

## CURRICULUM VITAE

### PERSONAL INFORMATION

**Name:** Manar Sobh Azab

**Phones:**

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**Work address:** Department of Parasitology, Mansoura Faculty of Medicine, Mansoura University, 2 El Gomhouria Street, Mansoura-Egypt.

**Home address:** 2<sup>nd</sup> quarter- 6<sup>th</sup> district- 76/12- Apt.3, New Domiat-Domiat-Egypt.

**E. mail:** [manaryym@yahoo.com](mailto:manaryym@yahoo.com), [msazab@mans.edu.eg](mailto:msazab@mans.edu.eg)

### Qualifications

1. **Medical Degree (M.B.B.Ch)** in Medicine and Surgery, November 1994, from Faculty of Medicine, Mansoura University and was signed up “Excellent with Honor.”
2. **M. Sc.** in Basic Medical Science (Main: Parasitology, Subsidiary: Microbiology and Immunology), November 1999, from Faculty of Medicine, Mansoura University and was signed up “Very Good”. Thesis title “Opportunistic Intestinal Parasitic Infections In Immunocompromised Children”.
3. **Ph. D.** in Basic Medical Science (Parasitology), April 2004, from Faculty of Medicine, Mansoura University. “Antibody Response In Different Clinical Patterns Of Schistosoma Mansoni Infection”.

### Employment History

- 1- House officer, Mansoura University Hospitals, Egypt. **March 1995-February 1996.**
- 2- General Practitioner, Ministry of Health Hospitals, Egypt. **March 1996-May 1996.**
- 3- Demonstrator of Medical Parasitology, Faculty of Medicine, Mansoura University. **May 1996-February 2000.**
- 4- Assistant Lecturer of Medical Parasitology, Faculty of Medicine, Mansoura University. **February 2000 - July 2004.**

5- Lecturer of Medical Parasitology, Faculty of Medicine, Mansoura University. **July 2004 - July 2009.**

6- Associate Professor of Medical Parasitology, Faculty of Medicine, Mansoura University. **July 2009 - November 2015.**

7- Professor of Medical Parasitology, Faculty of Medicine, Mansoura University. **November 2015 to present.**

### **Professional qualifications**

-**Antigens preparation.**

-**Extraction and analysis of samples using High Performance Liquid Chromatography.**

-**Molecular biology techniques as:** extraction, purification, quantitation and analysis of DNA & RNA using gel electrophoresis, PCR, HLA typing.

-**Enzyme-linked immunoassays:** for detection of antigens, immunoglobulins and cytokines, using human and mice sera.

- **Flow cytometry.**

### **Scientific activities:**

- Scopus ID (manaryym@yahoo.com), (H-index = 8)
  - Google scholar (H-index= 12 )
  - ORCID ID: <https://orcid.org/0000-0002-0942-3865>
  - publons Research ID: <https://publons.com/researcher/3080818/manar-azab/>
  - ResearchGate: [https://www.researchgate.net/profile/manar\\_azab](https://www.researchgate.net/profile/manar_azab)
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- Patents and publications
1. Nouredin, M.S.; El-Shinnawy, H.A.; **Azab, M.S.**; El-Malky, M.A.; El-Naggar, H.S.; Abbas, A.T. and Youssef, M.E. (2005): Detection of specific secretory IgA in saliva and stool of patients for diagnosis of *Schistosoma mansoni*. *Benha M. J.*, 22(2): 25-14.
  2. El-Shazly, A.M., El-Nahas, H.A., Abdel-Magied, A.A., El-Beshbishi, S.N., **Azab, M.S.**, Abou El Hasan, M., Arafa W.A. and Morsy, T.A. (2005). Human fascioliasis and anaemia in Dakahlia Governorate. *J. Egypt. Soc. Parasitol.*, 35 (2):421-432.
  3. Nouredin, M.S.; El-Shinnawy, H.A.; **Azab, M.S.**; El-Malky, M.A.; El-Naggar, H.S.; Abbas, A.T. and Youssef, M.E. (2005): Antibody isotype responses in different clinical patterns of *Schistosoma mansoni*. *Egypt. J. Med. Sci.*, 26(2): 849-966.

