

CURRICULUM VITAE

Personal data:

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Work address: Department of Medical Parasitology, Faculty of Medicine, Mansoura University,
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Current position: Head of Medical Parasitology Department, Faculty of Medicine, Mansoura University, Egypt, since **December 2020**.

Qualifications:

-Ph.D., Medical Parasitology (Basic Medical Science), Faculty of Medicine, Mansoura University, **April 2004**.

-M.Sc., Medical Parasitology (Basic Medical Science), subsidiary: Microbiology and Immunology, Faculty of Medicine, Mansoura University, **May 1996**.

-M.B.B.Ch., Faculty of Medicine, Mansoura University, **November 1990**.

Employment history:

-Professor of Medical Parasitology, Faculty of Medicine, Mansoura University (**July 2014-present**).

-Associate Professor of Medical Parasitology, Faculty of Medicine, Mansoura University (**July 2009-2014**).

-Post-Doctoral Fellow, Department of Pathology, UTMB, Galveston, Texas-U.S.A. (**September 2007- 2008**).

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

-Graduate student, sponsored by the Egyptian Ministry of High Education as a part of Internal Mission Program, Pathology Department, WHO Collaborating, Center for Tropical Diseases, UTMB, Galveston, Texas-U.S.A. (**July 2001-August 2003**).

-Assistant Lecturer of Medical Parasitology, Faculty of Medicine, Mansoura University (**August 1996-July 2004**).

-Demonstrator of Medical Parasitology, Faculty of Medicine, Mansoura University (**May 1993-August 1996**).

-Resident, Mansoura University Hospital, Emergency Department (**November 1992-May 1993**).

-General Practitioner, Ministry of Health Hospitals (**March 1992-November 1992**).

-House officer, Mansoura University Hospitals (**March 1991-February 1992**).

Professional qualifications:

-Antigens preparation, purification and analysis using 1-D PAGE, isoelectric focusing, and 2-D PAGE.

- Protein discovery** using 2-DE, western blot and proteomics using computer assisted image analysis (Investigator HT Analyzer, Genomic Solutions Software).
- Protein chip arrays** using Surface enhanced laser desorption/ionization-time of flight-mass spectrometry (Ciphergen SELDI-TOF-MS).
- Purification and fractionation of protein** using Proteome Lab protein purification system (Beckman Coulter PF2D).
- 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, blotting methods, PCR, HLA typing by non-isotopic reverse dot blot (Innolipa).
- Immunoprecipitation of immune complexes.**
- Enzyme-linked immunoassays:** for detection of antigens, immunoglobulins, cytokines, and specific circulating immune complexes, using human and mice sera.
- ELI Spot assays:** using human cells.
- Dot blot assays.**
- Abbott Architect ci8200** (chemical/immunoassay analyzer) and **Abbott Architect i1000 & i2000** (immunoassay analyzer).
- Culture of *Trypanosoma cruzi*.**
- Mice use in research.**

Scientific activities:

-**Scopus ID:** 12770855600, h-index: 9.

-**Google scholar:**

<https://scholar.google.com/eg/citations?hl=en&user=&user=yHO3lNcAAAAJ>,

h-index: 12; i10-index: 14.

-**ORCID ID:** <https://orcid.org/0000-0002-5006-0867>

-**Publons Research ID:** <http://www.researcherid.com/rid/Q-7876-2018>

-**Research Gate Profile:** https://www.researchgate.net/profile/Samar_El-Beshbishi2

