LIST OF PUBLICATIONS

CARMEN CLAPP

Summary

Peer-reviewed publications	166
Books edited	1
Chapters in books	19
Google Scholar citations	7,531
h index	48
i10 index	121
Research Gate citations	6,064
Research interest score	2,482
h index	43
Scopus citations	5,378
h index	41

PEER-REVIEWED PUBLICATIONS

2025

168. García-González MA, Miguel-Martínez AD, González-Hernández A, Zamora M, Adán-Castro E, Triebel J, Bertsch T, López-López JG, Martínez de la Escalera G, Robles JP, **Clapp C**, Villalón CM. (2025). Cardiovascular safety of VIAN-c4551, an antiangiogenic peptide derived from vasoinhibin. ***Drug Development Research***, Under Revision, 2025. ***FI: 3.500***

167. Adán-Castro E, Zamora M, Granados-Carrasco D, Siqueiros-Marquez L, García-Rodrigo JF, Bertsch T, Triebel J, Martínez de la Escalera G, Robles JP, **Clapp C**. Topical eye administration of the antiangiogenic peptide VIAN-c4551 for the treatment of diabetic macular edema: efficacy and ocular pharmacokinetics. ***Scientific Reports,*** Under Revision, 2025. ***FI: 3.800***

166. Pérez AL, Zamora M, Bahena M, Arámburo-Williams R, Adán-Castro E, Bertsch T, Triebel J, Martínez de la Escalera G, Robles JP, **Clapp C**. The antiangiogenic peptide VIAN-c4551 inhibits lung melanoma metastasis in mice by reducing pulmonary vascular permeability. ***PLOS ONE,*** 20(5): e0316983, 2025. https://doi.org/10.1371/journal.pone.0316983. ***FI: 3.752***

165. Nuñez FF, Siqueiros-Marquez L, Adán-Castro E, Zamora M, Robles JP, Ruíz-Herrera X, Bertsch T, Triebel J, Martínez de la Escalera G, **Clapp C**. Vasoinhibin is generated by the renin-angiotensin system. ***Endocrinology*** 166, bqaf023, 2025. https://doi.org/10.1210/endocr/bqaf023. ***FI: 5.054***

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164. Macías F, Ulloa M, **Clapp C**, Martínez de la Escalera G, Arnold E. Prolactin protects hippocampal neurons against H_2O_2-induced neurotoxicity by suppressing BAX and NOX4 via the NF-κB signaling pathway. ***PLOS ONE***, 19:e0313328, 2024. https://doi.org/10.1371/journal.pone.0313328. ***FI: 3.752***

163. Zamora M, Harris D, Davies N, Ebnet J, Radermacher P, Brucker C, Waller C, Robles JP, Bertsch T, **Clapp C,** Triebel J. Immunometric and functional measurement of endogenous vasoinhibin in human sera. ***Frontiers in Endocrinology*** 15:1345996, 2024. https://doi.org/10.3389/fendo.2024.1345996. ***FI: 6.055***

162. Castillo X, Ortíz G, Arnold E, Wu Z, Tovar y Romo LB, **Clapp C**, Martínez de la Escalera G. The influence of the prolactin/vasoinhibin axis on post-stroke lesion volume, astrogliosis, and survival. ***Journal of Neuroendocrinology*** 2024:e13415. https://doi.org/10.1111/jne.13415. ***FI: 3.200***

161. Ulloa M, Macías F, **Clapp C**, Martínez de la Escalera G, Arnold E. Prolactin is an endogenous antioxidant factor in astrocytes that limits oxidative stress-induced astrocytic cell death via the STAT3/NRF2 signaling pathway. ***Neurochemical Research*** 49: 1879-1901, 2024. https://doi.org/10.1007/s11064-024-04147-3 . ***FI: 4.400***

160. Vázquez-Carrillo DI, Ocampo-Ruíz AL, Báez-Mesa A, Ramírez-Hernández G, Adán-Castro E, García-Rodrigo JF, Dena-Beltrán JL, de los Ríos EA, Sánchez-Martínez MK, Ortíz-Arballo MG, Martínez de la Escalera G, **Clapp C**, Macotela Y. Dopamine D2 receptor antagonist counteracts hyperglycemia and insulin resistance in diet-induced obese male mice. ***PLOS ONE*** 19:e0301496, 2024. https://doi.org/10.1371/journal.pone.0301496. ***FI: 3.752***