4. El-Shazly, A.M., **Azab, M.S.**, El-Beshbishi, S.N. El-Nahas, H.A., Abdel-Magied, A.A., Abou El-Hasan, M., Monib, M.S. and Morsy, T.A. (2005). Some molecular aspects in schistosomiasis mansoni and toxoplasmosis. J. Egypt. Soc. Parasitol., 35 (3):795-808.
5. El-Beshbishi, S.N., Abdel-Magied, A.A., El-Nahas, H.A., **Azab, M.S.**, and El-Shazly, A.M., Morsy, A.T., Gamal-Edin, M.K. and El-Kadi, M.A. (2005). Geoparasites in rural Dakahlia Governorate, a preliminary based study for development of the community-based intervention programs. J. Egypt. Soc. Parasitol., 35 (3):1051-70.
6. El-Shazly, A.M., El-Beshbishi, S.N., **Azab, M.S.** and El-Nahas, H.A., Soliman, M.E., Fouad, M.A. and Monib, M.E. (2006). Present situation of house dust mites in Dakahlia Governorate, Egypt. J. Egypt. Soc. Parasitol., 36 (1):113-126.
7. Handousa, A.E., **Azab, M.S.**, El-Beshbishi, S.N. and El-Nahas, H.A. (2007): Comparative study between Immunohistochemical grading and Giardia genotyping among symptomatic and asymptomatic humans. The Egyptian Journal of Immunology., 14 (2): 63-72.
8. El-Nahas, H.A., El-Beshbishi, S.N., **Azab, M.S.**, Zaalouk, T. KH., ELsheikha, H. M., Saleh, A. M. and El-Shazly, A.M. (2007): Diagnostic criteria for house dust mites sensitized allergic patients. J. Egypt. Soc. Parasitol., 37 (Suppl. 3):1113-1124.
9. El-Shazly, A.M., El-Beshbishi, S.N., **Azab, M.S.**, Sakr, T.I., El-Fayoumy, K.N., Abdel Maboud A.I., El-Ghareeb, A.S. and Elsheitka, H.M. (2008): Gastroduodenal injuries in Helicobacter pylori infected patients with concurrent schistosomiasis or fascioliasis. Egypt. J. Med. Sci., 29 (2): 593-603.
10. El-Shazly, A.M., **Azab, M.S.**, El-Beshbishi, S.N., Sakr, T.I., El-Fayoumy, Kh.N., El-Ghareeb, A.S., Hafez, A.O. and El Sherbini, E.T. (2008): Biochemical parameters in chronic fascioliasis. J. Egypt. Soc. Parasitol., 38 (3):977-990.
11. Elshazly, A.M., **Azab, M.S.**, El-Beshbishi, S.N. and Elsheitka, H.M. (2009): Hepatic hydatid disease: four case reports. Cases Journal. 2(1): 58 - 61.
12. Elsheitka, H.M., Azab, M.S., Abousamra, N.K., Rahbar, M.H., Elghannam, D.M. and Raafat, D. (2009): Seroprevalence of and risk factors for *Toxoplasma gondii* antibodies among asymptomatic blood donors in Egypt. Parasitology Research.
13. **Azab, M.S.**, El-Fayoumy, Kh.N., Neamatallah, M.N. and EL-Adi, T. (2009): Flow Cytometric Study of T-Cell Subsets and Costimulatory Molecules in Clinical Forms of Human Schistosoma mansoni Chronic Infection. Benha M. J., 26(2): 57-70.
14. El-Shazly, A.M., Mohammed, R.M., El-Beshbishi, S.N., **Azab, M.S.**, El-Ghareeb, A.S., Abdel-Tawab, A.H. And Zalook, T.Kh. (2009): Soil-Parasites Particularly

*Toxocara* Eggs in Egypt. J. Egypt. Soc. Parasitol., 39 (1), 2009: 151 – 162.

