

Short CV: Shaimaa Helmy:

Shaimaa Helmy "Lecturer of Medical Parasitology, Theodor Bilharz Research Institute (TBRI)". Graduated from Faculty of Medicine, Cairo University (B.Sc.). Completed post graduate studies in Medical Parasitology, (M.Sc.; M.D.). Carried research work on molecular parasitology, immunoparasitology, diagnosis and treatment of medically important parasites. The incorporated research topics were on: Study the effect of different natural and synthetic agents on infected experimental animals as well as nanoparticles technology. In details, my research interests focus on molecular diagnosis of parasites of medical importance specially those affecting gastrointestinal tracts of humans such as opportunistic protozoa which affecting immunocompromised individuals. Also, finding out novel bioactive antiparasitic chemo-preventive and chemo-therapeutic agents from the medicinal plants or synthetic drugs conjugated with nanoparticles. Participated in 3 internal research projects funded by TBRI one of them worked as principal investigator and the others worked as a participant. Published 7 research articles in peer reviewed national and international journals and conferences. Supervised 2 M.Sc. and 1 M.D. thesis. Worked as member in Technology, Innovation and Commercialization Office (TBRI-TICO) and Council Secretary of Immunology & Drug Evaluation Department.

List of most relevant publications

- 1- **El-Sayed S.H.**, Kamel M.M., Hassan S.I., El-Badry A.A., Mahmoud S.S., Hamam O.A. (2012): Resistance to re-infection with *Schistosoma mansoni* in mice treated with Mefloquine.

(Was Presented in XI EUROPEAN MULTICOLLOQUIUM OF PARASITOLOGY (EMOP XI) held in CLUJ-Napoca, Romania from 25 to 29 July 2012.) <http://www.zooparaz.net/emop11/>

- 2- **Shaimaa H. El-Sayed**, Maysa M.K. Sobhhy, Soaad I. Hassan, Nagwa T. Elkhafef, Soheir S. Mahmoud, Olfat A. Hamam, Ayman A. El-Badry (2012): Role of Mefloquine in Murine Schistosomiasis mansoni as A Prophylactic and Chemotherapeutic Agent.

(Was presented in 3rd Egyptian Parasitologists United Conference (EPU III), held in Cairo, Egypt between 10-11 October, 2012)

- 3- Mona M. Aly, Maisa A. Shalaby, Samar S. Attia, **Shaimaa H. El Said**, Soheir S. Mahmoud: (2013) Therapeutic Effect of Lauric Acid, A Medium Chain Saturated Fatty Acid on *Giardia lamblia* in Experimentally Infected Hamsters. *Parasitologists United Journal* 6 (1): 89-98.

- 4- Maysa M.K. Sobhy, Soaad I. Hassan, Ayman A. El-Badry, **Shaimaa H. El-Sayed**, Soheir S. Mahmoud, Olfat A. Hamam, Hoda Y. Sabry. (2014): Tissue mast cells density in mefloquine, artemether and praziquantel treated *Schistosoma mansoni* infected mice.

(Was presented in 6th Asean Congress of Tropical Medicine and Parasitology GLOBAL CHALLENGES IN TROPICAL DISEASES @ ACTMP VI) held in Kuala Lumpur, Malaysia between 5-7 March 2014). P.106.

- 5- Ayman A. El-Badry, Yaser A. El-Badry, Soheir S. Mahmoud, **Shaimaa H. El-Sayed**, Maha. M.A. Basyoni. (2014): Anti-Schistosomal activity of Mefloquine-Silver nano-particles composite in *Schistosoma mansoni*-infected mice. EPU IV Conference.

(Was presented in 4th Egyptian Parasitologists United Conference (EPU IV), held in Cairo, Egypt between 15-16 November, 2014)

- 6- Mona M. Khater, **Shaimaa H. El-Sayed**, Hebat-Allah S. Yousof, Soheir S. Mahmoud, Ayman A. El-Badry. (2014): Anti-Cryptosporidium Activity of *Olea europaea* and *Actinidia deliciosa* in Experimentally Infected Mice

(Was presented in 4th Egyptian Parasitologists United Conference (EPU IV), held in Cairo, Egypt between 15-16 November, 2014).

- 7- Hebat-Allah S. Yousof, Mona M. Khater, **Shaimaa H. El-Sayed**, Ayman A. El-Badry: Early Detection of Cryptosporidium: Diagnostic Biomarkers in Murine Model.

(Was presented in 4th Egyptian Parasitologists United Conference (EPU IV), held in Cairo, Egypt between 15-16 November, 2014).

Research projects:

Participant in the following internal projects:

- 1- Efficiency of the anti-parasitic agents' mefloquine against schistosomiasis. *In vivo* study.
- 2- Detection of infective stages of medically important parasites contaminating water bodies.

Principal Investigator of the following project:

- 1- Effect of synthetic and natural agents on molecularly characterized *Cryptosporidium* species: an experimental model.