

# Alejandra Tomas

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

2,597  
citations

236925

25  
h-index

206112

48  
g-index

68  
all docs

68  
docs citations

68  
times ranked

4032  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Expanded LUXendin Color Palette for GLP1R Detection and Visualization In Vitro and In Vivo. <i>Jacs Au</i> , 2022, 2, 1007-1017.   | 7.9 | 6         |
| 2  | Mitofusins <i>Mfn1</i> and <i>Mfn2</i> Are Required to Preserve Glucose- but Not Incretin-Stimulated $\beta^2$ -Cell Connectivity and Insulin Secretion. <i>Diabetes</i> , 2022, 71, 1472-1489.  | 0.6 | 14        |
| 3  | Glucose-Dependent miR-125b Is a Negative Regulator of $\beta^2$ -Cell Function. <i>Diabetes</i> , 2022, 71, 1525-1545.   | 0.6 | 10        |
| 4  | Hepatocyte cholesterol content modulates glucagon receptor signalling. <i>Molecular Metabolism</i> , 2022, 63, 101530.   | 6.5 | 4         |
| 5  | Spatiotemporal control of GLP-1 receptor activity. <i>Current Opinion in Endocrine and Metabolic Research</i> , 2021, 16, 19-27.   | 1.4 | 17        |
| 6  | Genetic and biased agonist-mediated reductions in $\beta^2$ -arrestin recruitment prolong cAMP signaling at glucagon family receptors. <i>Journal of Biological Chemistry</i> , 2021, 296, 100133.   | 3.4 | 41        |
| 7  | GRK2 regulates GLP-1R-mediated early phase insulin secretion in vivo. <i>BMC Biology</i> , 2021, 19, 40.   | 3.8 | 10        |
| 8  | The Interplay of Glucagon-Like Peptide-1 Receptor Trafficking and Signalling in Pancreatic Beta Cells. <i>Frontiers in Endocrinology</i> , 2021, 12, 678055.   | 3.5 | 32        |
| 9  | Dysregulation of the <i>Pdx1/Ovol2/Zeb2</i> axis in dedifferentiated $\beta^2$ -cells triggers the induction of genes associated with epithelial $\rightarrow$ mesenchymal transition in diabetes. <i>Molecular Metabolism</i> , 2021, 53, 101248. | 6.5 | 14        |
| 10 | Acylation of the Incretin Peptide Exendin-4 Directly Impacts Glucagon-Like Peptide-1 Receptor Signaling and Trafficking. <i>Molecular Pharmacology</i> , 2021, 100, 319-334.   | 2.3 | 13        |
| 11 | Evaluation of efficacy- versus affinity-driven agonism with biased GLP-1R ligands P5 and exendin-F1. <i>Biochemical Pharmacology</i> , 2021, 190, 114656.  | 4.4 | 8         |
| 12 | Partial agonism improves the anti-hyperglycaemic efficacy of an oxyntomodulin-derived GLP-1R/GCGR co-agonist. <i>Molecular Metabolism</i> , 2021, 51, 101242.  | 6.5 | 7         |
| 13 | Receptor Activity-Modifying Protein 2 (RAMP2) alters glucagon receptor trafficking in hepatocytes with functional effects on receptor signalling. <i>Molecular Metabolism</i> , 2021, 53, 101296.  | 6.5 | 23        |
| 14 | New Insights into Beta-Cell GLP-1 Receptor and cAMP Signaling. <i>Journal of Molecular Biology</i> , 2020, 432, 1347-1366.   | 4.2 | 40        |
| 15 | Effects on pancreatic Beta and other Islet cells of the glucose-dependent insulinotropic polypeptide. <i>Peptides</i> , 2020, 125, 170201.   | 2.4 | 15        |
| 16 | Ligand-Specific Factors Influencing GLP-1 Receptor Post-Endocytic Trafficking and Degradation in Pancreatic Beta Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8404.   | 4.1 | 28        |
| 17 | The type 2 diabetes gene product STARD10 is a phosphoinositide-binding protein that controls insulin secretory granule biogenesis. <i>Molecular Metabolism</i> , 2020, 40, 101015.   | 6.5 | 22        |
| 18 | Disconnect between signalling potency and in vivo efficacy of pharmacokinetically optimised biased glucagon-like peptide-1 receptor agonists. <i>Molecular Metabolism</i> , 2020, 37, 100991.  | 6.5 | 32        |