159. Robles JP, Zamora M, Garcia-Rodrigo JF, Perez AL, Bertsch T, Martínez de la Escalera G, Triebel J, **Clapp C**. The apoptotic, inflammatory, and fibrinolytic actions of vasoinhibin are in a motif different from its antiangiogenic HGR motif. ***Endocrinology*** 165:1-12, 2024. https://doi.org/10.1210/endocr/bqad185. ***FI: 5.045***

158. Núñez-Amaro CD, López M, Adán-Castro E, Robles-Osorio ML, García-Franco L, García-Roa M, Villalpando-Robles Y, Ramírez-Neria P, Pineiro N, Rubio-Mijangos JF, Sánchez J, Ramírez-Hernández G, Siqueiros-Márquez L, Díaz-Lezama N, López-Star E, Bertsch T, Martínez de la Escalera G, Triebel J, **Clapp C**. Levosulpiride for the treatment of diabetic macular oedema: A phase 2 randomized clinical trial. ***EYE*** 38:520-528, 2024. http://doi.org/10.1038/s41433-023-02715-5. ***FI: 4.456***

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157. Luzardo-Ocampo I, Ocampo-Ruíz AL, Dena-Beltrán JL, Martínez de la Escalera G, **Clapp C**, Macotela Y. The diversity of gut microbiota at weaning is altered in prolactin receptor null mice. ***Nutrients*** 15:3447, 2023. http://doi.org/10.3390/nu15153447. ***FI: 5.717***

156. García-Rodrigo JF, Ortíz-Arballo G, Martínez-Díaz OF, Furuzawa-Carballeda J, Ruíz-Herrera X, Macías F, Ledesma-Colunga MG, Martínez de la Escalera G, **Clapp C**. Prolactin inhibits or stimulates the inflammatory response of joint tissues in a cytokine-dependent manner. ***Endocrinology*** 1-14, bqad156, 2023. https://doi.org/10.1210/endocr/bqad156. ***FI: 5.045***

155. Ruiz-Herrera X, Luzardo-Ocampo I, Martínez de la Escalera G, **Clapp C**, Macotela Y. Differentiated mouse adipocytes in primary culture: A model of insulin resistance. ***Journal of Visualized Experiments.*** 192: E63979, 2023. http://doi:10.3791/63979v. ***FI: 1.424***

154. Luzardo-Ocampo I, Dena-Beltrán JL, Martínez de la Escalera G, **Clapp C**, Macotela Y. Obesity-derived alterations in the lactating mammary gland: focus on prolactin. ***Molecular and Celular Endocrinology*** 559:111810, 2023. ***FI: 4.102***

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153. Macotela Y, Ruiz-Herrera X, Vázquez-Carrillo DI, Ramírez-Hernández G, Martínez de la Escalera G, Clapp C. The beneficial metabolic actions of prolactin. ***Frontiers in Endocrinology*** 13;1001703, 2022. ***FI: 6.055***

152. Triebel J, Bertsch T, Clapp C. Prolactin and vasoinhibin are endogenous players in diabetic retinopathy revisited. ***Frontiers in Endocrinology*** 13:994898, 2022. ***FI: 6.055***

151. Clapp C, Ortíz G, García-Rodrigo JF, Ledesma-Colunga MG, Martínez-Díaz F, Adán N, Martínez de la Escalera G. Dual roles of prolactin and vasoinhibin in inflammatory arthritis. ***Frontiers in Endocrinology*** 13:905756, 2022. Doi: 10.3389/fendo.2022.905756. ***FI: 6.055***

150. Triebel J, Robles JP, Zamora Z, Clapp C, Bertsch. New horizons in specific hormone proteolysis. ***Trends in Endocrinology and Metabolism*** 33:371-377, 2022. ***FI: 12.015***

149. Ortíz G, Ledesma-Colunga MG, Zhijian Wu Z, García-Rodrigo JF, Adán N, Martínez-Díaz F, de Los Ríos EA, López-Barrera F, Martínez de la Escalera G, Clapp C. Vasoinhibin is generated and promotes inflammation in mild antigen-induced arthritis. ***Endocrinology*** 163(5):1-12 2022. ***FI: 5.045***