-**Academia.edu Profile:** <https://mansoura.academia.edu/samarElbeshbishi>

-**Publications:**

1. Vitamin B6 acquisition and metabolism in *Schistosoma mansoni*. Front. Immunol., 11:622162, **2021**. doi: 10.3389/fimmu.2020.622162.
2. *Toxoplasma gondii* infection among Egyptian children with neurological disorders: developmental and risk factors analysis. PUJ, 13(3): 190-196, **2020**.
3. *Trichomonas vaginalis* serostatus and prostate cancer risk in Egypt: A case-control study. Parasitol. Res., **2020**. doi: 10.1007/s00436-020-06942-7.
4. In vitro efficacy of new synthetic benzimidazole-related compounds against *Schistosoma mansoni* adult worms. Asian Pac. J. Trop. Med., 13(12): 566-572, **2020**.
5. Clinical characteristics *versus* human leukocyte antigen class-II DRB1 alleles profiles and fecal calprotectin level in *Giardia lamblia*-infected children. PUJ, 13(2): 126-134, **2020**.
6. Omega polyunsaturated fatty acids and parasitic infections: An overview. Acta Trop., 14:105466, **2020**.
7. Effect of a newly synthesized quinolone-based compound (PPQ-8) on murine schistosomiasis mansoni. J. Helminthol., 94, e123, 1-8, **2020**.

8. Correlation between human leukocyte antigen class-II DRB1 alleles and *Giardia lamblia* infection in children: A case-control study. *Asian Pac. J. Trop. Med.*, 13(2): 56-61, **2020**.
9. Laboratory diagnosis of schistosomiasis mansoni: Current status and future trends. *Asian Pac. J. Trop. Med.*, 12(6): 234-246, **2019**.
10. Schistosomes can hydrolyze proinflammatory and prothrombotic polyphosphate (polyP) via tegumental alkaline phosphatase, SmAP. *Mol. Biochem. Parasitol.*, **2019** May 30; 232:111190.
11. Effect of omega-3 fatty acids administered as monotherapy or combined with artemether on experimental *Schistosoma mansoni* infection. *Acta Trop.*, 194:62-68, **2019**.
12. Biological activity of artemisinin-naphthoquine phosphate on *Schistosoma haematobium* stages and the vector *Bulinus truncatus*. *Trans. R. Soc. Trop. Med. Hyg.* **2019**. doi: [10.1093/trstmh/try144](https://doi.org/10.1093/trstmh/try144).
13. Seroprevalence of *Toxoplasma gondii* infection in children with central nervous system disorders in Mansoura, Egypt: a case-control study. *Trans. R. Soc. Trop. Med. Hyg.* 112(12):555-560, **2018**.
14. Intravascular *Schistosoma mansoni* cleave the host immune and hemostatic signaling molecule sphingosine-1-phosphate via tegumental alkaline phosphatase. *Front. Immunol.*, 9:1746, **2018**.
15. Effectiveness of vinpocetine and isosorbide-5-mononitrate on experimental schistosomiasis mansoni: biochemical and immunohistochemical study. *Acta Trop.*, 186:16-23, **2018**.
16. Efficacy of Artemisinin-naphthoquine phosphate against *Schistosoma haematobium* adult flukes: dose-effect relationship and tegumental alterations. *J. Helminthol.*, 21:1-6, **2018**.
17. The essential ectoenzyme SmNPP5 from the human intravascular parasite *Schistosoma mansoni* is an ADPase and a potent inhibitor of platelet aggregation. *Thromb. Haemost.*, 118(6):979-989, **2018**.
18. A comparative study on the anti-schistosomal and hepatoprotective effects of vinpocetine and isosorbide-5-mononitrate on *Schistosoma mansoni*-infected mice. *Acta Trop.*, 176(C):114-125, **2017**.
19. Clinical and laboratory findings in children infected with *Giardia lamblia*: A case control study. *Mans. J. Basic Med. Sci.*, 6, no. 9001257, July, **2017**.
20. *In vitro* screening of BTP-Iso on *Schistosoma mansoni* and its intermediate host *Biomphalaria alexandrina*. *Asian Pac. J. Trop. Dis.*, 6(12): 946-951, **2016**.
21. Spotlight on the *in vitro* effect of artemisinin-naphthoquine phosphate on *Schistosoma mansoni* and its snail host *Biomphalaria alexandrina*. *Acta Trop.*, 141(A): 37-45, **2015**.
22. Evaluation of the *in vivo* effect of ivermectin on *Schistosoma mansoni* in experimentally-infected mice. *J. Coastal Life Med.*, 2(10):817-823, **2014**.
23. The hepatoprotective effect of nitric oxide on murine schistosomiasis *mansoni*. *Mans. Med. J.*, 43 (1-2):135-153, **2014**.
24. Identification and Characterization of a glycoprotein with protease-like activity from *Schistosoma mansoni* cercariae. *PUJ*, 6(2): 157-164, **2013**.

