 177, S112.                       | 2.9 | 0         |