

Varela-M, R.E., Mollinedo-Gajate, C., Muro, A. and Mollinedo, F. (2014). The HSP90 inhibitor 17-AAG potentiates the antileishmanial activity of the ether lipid edelfosine. *Acta Tropica* 131, 32-36.

HSP90 is an abundant protein in *Leishmania* parasites that plays a major role in the parasite survival under stress conditions. Here we found that the HSP90 inhibitor 17-AAG ($\geq 100\text{nM}$ 17-AAG) induced cell cycle arrest at G0/G1 in *Leishmania infantum* and *Leishmania panamensis* promastigotes, and highly potentiated the induction of cell death by an apoptotic-like process mediated by the ether phospholipid edelfosine (5-20 μM). These data suggest that the combined treatment of 17-AAG and edelfosine might be a novel and effective approach of combination therapy in the treatment of leishmaniasis.