25. Effect of a novel benzimidazole derivative in experimental *Schistosoma mansoni* infection. Parasitol. Res., 112(12):4221-4229, **2013**.
26. *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**.
27. El-Malky M.A., Maruyama H., Al-Harhi S.A., **El-Beshbishi S.N.**, Ohta N. The role of B-cells in immunity against adult *Strongyloides venezuelensis*. Parasites & Vectors, 6:148, **2013**.
28. 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**.
29. Effect of Mirazid in *Schistosoma japonicum*-infected mice: parasitological and pathological assessment. Parasitol. Res., 112(1):373-377, **2013**.
30. Impact of *Schistosoma mansoni* co-infection with chronic hepatitis C on serum levels of interleukin-10, oxidative stress and anti-oxidant profile. World Res. J. Crit. Care, 1.1:1-5, **2013**.
31. Parasitic infections and myositis. Parasitol. Res., 110(1):1-18, **2012**.
32. Proteomic profiles characteristics of *Schistosoma mansoni* infection in patients from two different endemic areas. PUJ, 4(1): 77-88, **2011**.
33. Increased *Helicobacter pylori*-associated pathology in outbred mice coinfecting with schistosomiasis. Parasitol. Res., 105(2):297-299, **2009**.
34. Hyperbilirubinemia and transcutaneous bilirubinometry. Clin. Chem., 55(7):1280-1287, **2009**.
35. Past and present situation of human fascioliasis in Dakahlia Governorate, Egypt. J. Egypt. Soc. Parasitol., 39 (1): 247-262, **2009**.
36. Soil parasites particularly *Toxocara* eggs in Egypt. J. Egypt. Soc. Parasitol., 39 (1): 151-162, **2009**.
37. Hepatic hydatid disease: four case reports. Cases J., 2(1):58, **2009**.
38. Gastrointestinal injuries in *Helicobacter pylori* infected patients with concurrent schistosomiasis or fascioliasis. Egypt. J. Med. Sci., 29(2):593-603, **2008**.
39. Biochemical parameters in chronic fascioliasis. J. Egypt. Soc. Parasitol., 38 (3): 977-990, **2008**.
40. Kinetics of eosinophilia and IgE production in experimental murine toxocariasis. J. Egypt. Soc. Parasitol., 38 (1): 53-64, **2008**.
41. Fit-for-purpose Evaluation Of Architect™ I1000SR Immunoassay Analyzer: M129. Clin. Chem. Lab. Med., 46: S284-S285, **2008**.
42. Diagnostic criteria for house dust mites-sensitized allergic patients. J. Egypt. Soc. Parasitol., 37 (suppl. 3): s1113-s1124, **2007**.
43. Ultrastructural characteristics of *Besnoitia darlingi* tachyzoites Brumpt, 1913 (Protozoa: Sarcocystidae) of the Michigan strain MIBD1. J. Egypt. Soc. Parasitol., 37(3): 989-997, **2007**.
44. Comparative study between immunohistochemical grading and *Giardia* genotyping among symptomatic and asymptomatic humans. Egypt. J. Immunol., 14 (2): 63-72, **2007**.
45. T-Lymphocytes activation and expression of costimulatory molecules in human toxoplasmosis during pregnancy. Benha Med. J., 24(1): 479-489, **2007**.

46. Present situation of house dust mites in Dakahlia Governorate, Egypt. J. Egypt. Soc. Parasitol., 36 (1):113-126, **2006**.
47. Geoparasites in rural Dakahlia Governorate, a preliminary based study for development of the community-based intervention programs. J. Egypt. Soc. Parasitol., 35 (3):1051-1070, **2005**.
48. Some molecular aspects in schistosomiasis mansoni and toxoplasmosis. J. Egypt. Soc. Parasitol., 35 (3):795-808, **2005**.
49. *Blastocystis hominis* among symptomatic and asymptomatic individuals in Talkha center, Dakahlia Governorate, Egypt. J. Egypt. Soc. Parasitol., 35 (2):653-666, **2005**.
50. Human fascioliasis and anaemia in Dakahlia Governorate. J. Egypt. Soc. Parasitol., 35 (2):421-432, **2005**.

