

**THE COMBINATION BETWEEN A STANDARDIZED EXTRACT OF BRAZILIAN RED PROPOLIS WITH PRAZIQUANTEL
AGAINST *Schistosoma mansoni* IN VITRO**Matheus Zago^{1*}, Munky Glória Mouro¹, Daiane Albino dos Santos², Lucas Antonio de Lima Paula¹, Sérgio Ricardo Ambrósio¹, Jairo Kenupp Bastos³, Rodrigo Cassio Sola Veneziani¹, Conor R. Caffrey⁴ and Lizandra Guidi Magalhães¹

Affiliation 1: Research Center for Exact and Technological Sciences, University of Franca, Franca, 14404-600, Brazil

Affiliation 2: Agrarian and Environmental Sciences, SOANE NAZARÉ DE ANDRADE CAMPUS, State University of Santa Cruz, Ilhéus, 45662-900, Brazil

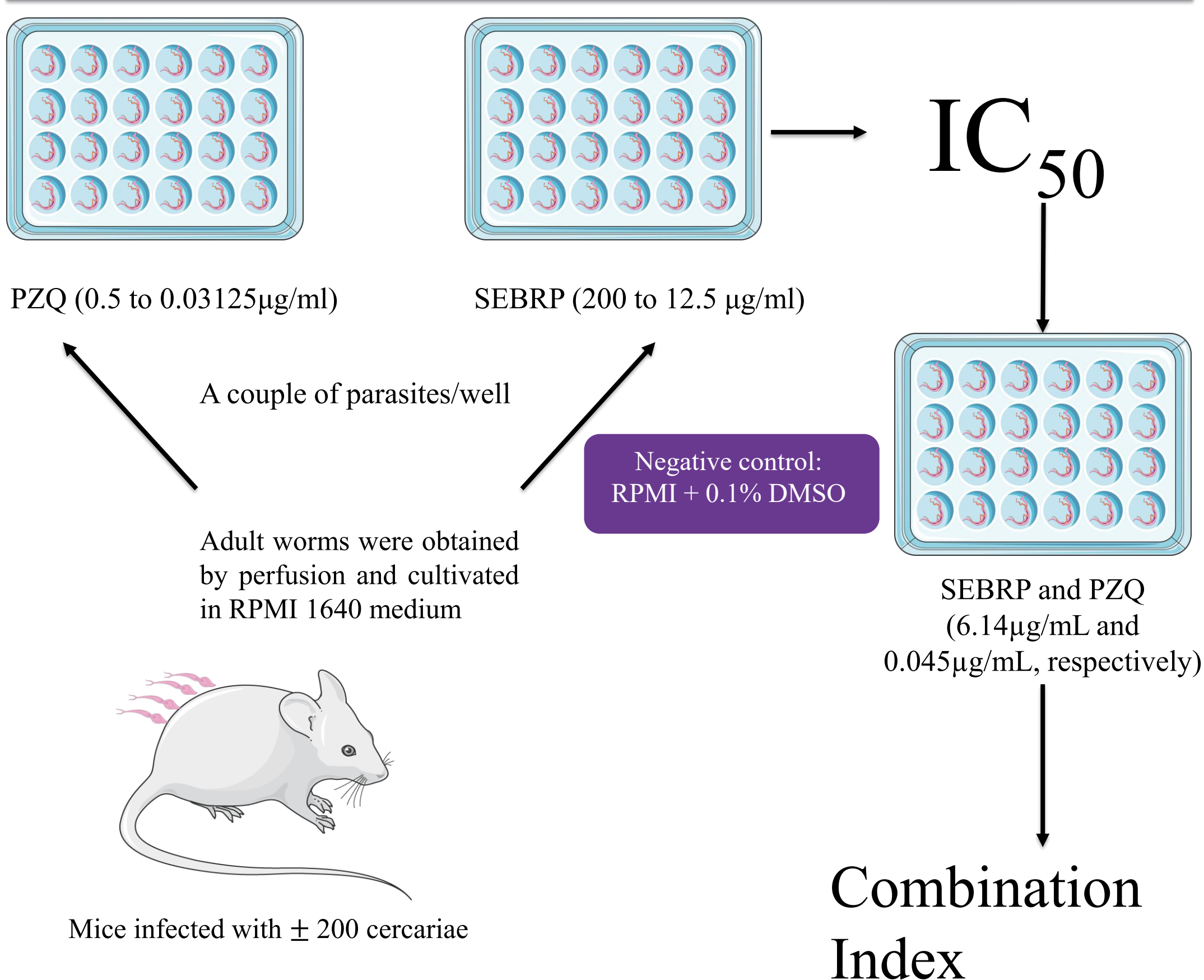
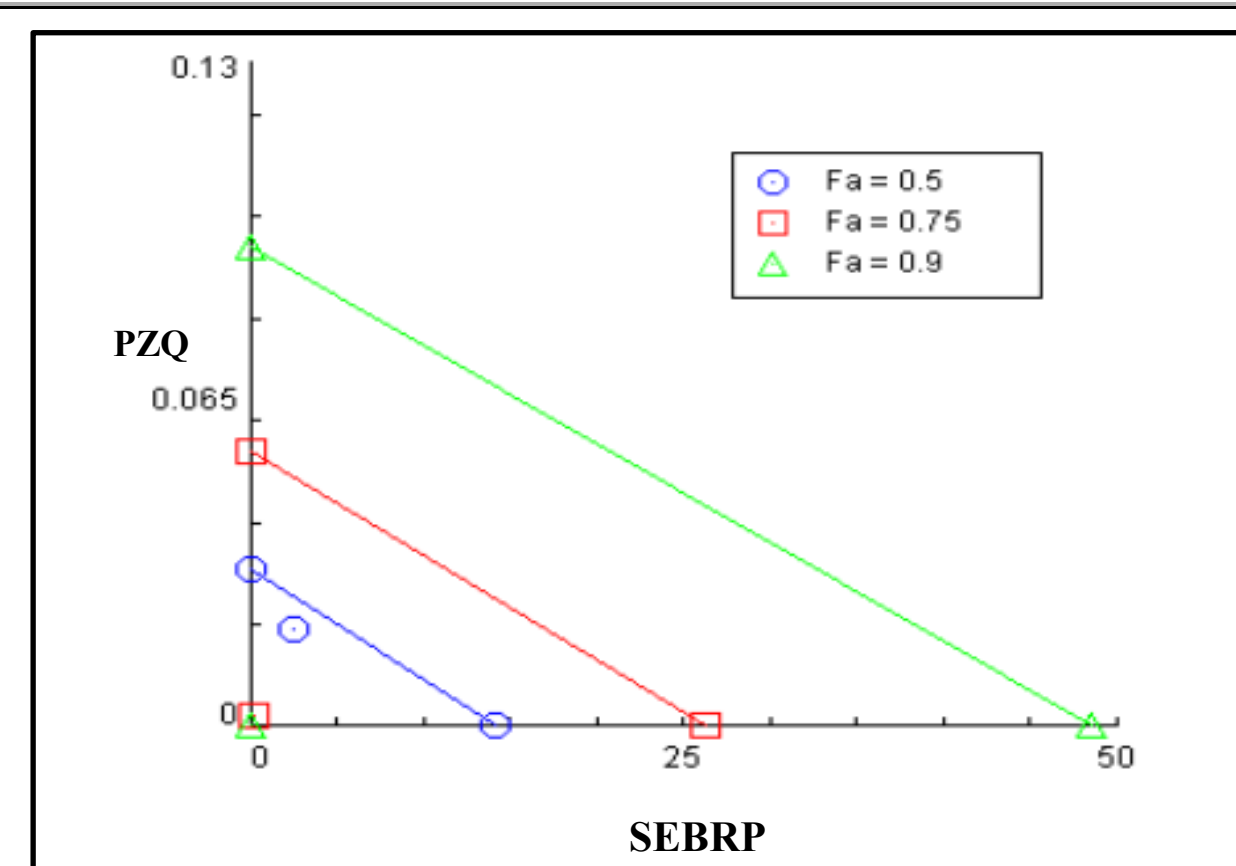
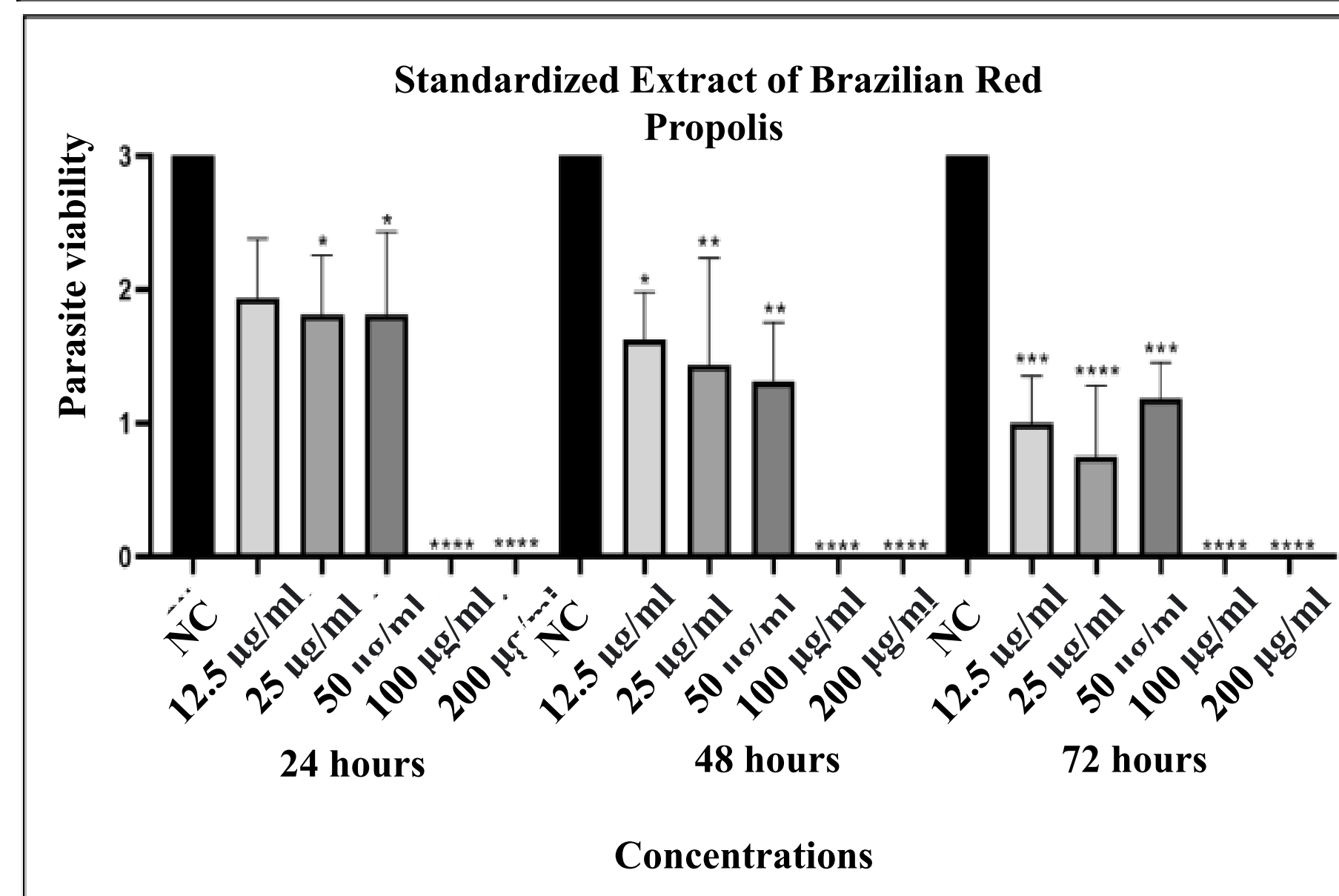
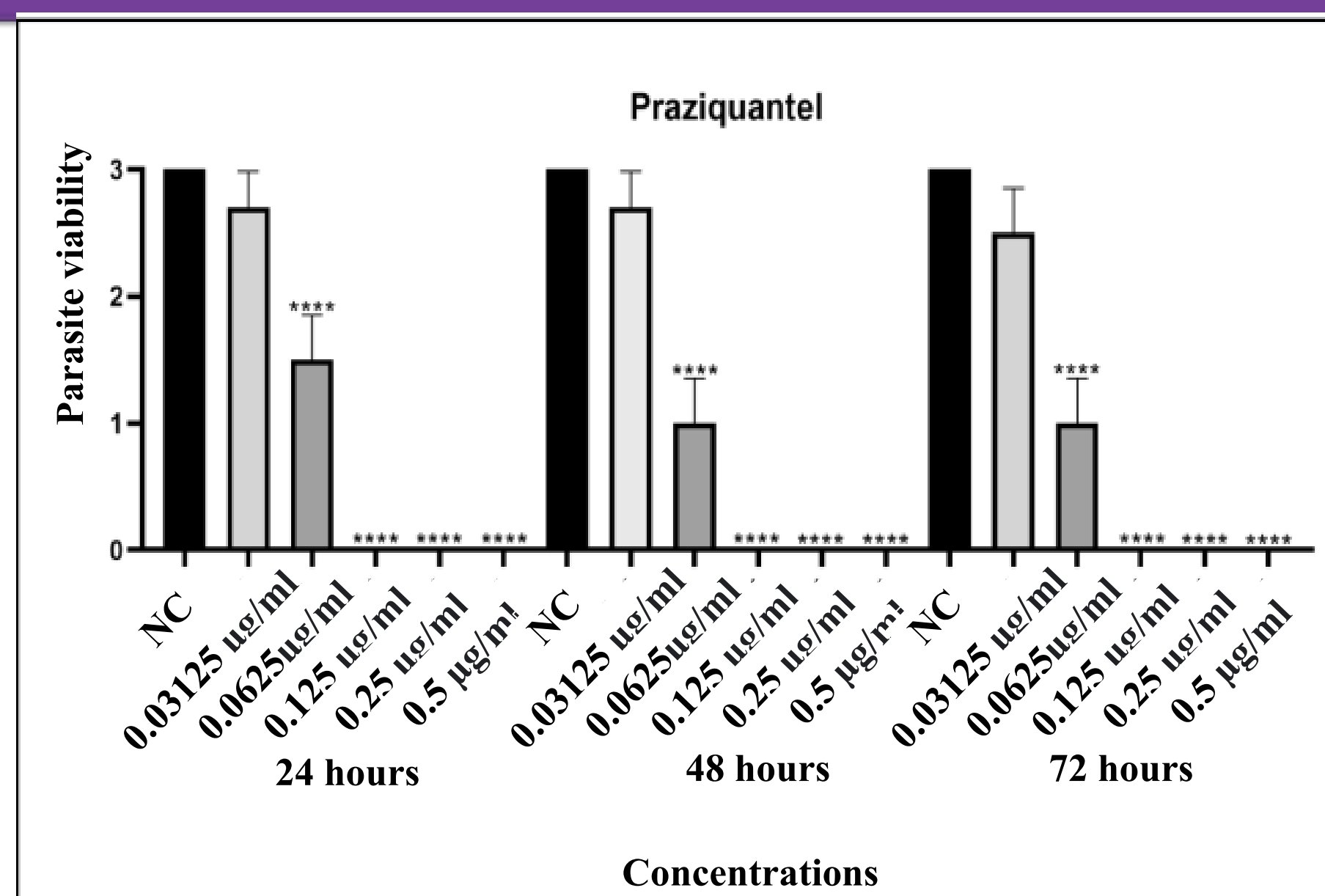
Affiliation 3: Pharmaceutical Sciences, Faculty of Pharmaceutical Sciences, University of São Paulo, Ribeirão Preto, 14040-900, Brazil

Affiliation 4: Center for Discovery and Innovation in Parasitic Diseases, Skaggs School of Pharmacy and Pharmaceutical Sciences, University of California, San Diego, 92093, USA

*E-mail: zago.matheus10@gmail.com

INTRODUCTION & AIM

Although praziquantel (PZQ) is being used for treatment of schistosomiasis, the description of regions which harbor *Schistosoma* strains that are less sensitive to PZQ underscores the need to identify new alternative to treat this disease. Combination therapy has become a promising strategy for several complex diseases which it can increase therapeutic efficacy, reduce toxicity and overcome drug resistance compared with single-drug administrations. Thus, as part of our contribution to developing the strategies for treatment against schistosomiasis, we evaluate the combination of PZQ with a standardized extract of Brazilian red propolis (SEBRP), a resinous bee product that presents several biological effects, on *S. mansoni* adult worms in vitro.

METHOD**RESULTS & DISCUSSION****CONCLUSION**

Based on these data, it was possible to observe that SEBRP plays an important schistosomicidal action in adult worms. In addition, combination of PZQ/SEBRP may be a promising strategy to treatment for schistosomiasis.

FUTURE WORK / REFERENCES