15. Zaki M, Raafat D, El Emshaty W, **Azab MS**, Goda H. Correlation of *Trichomonas vaginalis* to bacterial vaginosis: a laboratory-based study. J Infect Dev Ctries **2010**; 4(3):156-163.
16. El-Beshbishi S.N., Taman A., El-Malky M.A., **Azab M.S.**, El-Hawary A.K., El-Tantawy D.A. First insight into the effect of single oral dose therapy with artemisinin-naphthoquine phosphate combination in a mouse model of *Schistosoma mansoni* infection. Int. J. Parasitol., 43(7):521-530, **2013**.
17. El-Beshbishi S.N., Taman A., El-Malky M.A., **Azab M.S.**, El-Hawary A.K., El-Tantawy D.A. In vivo effect of single oral dose of artemether against early juvenile stages of *Schistosoma mansoni* Egyptian strain. Exp. Parasitol., 135(2):140-145, **2013**.
18. Taman A and **Azab M**. Present-day anthelmintics and perspectives on future new targets. Parasitol Res (**2014**) 113(7):2425–2433.
19. Taman A, El-Beshbishi S, El-Tantawy N, El-Hawary A, **Azab M**. Evaluation of the in vivo effect of ivermectin on *Schistosoma mansoni* in experimentally-infected mice. Journal of Coastal Life Medicine **2014**; 2(10): 817-823.
20. El-Henawy A, Abdel-Razik A, Zakaria S, Elhammady D, SaudyN, **Azab MS**. Is toxoplasmosis a potential risk factor for liver cirrhosis? Asian Pacific Journal of Tropical Medicine (**2015**).
21. Abu El-Fetouh NI, Abdelmegeed ES, Attia RA, El-Dosoky I, **Azab MS**. Genotyping of *Blastocystis hominis* symptomatic isolates and kinetics of associated local CD3 and CD20 cell infiltrate. Parasitologists United Journal, 8(2), **2015**.
22. Samar Habib, Abdeljabar El andaloussi, Khaled Elmasry, Aya Handoussa, **Manar Azab**, Aliaa Elsayey, Ayman Al-Hendy, Nahed Ismail. PDL-1 blockade prevents T cell exhaustion, inhibits autophagy, and promotes clearance of *Leishmania donovani*. Infect. Immun; 86(6). pii: e00019-18. doi:10.1128/IAI.00019-18.
23. Manal Elzoheiry, Akram A. Da'dara, Rita Bhardwaj, Qiang Wang, **Manar S. Azab**, El-Saeed I. El-Kholy, Samar N. El-Beshbishi, and Patrick J. Skelly. Intravascular *Schistosoma mansoni* Cleave the Host Immune and Hemostatic Signaling Molecule Sphingosine-1-Phosphate via Tegumental Alkaline Phosphatase. Front Immunol; 9: 1746. doi: 10.3389/fimmu.**2018**.01746.

24. Mamdouh Hegazy Manar Elmehankar, Azza Abdel-Aziz, Nora El-Tantawy, **Manar Azab**. Sex dichotomy in the course of experimental latent toxoplasmosis. *Exp Parasitol*; 202:15-21, **2019**.
25. Ahmed M. Gomaa, Nora L .El-Tantawy, Aliaa M. Elsayey, Ramy A. Abdelsalam, **Manar S. Azab**. The course of infection with *Toxoplasma gondii* RH strain in mice pre-vaccinated with gamma irradiated tachyzoites. *Exp. Parasitol.*, 205:107733. DOI: 10.1016/j.exppara.2019.107733, **2019**.
26. Mamdouh M. Hegazy, Mona K. Hegazy, **Manar S. Azab** and Nairmen Nabih. Validation of dried blood spots in monitoring toxoplasmosis. *Pathogens and global health*. **2020**. <https://doi.org/10.1080/20477724.2020.176512518>.