Thesis/Essays supervision:

-M.Sc.

1. Seroprevalence of *Toxoplasma gondii* Infection among Children with Brain neoplasms (**Main supervisor**).
2. Toxoplasmosis among Children with Central Nervous System Disabilities (**Main supervisor**).
3. Molecular-Based Approaches for Diagnosis of Some Human Parasitic Infections.
4. Laboratory Techniques for Diagnosis of Human Parasitic infections: Update.
5. Role of Parasitic Infections in Myositis.
6. Endoscopic and Surgical Interference in Diagnosis of Parasitic Infections.
7. Human Dermatological Changes Caused by Arthropods.

-Ph.D.

1. Influence of Chronic Toxoplasmosis on Gonadotropic-Gonadal Axis in Male rats (**Main supervisor**).
2. Characterization of Schistosome Host-Interactive Tegumental Proteins (**Main supervisor**, Joint supervision with Prof. Patrick Skelly, Associate Chair of Molecular Helminthology Laboratory, Department of Infectious Disease and Global Health, Cummings School of Veterinary Medicine, Tufts University, U. S. A.)
3. Human Leukocyte Antigen Class II Alleles in Children with Giardiasis (**Main supervisor**).
4. Induced Resistance to Reinfection in Experimental Egyptian Schistosomiasis Mansoni by Artemether and Omega-3.
5. Effect of Vinpocetine and Isosorbide Mononitrate on Experimental Schistosomiasis Mansoni.
6. Serum Oxidative Stress and Anti-Oxidant Levels in Human Schistosomiasis Mansoni.

Attended workshops:

1. Methods of measurement, evaluation and preparation of the test item - the health sector. Online, **October 13-14, 2020**.
2. Capacity Building on HINARI Access to Research for Health Program: 2nd Sub-Regional Training Workshop, "Training of Trainers". Cairo, Egypt, **April 22-26, 2018**.
3. Sequence to Phylogeny. Kasr Al-Ainy Faculty of Medicine, Cairo University, Egypt, **November 30, 2014**.

4. PCR Primers Design. Kasr Al-Ainy Faculty of Medicine, Cairo University, Egypt, **November 29, 2014.**
5. Apoptosis assay methods. Faculty of Medicine, Mansoura University, Egypt, **February 27-28, 2014.**
6. Teaching and training by problem based learning method. Faculty of Medicine, Mansoura University, Egypt, **September 2-5, 2013.**
7. Mansoura University Regenerative Medicine Program (MURMP): From Bench to Beside. Faculty of Medicine, Mansoura University, Egypt, **November 27-28, 2012.**
8. Methods of Isolating and Characterizing stem cells. Faculty of Medicine, Mansoura University, Egypt, **October 9-12, 2011.**
9. Basics and Applications of High Performance Liquid Chromatography (HPLC) and Gas Chromatography (GC) in Medical Biochemistry. Medical Research Institute, Alexandria University, Egypt, **April 12-15, 2010.**
10. Intended Learning Outcomes Compared to Course Description. Faculty of Medicine, Mansoura University, Egypt, **April 3, 2010.**
11. Basic Techniques in Cell Culture. Medical Research Institute, Alexandria University, Egypt, **February 21-23, 2010.**
12. Molecular Biology Techniques. Faculty of Medicine, Mansoura University, Egypt, **April 23, 2009.**
13. Laboratory Performance and Quality Assurance. Medical Research Institute, Alexandria University, Egypt, **February 19-21, 2009.**
14. Applications of High Performance Liquid Chromatography. Faculty of Medicine, Mansoura University, Egypt, **February 17, 2009.**
15. Basic mouse handling and techniques training. University of Texas Medical Branch, Galveston, Texas-U.S.A., **August 21, 2008.**
16. Biological hazards and laboratory safety rules course. UTMB, Galveston, Texas-U.S.A., **April, 2008.**
17. Completed 31contact hours of instructions on the Abbott Architect ci8200 training. Abbott training center, Dallas, Texas-U.S.A., **November 5-9, 2007.**
18. PCR: Hand Practice. Faculty of Medicine, Mansoura University, Egypt, **May 2-3, 2006.**
19. Cell & immune therapy. Urology & Nephrology Center, Mansoura, Egypt, **April 16-27, 2006.**
20. Advances in immune & cell therapy. Urology & Nephrology Center, Mansoura, Egypt, **March 5-17, 2005.**
21. Molecular biology training laboratory introductory course. UTMB, Galveston, Texas-U.S.A., **November 1-30, 2001.**
22. Biological hazards and laboratory safety rules course. UTMB, Galveston, Texas-U.S.A., **July, 2001.**

