

## PUBLICATIONS

1. **Singh, S.**, A. Mukherjee, A. R. Khomutov, L. Persson, O. Heby, M. Chatterjee, and R. Madhubala. 2007. Antileishmanial effect of 3-aminooxy-1-aminopropane is due to polyamine depletion. **Antimicrob. Agents Chemother.** **51**:528-534.
2. **Singh, S.**, A. Jhingran, A. Sharma, A. R. Simonian, P. Soininen, J. Vepsalainen, A. R. Khomutov, R. Madhubala. 2008. Novel agmatine analogue,  $\gamma$ -guanidinoxypropylamine (GAPA) efficiently inhibits proliferation of *Leishmania donovani* by depletion of intracellular polyamine levels. **Biochemical and Biophysical Research Communication** **375**:168-172.
3. Mukherjee, A., P. K. Padmanabhan, **S. Singh**, G. Roy, I. Girard, M. Chatterjee, M. Ouellette, and R. Madhubala. 2007. Role of ABC transporter MRPA,  $\gamma$ -glutamylcysteine synthetase and ornithine decarboxylase in natural antimony-resistant isolates of *Leishmania donovani*. **Journal of Antimicrobial Chemotherapy** **59**:204-211.
4. Maharjan, M., **S. Singh**, M. Chatterjee, R. Madhubala. 2008. Role of Aquaglyceroporin (AQP1) gene and drug uptake in Antimony-resistant clinical isolates of *Leishmania donovani*. **American Journal of Tropical Medicine and Hygiene** **79**(1): 69-75.
5. Jhingaran, A., P. K. Padmanabhan, **S. Singh**, Anamika, A. B. Abhijeet, S. Bhattacharya, A. Bhattacharya, N. Srinivasan, R. Madhubala. 2007. Characterization of the *Entamoeba histolytica* gene encoding ornithine decarboxylase and modeling of its 3-D structure. **PloS- Neglected Tropical Diseases**, **2** (1).
6. Padmanabhan, P. K, A. Mukherjee, **S. Singh**, S. Chattopadhyaya, V. S. Gowri, P. J. Myler, N. Srinivasan, R. Madhubala. 2005. Glyoxalase I from *Leishmania donovani*: A potential target for anti-parasite drug. **Biochemical and Biophysical Research Communications.** **337**:1237-1248.
7. B. Chawla, A. Jhingran, **S. Singh**, N. Tyagi, M. H. Park, N. Srinivasan, S. C. Roberts, R. Madhubala. 2009. "Identification and characterization of a novel deoxyhypusine synthase in *Leishmania donovani*". **J. Biol. Chem.** 2010 Jan 1; 285(1):453-63.

## **Papers/ Abstracts Presented/Seminars/ Symposia**

- 1. Oral presentation** on “Characterization of ornithine decarboxylase gene from *L. donovani*: A potential target for chemotherapy” **Sushma Singh** and R. Madhubala, at BIOSPARKS, Annual Research Festival 9<sup>th</sup>-10<sup>th</sup> March 2006, J.N.U., New Delhi.
- 2. Poster presentation** on “Ornithine decarboxylase: A potential chemotherapeutic target for Leishmaniasis.” **Sushma Singh** and R. Madhubala at International Training and Research in Emerging Infectious Diseases Asian Regional Workshop on Intracellular Pathogens, 8<sup>th</sup> -11<sup>th</sup> March, 2005, New Delhi.
- 3. Poster presentation** on “Antileishmanial effect of 3-aminooxy-1-aminopropane is due to polyamine depletion.” **Sushma Singh** and R. Madhubala, at 75<sup>th</sup> Annual Meeting of Society of Biological Chemists (INDIA), Jawaharlal Nehru University, New Delhi, December 8<sup>th</sup> -11<sup>th</sup>, 2006.
- 4. Oral presentation** on “Antileishmanial effect of 3-aminooxy-1-aminopropane on clinical isolates and ODC-overexpressing *L. donovani*” **Sushma Singh** and R. Madhubala, in Theoretical and Practical Course “ **Molecular Biology of *Leishmania***” held from 25<sup>th</sup> -27<sup>th</sup> October, in Trieste, Italy. It involved 14 h of lectures and 6 h of practicals. The topic covered were Overview and epidemiology, computer based analysis of the *Leishmania* genome, the sandfly vector, virulence factors involved in infection and recent advances in vaccine development.