## **SUPERVISED THESES**

### **I- Master Degree**

- 1. Essay title:** Diagnostic procedures of protozoa affecting liver, 2006.  
Candidate name: Aliaa Mohamed Abd-Allatif  
Medical Parasitology Department, Faculty of Medicine, Mansoura University.
- 2. Essay title:** *Anisakis Simplex* and diagnosis, 2008.  
Candidate name: Marwa Magdy Hamouda  
Medical Parasitology Department, Faculty of Medicine, Mansoura University.
- 3. Essay title:** Capillariasis: Updated, 2009.  
Candidate name: Wafa Atef Abo Kamar  
Medical Parasitology Department, Faculty of Medicine, Mansoura University.
- 4. Essay title:** Carcinogenic Parasites, 2010.  
Candidate name: Amira Khalil Al-Azab  
Medical Parasitology Department, Faculty of Medicine, Mansoura University.
- 5. Thesis title:** Validation of the dried blood spots in monitoring toxoplasmosis, 2014.  
Candidate name: Mona Kamel Hegazy  
Medical Parasitology Department, Faculty of Medicine, Mansoura University.
- 6. Thesis title:** The course of infection with *Toxoplasma gondii* RH strain in mice pre-vaccinated with gamma irradiated tachyzoites, 2016.

Candidate name: Ahmed Mohammed Ibrahim Gomaa  
Medical Parasitology Department, Faculty of Medicine, Mansoura University.

**7. Thesis title:** *In vivo* activity of a thiazole derivative of artemisinin against experimental chronic toxoplasmosis. 2020

Candidate name: Mohamed Mahmoud Hassan Elmetwaly

Medical Parasitology Department, Faculty of Medicine, Mansoura University.

## **II. Ph. D. Degree**

**1. Thesis title:** Histopathology and serological diagnosis of human hydatidosis, 2007.

Candidate name: Naglaa Mohamed Mohamed Shalaby

Medical Parasitology Department, Faculty of Medicine, Mansoura University.

**2. Thesis title:** *Blastocystis hominis*: Immuno-molecular Studies. 2010.

Candidate name: Nora Ibrahim Abu El-Fetouh

Medical Parasitology Department, Faculty of Medicine, Mansoura University.

**3. Thesis title:** Sex-dichotomy in the course of experimental latent toxoplasmosis, 2014.

Candidate name: Manar Safwat Salem

Medical Parasitology Department, Faculty of Medicine, Mansoura University.

**4. Thesis title:** Characterization of schistosome-host interactive tegumental proteins, 2014.

Candidate name: Manal Ali Hedar.

Medical Parasitology Department, Faculty of Medicine, Mansoura University.

**5. Thesis title:** Blockade of PD-1/PD-L1 pathway as an immunotherapeutic mechanism in visceral leishmaniasis, 2015.

Candidate name: Samar Mostafa Habeeb.

Medical Parasitology Department, Faculty of Medicine, Mansoura University.

## **Attended workshops**

-The Preparatory course for University Teachers, July 1996, Faculty of Education, Mansoura University.

-The Scientific Research Course. Held in (Mansoura-Egypt) on October 2004.

-The 9<sup>th</sup> Egyptian-French seminar & workshop on immunology & molecular biology titled: Advances in immune & cell therapy. The postgraduate educational course of clinical immunology. Held in (Urology & Nephrology Center-Mansoura, Egypt) on March 5-17,

2005.

- The workshop on immunology and molecular biology. The 9th Egyptian-French seminar titled: Advances in immune & cell therapy. Held in (Clinical Pathology Department-Immunology Unit-Mansoura, Egypt) on March 21-22, 2005.
  
- Medical course titled: Skills lab teaching skills. Held in (Mansoura-Egypt) on April, 2006.
  
- The 10<sup>th</sup> Egyptian-French seminar & workshop on immunology & molecular biology titled: Cell & immune therapy. The postgraduate educational course of clinical immunology. Held in (Urology & Nephrology Center-Mansoura, Egypt) on April 16-27, 2006.
  
- The workshop on immunology and molecular biology "PCR: Hand Practice". The 10th Egyptian-French seminar titled: Cell & immune therapy. Held in (Clinical Pathology Department-Immunology Unit-Mansoura, Egypt) on May 2-3, 2006.
  
- Medical course titled: Students assessment in the skill lab. Held in (Mansoura-Egypt) on May, 2006.
  
  
- The workshop on criteria of proper examination questions. Held in (Faculty of Education-Mansoura University, Egypt) on May 9, 2007.
  
  
- The 11<sup>th</sup> International Egyptian-French workshop on immunology & molecular biology titled: Stem cell therapy. Held in (Clinical Pathology Department-Immunology Unit-Mansoura, Egypt) on November 6-7, 2007.
  
