

POSTER PRESENTATION

Open Access

# A new anti-malarial drug against murine malaria

Zahra Zamani<sup>1\*</sup>, Alireza Sadeghi Tafreshi<sup>4</sup>, Hossein Nahrevanian<sup>2</sup>, Mohammad Arjmand<sup>1</sup>, Behzad Lame-Rad<sup>4</sup>, Sedigheh Sadeghi<sup>1</sup>, Fatemeh Mirkhani<sup>1</sup>, Ali Eslamifar<sup>3</sup>, Fatemeh Pourfallah<sup>1</sup>, Ayda Iravani<sup>1</sup>, Farideh Wahabi<sup>1</sup>

From Institut Pasteur International Network Annual Scientific Meeting  
Hong Kong. 22-23 November 2010

Eosin B, a common laboratory dye has been earlier reported to have good anti protozoan properties *in vitro*. We studied this drug for its effect on a murine malaria strain, *Plasmodium berghei* (*Pb*) *in vivo* using different tests. Full suppressive 4 days Peter's Test was used in infected outbred and inbred mice, using both ip and oral routes. Secondary biological assessment was carried out using dose ranging, ED50 and ED90 values obtained. Eosin B anti malarial activity at 400 Ug/ml given in both the routes was similar to that of artemisine and mice survival rate was double that of control and 3 days more than artemisine. *Pb*GST activity was monitored and it was seen that eosin B lowered this enzyme activity. Eosin B seems to be a promising drug, exhibiting good anti malarial effects in the murine model of disease.

#### Author details

<sup>1</sup>Department of Biochemistry, Pasteur Institute of Iran, Tehran, Iran.

<sup>2</sup>Department of Parasitology, Pasteur Institute of Iran, Tehran, Iran.

<sup>3</sup>Department of Clinical Research, Pasteur Institute of Iran, Tehran, Iran.

<sup>4</sup>Department of Biochemistry, Payame Noor University of Tehran, Iran.

Published: 10 January 2011

doi:10.1186/1753-6561-5-S1-P17

**Cite this article as:** Zamani et al.: A new anti-malarial drug against murine malaria. *BMC Proceedings* 2011 5(Suppl 1):P17.

#### Submit your next manuscript to BioMed Central and take full advantage of:

- Convenient online submission
- Thorough peer review
- No space constraints or color figure charges
- Immediate publication on acceptance
- Inclusion in PubMed, CAS, Scopus and Google Scholar
- Research which is freely available for redistribution

Submit your manuscript at  
[www.biomedcentral.com/submit](http://www.biomedcentral.com/submit)



\* Correspondence: [zahrazamani@yahoo.com](mailto:zahrazamani@yahoo.com)

<sup>1</sup>Department of Biochemistry, Pasteur Institute of Iran, Tehran, Iran  
Full list of author information is available at the end of the article