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- Doctorado en Investigación Biomédica Básica

Líneas de Investigación

- Metabolismo de la L-arginina en la respuesta inmune a tripanosomátidos
- Inhibición de apoptosis por tripanosomátidos
- Papel de las vía de supervivencia PI3K/Akt y de proteínas antiapoptóticas en el desarrollo de la cardiomiopatía chagásica crónica

Publicaciones insignia

1. Becker, I., N. Salaiza, J. Delgado, A. Ruiz, N. Carrillo-Carrasco, M. Aguirre, R. Cervantes, **L. Gutiérrez-Kobeh**, A. Pérez-Torres, N. Cabrera, A. González, C. Maldonado y A. Isibasi. 2003. Leishmania lipophosphoglycan (LPG) activates NK cells through toll-like receptor-2. *Molecular and Biochemical Parasitology*, 130: 65-74.
2. Anderson, C.F. Lucas, M, **Gutiérrez-Kobeh, L**. Field, A.E. and Mosser M.D. 2004. T cell biasing by activated dendritic cells. *The Journal of Immunology*. 173:955-961.
3. **Gutiérrez-Kobeh L**, de Oyarzabal E, Argueta J, Wilkins A, Salaiza N, Fernández E, López E, Aguirre M, Becker I. 2013. Inhibition of dendritic cell apoptosis by *Leishmania mexicana* amastigotes. *Parasitology Research*. 112: 1755-1762.
4. Vázquez-López R, Argueta-Donohué J, Wilkins-Rodríguez A, Escalona-Montaño A, Aguirre-García M, **Gutiérrez-Kobeh L.** 2015. *Leishmania mexicana* amastigotes inhibit JNK and p38 MAPK phosphorylation and promote PI3K and AKT activation: participation in the inhibition of apoptosis of monocyte-derived dendritic cells. *Parasite Immunology*. 37: 579-589.
5. Rodríguez-González J, Wilkins-Rodríguez A, and **Gutiérrez-Kobeh L**. 2018. Role of gluthatione, ROS and Bcl-xL in the inhibition of apoptosis of monocyte-derived dendritic cells by *Leishmania mexicana* promastigotes. *Parasitology Research*. 117: 1225-1235. https://doi.org/10.1007.s00436-018-5804-z
6. Wilkins-Rodríguez A, Pérez-Torres A, Escalona-Montaño A, and **Gutiérrez-Kobeh L**. 2020. Differential regulation of L-arginine metabolism through arginase 1 during

infection with *Leishmania mexicana* isolates obtained from patients with localized and diffuse cutaneous leishmaniasis. *Infection and Immunity*. 88:e00963-19. https://doi.org/10.1128/IAI .00963-19.

Publicaciones recientes

1. Rodríguez-González J, Wilkins-Rodríguez A, and **Gutiérrez-Kobeh L**. 2018. Role of gluthatione, ROS and Bcl-xL in the inhibition of apoptosis of monocyte-derived dendritic cells by *Leishmania mexicana* promastigotes. *Parasitology Research*. 117: 1225-1235. https://doi.org/10.1007.s00436-018-5804-z
2. Solano-Gálvez SG, Abadi-Chiriti J, Gutiérrez-Velez L, Rodríguez-Puente E, Konstat-Korzenny E, Álvarez-Hernández DA, Franyuti-Kelly G, **Gutiérrez-Kobeh L** and Vázquez- López R. 2018. Apoptosis: Activation and inhibition in health and disease. *Medical Sciences MDPI*. 6, 54. doi:10.3390/medsci6030054
3. Solano-Gálvez SG, Tovar-Torres SM, Tron-Gómez MS, Weiser-Smeke AE, Alvarez-Hernández D, Franyuti-Kelly G, Tapia-Moreno M, Ibarra-Arias JA, **Gutiérrez-Kobeh L**, Vázquez-López R. 2018. Human Dendritic Cell: Ontogeny and their subsets in health and disease. *Medical Sciences MDPI*. 6, 88. doi:10.3390/medsci6040088
4. Alagón Fernández del Campo P., De Orta Pando A., Straface J. I., López Vega J. R., Toledo Plata D., Niezen Lugo, S. F., Alvarez Hernández D., Barrientos Fortes T., **Gutiérrez-Kobeh L**., Solano-Gálvez S. G., Vázquez-López R. 2019. The use of probiotic therapy to modulate the gut microbiota and dendritic cell responses in IBD. *Medical Sciences MDPI*. 7, 33; doi:10.3390/medsci7020033
5. Rivera-Fernández I, Argueta-Donohué J, Wilkins-Rodríguez A, and **Gutiérrez-Kobeh, L**. 2019. Effect of two different isolates of *Leishmania mexicana* in the production of cytokines and phagocytosis by murine dendritic cells. *Journal of Parasitology*. 105(2) 359–370. DOI: 10.1645/17-158
6. **Gutiérrez-Kobeh L,** Wilkins-Rodríguez A. (2019). L-arginine metabolism in the infection with *Trypanosoma cruzi* en Biology of *Trypanosoma cruzi*. Online First, IntechOpen, DOI: 10.5772/intechopen.85010. Available from: https://www.intechopen.com/online-first/l-arginine-metabolism-in-the-infection-with-trypanosoma-cruzi.
7. **Gutiérrez-Kobeh L.** and Wilkins-Rodríguez A. (2020). GK1 improve the immune response induced by the dendritic cells of BALB/c mice infected with *Leishmania mexicana* promastigotes. *Acta Parasitologica* 65(1): 27-35. doi: 10.2478/s11686-019-00125-w. Epub 2019 Sep 30.

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