

ORIGINAL ARTICLES (8)

García-Weber D, Dangeard AS, Teixeira V, Hauke M, Carreaux A, Josenhans C, Arrieumerlou C. In vitro ALPK1 kinase assay reveals new insights into ADP-heptose sensing pathway and kinase activity of disease-associated ALPK1 mutants. **Sci. Rep.** **2023**. Apr 18;13(1):6278. doi: 10.1038/s41598-023-33459-7. PMID: 37072480; PMCID: PMC10113258.. (IF: 4.996)

Martin-Gallausiaux C, **García-Weber D**, Lashermes A, Larraufie P, Marinelli L, Teixeira V, Rolland A, Béguet-Crespel F, Brochard V, Quatremare T, Jamet A, Doré J, Gray-Owen SD, Blottière HM, Arrieumerlou C, Lapaque N. *Akkermansia muciniphila* upregulates genes involved in maintaining the intestinal barrier function via ADP-heptose-dependent activation of the ALPK1/TIFA pathway. **Gut Microbes.** **2022** Jan-Dec;14(1):2110639. doi: 10.1080/19490976.2022.2110639. PMID: 36036242; PMCID: PMC9427033. (IF : 10.245)

Santaterra VAG, Fiusa MML, Hounkpe BW, Chenou F, Tonasse WV, da Costa LNG, **García-Weber D**, Domingos IF, de Lima F, Borba-Junior IT, Araújo ADS, Lucena-Araújo AR, Bezerra MAC, Dos Santos MNN, Costa FF, Millán J, De Paula EV. Endothelial Barrier Integrity Is Disrupted *In Vitro* by Heme and by Serum From Sickle Cell Disease Patients. **Front Immunol.** **2020** Dec 14;11:535147. doi: 10.3389/fimmu.2020.535147. PMID: 33381108; PMCID: PMC7767881. (IF : 5.085)

Gómez-Escudero J, Clemente C, **García-Weber D**, Acín-Pérez R, Millán J, Enríquez JA, Bentley K, Carmeliet P, Arroyo AG. PKM2 regulates endothelial cell junction dynamics and angiogenesis via ATP production. **Sci Rep.** **2019** Oct 21;9(1):15022. doi: 10.1038/s41598-019-50866-x. PMID: 31636306; PMCID: PMC6803685. (IF : 4.011)

Carson D, Barry R, Hopkins EGD, Roumeliotis TI, **García-Weber D**, Mullineaux-Sanders C, Elinav E, Arrieumerlou C, Choudhary JS, Frankel G. *Citrobacter rodentium* induces rapid and unique metabolic and inflammatory responses in mice suffering from severe disease. **Cell Microbiol.** **2020** Jan;22(1):e13126. doi: 10.1111/cmi.13126. Epub 2019 Oct 30. PMID: 31610608; PMCID: PMC7003488. (IF: 4.288)

Colás-Algora N*, **García-Weber D*§**, Cacho-Navas C, Barroso S, Caballero A, Ribas C, Correas I, Millán J§. Compensatory increase of VE-cadherin expression through ETS1 regulates endothelial barrier function in response to TNF α . **Cell Mol Life Sci.** **2020** Jun;77(11):2125-2140. doi: 10.1007/s00018-019-03260-9. Epub 2019 Aug 8. PMID: 31396656. (IF: 7.014) (co-first and co-corresponding)

García-Weber D, Dangeard AS, Cornil J, Thai L, Rytter H, Zamyatina A, Mulard LA, Arrieumerlou C. ADP-heptose is a newly identified pathogen-associated molecular pattern of *Shigella flexneri*. **EMBO Rep.** **2018** Dec;19(12):e46943. doi: 10.15252/embr.201846943. Epub 2018 Nov 19. PMID: 30455202; PMCID: PMC6280651. (IF: 8.383)

Marcos-Ramiro B, **García-Weber D**, Barroso S, Feito J, Ortega MC, Cernuda-Morollón E, Reglero-Real N, Fernández-Martín L, Durán MC, Alonso MA, Correas I, Cox S, Ridley AJ, Millán J. RhoB controls endothelial barrier recovery by inhibiting Rac1 trafficking to the cell border. **J Cell Biol.** **2016** May 9;213(3):385-402. doi: 10.1083/jcb.201504038. Epub 2016 May 2. PMID: 27138256; PMCID: PMC4862328. (IF: 8.784)

REVIEW ARTICLES (4)

García-Weber D, Arrieumerlou C. ADP-heptose: a bacterial PAMP detected by the host sensor ALPK1. **Cell Mol Life Sci.** **2021** Jan;78(1):17-29. doi: 10.1007/s00018-020-03577-w. Epub 2020 Jun 26. PMID: 32591860. (IF : 7.014)

García-Weber D, Millán J. Parallels between single cell migration and barrier formation: The case of RhoB and Rac1 trafficking. **Small GTPases.** **2018** Jul 4;9(4):332-338. doi: 10.1080/21541248.2016.1231655. Epub 2016 Sep 30. PMID: 27598909; PMCID: PMC5997161. (IF: 2.521)

Reglero-Real N*, **García-Weber D***, Millán J. Cellular Barriers after Extravasation: Leukocyte Interactions with Polarized Epithelia in the Inflamed Tissue. **Mediators Inflamm.** **2016**;2016:7650260. doi: 10.1155/2016/7650260. Epub **2016** Jan 28. PMID: 26941485; PMCID: PMC4749818. (IF: 3.232)

Marcos-Ramiro B*, **García-Weber D***, Millán J. TNF-induced endothelial barrier disruption: beyond actin and Rho. **Thromb Haemost.** **2014** Dec;112(6):1088-102. doi: 10.1160/TH14-04-0299. Epub 2014 Jul 31. PMID: 25078148. (IF: 4.984)

* Joint first author

§ Joint corresponding author