Other scientific activities:

A- Invited reviewer for:

1. Journal of Tropical Medicine, since **January 2021.**
2. Frontiers in Medicine, since **January 2021.**
3. Frontiers in Microbiology, since **November 2020.**
4. All Life, since **October 2020.**

5. Microbes and Infectious Diseases, since **June 2020**.
6. Infection and Drug Resistance, since **June 2020**.
7. Parasite & Vectors, since **February 2020**.
8. Scientific Reports, since **November 2019**.
9. Infectious Diseases of Poverty, since **April 2019**.
10. Parasitologists United Journal, since **March 2019**.
11. Medicinal Chemistry, since **February 2019**.
12. The Pediatric Infectious Disease, since **June 2018**.
13. Journal of Asian Natural Products Research, since **May 2018**.
14. Acta Tropica, since **February 2018**.
15. Journal of Helminthology, since **January 2018**.
16. Tropical Biomedicine, since **September 2017**
17. Journal of Clinical and Diagnostic research, since **September 2017**.
18. Journal of Herbal Medicine, since **July 2017**.
19. Mansoura Medical Journal, since **June 2017**.
20. Frontiers in Immunology, since **May 2017**.
21. Infection, Genetics and Evolution, since **May 2016**.
22. International Journal of Tropical Biology and Conservation "Revista de Biología Tropical", since **November 2015**.
23. African Journal of Biotechnology, since **February 2015**.
24. Journal of Infectious Diseases & Therapy, since **November 2014**.
25. Journal of Pharmacovigilance, since **November 2014**.
26. Medicine and Medical Sciences Journal, since **August 2014**.
27. Journal of the Sao Paulo Institute of Tropical Medicine, since **June 2014**.
28. Journal of Advanced Research, since **April 2014**.
29. Journal of Cell and Animal Biology, since **January 2014**.
30. Experimental Parasitology Journal, since **November 2013**.
31. Sky Journal for Agricultural Research, since **November 2013**.
32. Journal of Bacteriology and Parasitology, since **October 2013**.
33. Acta Parasitologica Journal, since **September 2013**.
34. African Journal of Pharmacy and Pharmacology, since **August 2013**.
35. Medical Sciences Journal, since **July 2013**.
36. Parasite Journal, since **June 2013**.
37. Asian Pacific Journal of Tropical Disease (APJTD), since **May 2013**.
38. Molecules Journal, since **April 2012**.
39. African Journal of Microbiology Research, since **October 2011**.

B- Teaching experience:

- Courses developed:

- Medical Parasitology course for undergraduate medical students of both Conventional Program and New Medical Education Program.
- Advanced Medical Helminthology and Malacology, Advanced Medical Protozoology and Entomology, Immunology of Parasitic diseases, Advanced Immunology of Parasitic diseases and Histopathology of Parasites courses for doctoral graduate students of Medical Parasitology.

-Courses taught:

- Medical Parasitology course for under graduate students (3rd year Conventional Medical Program, New Medical Education Program and Manchester Medical Program/E-Learning).
- Medical Parasitology, Immunoparasitology and Molecular Parasitology for graduate students of Clinical Pathology, Medical Microbiology, Medical Biochemistry and Molecular Biology, Public Health and Community Medicine, and Tropical Medicine.
- Medical Parasitology and Immunology of Parasitic Diseases (Basic and advanced) courses for graduate students of Medical Parasitology.