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|----|---|------|-----------|
| 19 | The Influence of Peptide Context on Signaling and Trafficking of Glucagon-like Peptide-1 Receptor Biased Agonists. ACS Pharmacology and Translational Science, 2020, 3, 345-360.                    | 4.9  | 32        |
| 20 | Super-resolution microscopy compatible fluorescent probes reveal endogenous glucagon-like peptide-1 receptor distribution and dynamics. Nature Communications, 2020, 11, 467.                       | 12.8 | 88        |
| 21 | Signalling, trafficking and glucoregulatory properties of glucagon-like peptide-1 receptor agonists exendin-4 and lixisenatide. British Journal of Pharmacology, 2020, 177, 3905-3923.              | 5.4  | 36        |
| 22 | Agonist-induced membrane nanodomain clustering drives GLP-1 receptor responses in pancreatic beta cells. PLoS Biology, 2019, 17, e3000097.  | 5.6  | 61        |
| 23 | Ureidopeptide GLP-1 analogues with prolonged activity <i>in vivo</i> via signal bias and altered receptor trafficking. Chemical Science, 2019, 10, 9872-9879.                                       | 7.4  | 31        |
| 24 | Biomimetic electromechanical stimulation to maintain adult myocardial slices <i>in vitro</i> . Nature Communications, 2019, 10, 2168.   | 12.8 | 68        |
| 25 | Targeting GLP-1 receptor trafficking to improve agonist efficacy. Nature Communications, 2018, 9, 1602.   | 12.8 | 162       |
| 26 | Conditional and Reversible Activation of Class A and B G Protein-Coupled Receptors Using Tethered Pharmacology. ACS Central Science, 2018, 4, 166-179.  | 11.3 | 27        |
| 27 | Control of insulin secretion by GLP-1. Peptides, 2018, 100, 75-84.  | 2.4  | 69        |
| 28 | A Targeted RNAi Screen Identifies Endocytic Trafficking Factors That Control GLP-1 Receptor Signaling in Pancreatic $\beta$ -Cells. Diabetes, 2018, 67, 385-399.                                    | 0.6  | 41        |
| 29 | Potent Prearranged Positive Allosteric Modulators of the Glucagon-like Peptide-1 Receptor. ChemistryOpen, 2017, 6, 501-505.   | 1.9  | 31        |
| 30 | Stress-specific p38 MAP kinase activation is sufficient to drive EGF receptor endocytosis but not nuclear translocation. Journal of Cell Science, 2017, 130, 2481-2490.                             | 2.0  | 11        |
| 31 | Moesin and cortactin control actin-dependent multivesicular endosome biogenesis. Molecular Biology of the Cell, 2016, 27, 3305-3316.  | 2.1  | 23        |
| 32 | The Zinc Transporter Slc30a8/ZnT8 Is Required in a Subpopulation of Pancreatic $\beta$ -Cells for Hypoglycemia-induced Glucagon Secretion. Journal of Biological Chemistry, 2015, 290, 21432-21442. | 3.4  | 40        |
| 33 | Stress reveals new destination for EGF receptor. Cell Cycle, 2015, 14, 3343-3344.   | 2.6  | 3         |
| 34 | WASH and Tsg101/ALIX-dependent diversion of stress-internalized EGFR from the canonical endocytic pathway. Nature Communications, 2015, 6, 7324.  | 12.8 | 63        |
| 35 | EGF receptor trafficking: consequences for signaling and cancer. Trends in Cell Biology, 2014, 24, 26-34.   | 7.9  | 636       |
| 36 | Novel Mechanistic Link between Focal Adhesion Remodeling and Glucose-stimulated Insulin Secretion. Journal of Biological Chemistry, 2012, 287, 2423-2436.   | 3.4  | 66        |

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|----|---|-----|-----------|
| 37 | Focal Adhesion Remodeling Is Crucial for Glucose-Stimulated Insulin Secretion and Involves Activation of Focal Adhesion Kinase and Paxillin. <i>Diabetes</i> , 2011, 60, 1146-1157.                             | 0.6 | 71        |
| 38 | Regulation of Insulin Secretion by Phosphatidylinositol(4,5)Bisphosphate. <i>Traffic</i> , 2010, 11, 123-137.   | 2.7 | 17        |
| 39 | Role of the Rho-ROCK (Rho-Associated Kinase) Signaling Pathway in the Regulation of Pancreatic Î²-Cell Function. <i>Endocrinology</i> , 2009, 150, 2072-2079.   | 2.8 | 50        |
| 40 | Munc 18 and Granuphilin Collaborate During Insulin Granule Exocytosis. <i>Traffic</i> , 2008, 9, 813-832.   | 2.7 | 63        |
| 41 | Rab GTPase-Activating Protein AS160 Is a Major Downstream Effector of Protein Kinase B/Akt Signaling in Pancreatic Î²-Cells. <i>Diabetes</i> , 2008, 57, 1195-1204.   | 0.6 | 50        |
| 42 | Small Interfering RNA-Mediated Suppression of Proislet Amyloid Polypeptide Expression Inhibits Islet Amyloid Formation and Enhances Survival of Human Islets in Culture. <i>Diabetes</i> , 2008, 57, 3045-3055. | 0.6 | 48        |
| 43 | Dual Effect of Cell-Cell Contact Disruption on Cytosolic Calcium and Insulin Secretion. <i>Endocrinology</i> , 2008, 149, 2494-2505.  | 2.8 | 84        |
| 44 | Pro-Survival Role of Gelsolin in Mouse Î²-Cells. <i>Diabetes</i> , 2007, 56, 80-87.   | 0.6 | 27        |
| 45 | Dynamin Is Functionally Coupled to Insulin Granule Exocytosis. <i>Journal of Biological Chemistry</i> , 2007, 282, 33530-33536.   | 3.4 | 36        |
| 46 | Regulation of pancreatic Î²-cell insulin secretion by actin cytoskeleton remodelling: role of gelsolin and cooperation with the MAPK signalling pathway. <i>Journal of Cell Science</i> , 2006, 119, 2156-2167. | 2.0 | 143       |
| 47 | Annexin 11 is required for midbody formation and completion of the terminal phase of cytokinesis. <i>Journal of Cell Biology</i> , 2004, 165, 813-822.  | 5.2 | 98        |
| 48 | Calcium- and Cell Cycle-dependent Association of Annexin 11 with the Nuclear Envelope. <i>Journal of Biological Chemistry</i> , 2003, 278, 20210-20216.   | 3.4 | 56        |