148. Martínez de la Escalera G, Macotela Y, Clapp C. A new experimental tool towards understanding the regulation of human prolactin secretion and functions. ***Endocrinology*** 163(4):1-2, 2022. ***FI: 5.045***

147. Robles JP, Zamora M, Martínez de la Escalera G, Clapp C. The spike protein of SARS-CoV-2 induces endothelial inflammation through integrin α5β1 and NF-κB signaling. ***Journal of Biological Chemistry*** 298(3):101695, 2022. ***FI: 4.238***

146. Leuchs A, Davies N, Friedrich C, Trier S, Clapp C, Bertsch T, Triebel J. A comparative phylogenetic analysis of prolactin cleavage sites for the generation of vasoinhibin in vertebrates. ***General and Comparative Endocrinology*** 320:114011, 2022. ***FI: 2.88***

145. Markl-Hahn H, Neugebauer L, Lenke L, Ecker S, Merz T, McCook O, Khouder n, Bruckeer C, Radermacher P, Waller C, Clapp C, Bertsch T, Triebel J. Human placental tissue contains a placental lactogen derived vasoinhibin. ***Journal of the Endocrine Society*** 6:1-14, 2022. ***FI: 3.49***

144. Hernández-Soto R, Adán-Castro E, Clapp C, Peña-Ortega F. Main olfactory bulb reconfiguration by prolonged passive ofactory experience correlates with increased brain-derived neurotrophic factor and improved innate olfaction. ***European Journal of Neuroscience*** 55:1141-1161, 2022. ***FI: 3.386***

143. Adán-Castro E, Siqueiros-Márquez L, Ramírez-Hernández G, Díaz-Lezama N, Ruiz-Herrera X, Nuñez FF, Nuñez-Amaro CD, Robles-Osorio ML, Bertsch T, Triebel J, Martínez de la Escalera G, Clapp C. Sulpiride-induced hyperprolactinemia increases retinal vasoinhibin and protects against diabetic retinopathy in rats. ***Journal of Neuroendocrinology: Translational and Clinical Neuroendocrinology*** 34:e13091, 2022. doi:10.1111/jne.13091. ***FI: 3.627***

142. Robles JP, Zamora M, Siqueiros-Marquez L, Adan-Castro E, Ramirez-Hernadez G, Nuñez FF, Lopez-Casillas F, Millar RP, Bertsch T, Martínez de la Escalera G, Tiebel J, Clapp C. The HGR motif is the antiangiogenic determinant of vasoinhibin: implications for a therapeutic orally active oligopeptide. ***Angiogenesis*** 25:57-70, 2022. Doi: 10.1007/s10456-021-09800-x. ***FI: 9.78***

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141. Ruggiero C, Altieri B, Arnold E, Siqueiros-Marquez L, Doghman-Bouguerra M, Detomas M, Durand N, Jarjat M, Chatonnet F, Fassnacht M, Deutschbein T, Clapp C, Lalli E. Integrative genomic analysis reveals a conserved role for prolactin signalling in the regulation of adrenal function. ***Clinical and Translational Medicine*** 11: e630, 2021. Doi: https://doi.org/10.1002/ctm2.630, ***FI: 11.492***

140. Friedrich C, Neugebauer L, Zamora M, Robles JP, Martínez de la Escalera G, Clapp C, Bertsch T, Triebel J. Plasmin generates vasoinhibin-like peptides by cleaving prolactin and placental lactogen. ***Molecular and Cellular Endocrinology*** 538:111471, 2021. ***FI: 4.102***

139. Zamora M, Robles JP, Aguilar MB, Romero-Gómez SJ, Bertsch T, Martínez de la Escalera G, Tiebel J, Clapp C. Thrombin cleaves prolactin into a potent 5.6 kDa vasoinhibin: Implication for tissue repair. ***Endocrinology*** 162: 1-15, 2021. https://doi.org/10.1210/endocr/bqab177. ***FI: 5.045***

138. Müller N, Robles JP, Zamora M, Ebnet J, Markl-Hahn H, Martínez de la Escalera G, Clapp C, Bertsch, Tiebel J. Development of vasoinhibin-specific monoclonal antibodies. ***Frontiers in Endocrinology*** 12:645085, 2021. Doi: 10.3389/fendo.2021.645085. ***FI: 6.055***