C- Member of:

- Scientific committee of Medical Parasitology (9 members) for the promotion to the position of Associate Professor and Professors as assigned from Supreme Council of Egyptian Universities (SCEU), since **August 2019**.
- Graduate studies and researches committee, Faculty of Medicine, Mansoura University, since **November 2017**.
- Libraries committee, Faculty of Medicine, Mansoura University, **October 2015- 2018**.
- Quality committee for graduate studies of Medical Parasitology Department, since **July 2014**.
- Editorial board of:
 - Microbes and Infectious Diseases, since **May 2020**.
 - Parasitologists United Journal, since **January 2020**.
 - International Journal of Tropical Diseases, since **February 2019**.
 - International Journal of Medicine and Medical Sciences, since **November 2011**.
- Scientific committee of the conferences of the Egyptian Parasitologists United Society, since **2012**.
- Scientific committee of the Society for the Advancement of Science in Africa (SASA), **June 2012**.
- Egyptian Parasitologists United Society, Egypt, since **2009**.
- American Society of Parasitologists, Lincoln, NE-U.S.A., since **2006**.
- Egyptian Society of Parasitologists, Egypt, since **1996**.
- Egyptian Medical Syndicate, since **1992**.

D- Invited speaker:

1. Impact of the antimalarial artemisinin-naphthoquine phosphate on *Schistosoma haematobium* adult worms: viability and tegumental alterations. The 5th conference of the Egyptian Parasitologists United Society. Cairo, Egypt, **March 24-25, 2018**.
2. Identification of the antimalarial artemisinin-naphthoquine phosphate as effective therapeutic combination against *Schistosoma haematobium*. International Conference on Parasitology, Philadelphia, USA, **August 24-26, 2015**.
3. Spotlight on the *in vitro* effect of artemisinin-naphthoquine phosphate on *Schistosoma mansoni* and its snail host *Biomphalaria alexandrina*. The 4th annual conference of the Egyptian Parasitologists United Society. Cairo, Egypt, **November 15-16, 2014**.
4. Identification and characterization of a glycoprotein with protease-like activity from the invasive stage of *Schistosoma mansoni*. The 3rd annual conference of the Egyptian

Parasitologists United Society In Association With INSTAND/WHO. Cairo, Egypt, **October 10-11, 2012.**

5. Mechanism of Immune Modulation by Helminthes in Auto-Immune Diseases. The 6th annual conference of Internal Medicine Department, Specialized Medical Hospital, Mansoura Faculty of Medicine. Mansoura-Port Said, Egypt, **April 28-29, 2011.**

E- External evaluator for:

-Higher Diploma of Laboratory Diagnosis of Tropical Medicine, Faculty of Medicine, Umm Al-Qura University, KSA (**2019**).

-Research projects and university encouragement prizes, Faculty of Medicine, South Valley University, since **January 2019**.

-Scientific publications for the promotion to the position of Associate Professor and Professors:

- College of Medicine, Taibah University, Madinah, Saudi Arabia (**2019**).
- College of Medicine, Babylon University, Iraq (**2018**).
- Faculty of Medicine, Al-Azhar Universities (**2017**).

F- Research developer for Medical Parasitology Department, Faculty of Medicine, Mansoura University, as assigned from the University President, since **December 2016.**

Awards:

1. Scientific publication awards of Mansoura University for the academic year **2019** for 4 papers.
2. Scientific publication awards of Mansoura University for the academic year **2018** for 5 papers.
3. Certificate of outstanding contribution in reviewing awarded by Elsevier in **June 2018** in recognition of the contributions made to the quality of the Acta Tropica Journal.
4. Scientific publication awards of Mansoura University for the academic year **2017** for one paper.
5. Scientific publication awards of Mansoura University for the academic year **2015** for one paper.
3. Scientific publications award of Mansoura University for the academic year **2013** for 2 papers.
4. Oral presentation of distinction for the 3rd annual conference of the Egyptian Parasitologists United Society In Association With INSTAND/WHO, **2012.**
5. Outstanding completion of academic fellowship in the field of Parasitology (Pathology), University of Texas Medical Branch (UTMB), Galveston, Texas-U.S.A., **2003.**
7. Scholarship from the Egyptian Government, **2001-2003.**