- The 12<sup>th</sup> Egyptian-French seminar & workshop on immunology & molecular biology titled: Regenerative Medicine. The postgraduate educational course of clinical immunology, on November 30- December 3, 2008.
  
  
- The workshop titled: Applications of High Performance Liquid chromatography. Held in Medical Biochemistry Department – Faculty of Medicine – Mansoura University, on February 17, 2009.
  
  
- The workshop titled: Laboratory Performance and Quality Assurance. Held in the Medical Technology Center – Medical Research Institute - Alexandria University, on February 19-21, 2009.
  
  
- The workshop titled: “Molecular Biology Techniques”- Held in Medical Biochemistry Department-Faculty of Medicine-Mansoura University, on April 23, 2009.
  
  
- The workshop titled: “Hands on Basic Techniques in Cell Culture”- Held at the Medical Technology Center for Research and Services - Alexandria University, on February 21-

23, 2010.

- The workshop titled: “Basics and Applications of High Performance Liquid Chromatography (HPLC) and Gas Chromatography (GC) in Medical Biochemistry”- Held at the Medical Technology Center for Research and Services - Alexandria University, on April 12-15, 2010.
  
- The Statistical Analysis Using SPSS course. Held in the faculty and leadership development Center, University Development Center, Mansoura University, Egypt on October 31 to November 11, 2010.
  
- The workshop titled: “DNA polymorphism and Bioinformatics”- Held in Medical Biochemistry Department-Faculty of Medicine-Mansoura University, on February 9-12, 2013.
  
- The PBL Training Course, Mansoura Manchester Program for Medical Education. Held in Mansoura Faculty of Medicine, Mansoura, Egypt on November 2-5, 2013.
  
- The workshop titled: “Apoptosis Assay Methods”- part of The 20th International Conference of the Egyptian Society for Medical Microbiology, In Collaboration with Medical Microbiology and Immunology Department. Held in Medical Microbiology and Immunology Department-Faculty of Medicine-Mansoura University, on February 27-28, 2014.
  
- Mansoura Perspective for Cord Stem Cells Educational Course. Held in Mansoura Faculty of Medicine, Mansoura, Egypt on December 9-11, 2014.
  
- Criteria of well-written structured short essay question (SSEQ). Medical education unit, Faculty of Medicine, Mansoura University, March, 2017.
  
- Criteria of well-written A type mcq. Medical education unit, Faculty of Medicine, Mansoura University, April, 2017.
  
- Criteria of well-written extended matching questions (EMQ). Medical education unit, Faculty of Medicine, Mansoura University, January, 2018.
  
- برنامج الهيئة القومية لضمان جودة التعليم والاعتماد: التقويم الذاتي للبرامج التعليمية: كليات ومعاهد التعليم العالي-17- 2019/11/19 -
  
- Basics of research, Faculty of Medicine, Alexandria University, 2020.
  
- Leadership and Change Management, Faculty of Medicine, Alexandria University, 2020.



**Other activities:**

**A. Books**

- Co-author of Human Parasitology, Faculty of Medicine, Mansoura University, since **2009**.
- Author of Medical Human Parasitology, Faculty of Pharmacy, HORUS University.

**B- Teaching experience: (courses developed and/or taught)**

-Expertise in teaching academic and laboratory Parasitology for both under graduate medical students and students of Manchester Medical School and graduate students (Parasitology, Clinical Pathology, Microbiology, Biochemistry, Public Health and Tropical Medicine departments).

- Development and teaching of parasite immunology courses for master and doctorate degrees of Medical Parasitology.

**C- Member of quality unit, Mansoura Faculty of Medicine.**

**D- Invited speaker:**

-Updates and Spotlights on Some Hepatobiliary Parasites. The 5th annual conference of Internal Medicine Department, Specialized Medical Hospital, Mansoura Faculty of Medicine. Mansoura-Port Said, Egypt, **May 20-21, 2010**.

**Awards**

1. Mansoura University, Faculty of Medicine, scientific publication award, 2014.
2. Mansoura University, Faculty of Medicine, scientific publication award, 2018.