Poster Session

Saturday 29 June 2019
4:30 PM - 6:30 PM
Location: Salons 1-3

Methylene blue-mediated photodynamic therapy on cutaneous leishmaniasis. An *in vitro* and *in vivo* study

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Cutaneous leishmaniasis (CL) is a neglected disease, which promotes destructive lesions. Difficulties in treatment are related to resistance and toxicity. Methylene blue-mediated photodynamic therapy (MB-PDT) has emerged as a promising treatment considering low cost and no reports about resistance. We evaluated MB-PDT on *Leishmania amazonensis in vitro* and *in vivo* using a red LED at different fluences. Our results demonstrated that the best fluence *in vitro* was not effective *in vivo,* and a higher dose was necessary to provide better responses in mice. This study reinforces the idea that a well-planned protocol is necessary for a successful MB-PDT on CL.