137. Ramírez-Hernández G., Adán-Castro E., Díaz-Lezama N., Ruiz-Herrera X, Martínez de la Escalera G., Macotela Y, Clapp C. Global deletion of the prolactin receptor aggravates streptozotocin-induced diabetes in mice. ***Frontiers in Endocrinology*** 12:619696, 2021. Doi: 10.3389/fendo.2021.619696. ***FI: 6.055***

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136. Nuñez-Amaro C.D., Moreno-Vega A.I., Adan-Castro E., Zamora M., Garcia-Franco R., Ramirez-Neria P., Garcia-Roa M., Villalpando Y, Robles J.P., Ramirez-Hernandez G., Lopez M., Sanchez J., Lopez-Star E., Bertsch T., Martinez de la Escalera G., Robles-Osorio M.L., Triebel J., **Clapp C.** Levosulpiride increases the levels of prolactin and antiangiogenic vasoinhibin in the vitreous of patients with proliferative diabetic retinopathy. ***Translational Vision Science & Technology (TVST)*** 9:27, 2020. ***FI: 2.399***

135. Ortiz G, Ledesma-Colunga M.G., Wu Z., Garcia-Rodrigo JF, Adan N, MartInez de la Escalera G, **Clapp C.** Vasoinhibin reduces joint inflammation, bone loss, and the angiogenesis and vasopermeability of the pannus in murine antigen-induced arthritis. ***Laboratory Investigation*** 100:1068-1079, 2020. ***FI: 3.21***

134. Macotela Y, Triebel J, **Clapp C**. Opinion: Time for a new perspective on prolactin in metabolism. ***Trends in Endocrinology and Metabolism*** 31:276-286, 2020. ***FI: 11.64***

133. Vázquez-Membrillo, M., Siqueiros-Márquez, L., Núñez, F.F., Díaz-Lezama, N., Adán-Castro, E., Ramírez-Hernández, G., Adán, N., Macotela, Y., Martínez de la Escalera, G., **Clapp, C**. Prolactin stimulates the vascularization of the retina in newborn mice under hyperoxia conditions. ***Journal of Neuroendocrinology***, 32:e12858, 2020. Doi: https://doi.org/10.1111/jne.12858. ***FI: 3.392***

132. Ponce, A.J., Galván-Salas, T., Lerma-Alvarado, R.M., Ruíz-Herrera, X., Cárdenas, L.E., Hernández, T., Valencia, R., Martínez de la Escalera, G., **Clapp, C.**, Macotela, Y. Low prolactin levels associate with insulin resistance and visceral adipocyte hypertrophy in humans. ***Endocrine*** 67:331-343, 2020. ***FI: 3.878***

131. Triebel, J., Schauer, N., Zamora, M., Moreno-Vega, A.I., Martínez de la Escalera, G., **Clapp, C**., Bertsch, T. Matrix metalloproteases and cathepsin D in human serum do not cleave prolactin to generate vasoinhibin. ***Clinical Laboratory*** 66:877-866, 2020. ***FI: 1.224***.

130. Aroña, R.M., Arnold, E., Macías, F., López-Casillas, F., **Clapp, C.,** Martínez de la Escalera, G. Vasoinhibin generation and effect on neuronal apoptosis in the hippocampus of late mouse embryos. ***American Journal of Physiology: Regulatory, Integrative and Comparative Physiology*** 318(4): R760-R771, 2020. DOI: 10.1152/ajpregu.00286.2019. ***FI: 3.529***

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2019

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126. Moreno-Carranza, B., Robles, J.P., Cruces-Solís, H., Ferrer-Ríos, M.G., Aguilar-Rivera, E., Yupanki, M., Martínez de la Escalera, G., **Clapp, C.** Sequence optimization and glycosylation of vasoinhibin: Pitfalls of recombinant production. ***Protein Expression and Purification*** 161: 49-56, 2019. ***FI: 1.338***

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2017

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113. Triebel, J., **Clapp, C.,** Martínez de la Escalera, G., Bertsch, T. Commentary: Prolactin alters blood pressure by modulating the activity of endothelial nitric oxide synthase. ***Frontiers in Endocrinology*** 8: 105, 2017. ***FI: 3.675***

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2016

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2015

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