



Parasitology Lab.,
Zoology Department,
Faculty of Science



Assiut University, Assiut,
Egypt

SARA SALAH ABD-ELHAKEEM

Senior lecturer, PhD

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Place and date of Birth

2nd City st. Awel Assiut, Assiut, Egypt. (28/4/1986)

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Nationality

Egyptian

Curriculum Vitae

Academic education

2007 B. Sc (Zoology), Zoology Department, Faculty of Science, Assiut University, Assiut, Egypt (with high marks).

2009 Diploma in Science (Fish Biology), Zoology Department, Faculty of Science, Assiut University, Egypt (excellent).

2012 M.Sc. (Zoology, Fish Biology), Department of Zoology, Faculty of Science, Assiut University, Egypt.

2017 Ph.D (Zoology, Parasitology), Department of Zoology, Faculty of Science, Assiut University, Egypt.

Related Work Experience

2007- 2012 Demonstrator, Zoology Department, Faculty of Science, Assiut University, Egypt.

2012- 2017 Assistant lecturer, Department of Zoology, Faculty of Science, Assiut University, Egypt

2007- 2009 Member of Developmental Educational Museum of Egypt Fauna Project.

2008-2010 Member of Quality Assurance and Accreditation Unit (QAAU) at the Faculty of Science, Assiut University

2017- till now Lecturer of Parasitology, Department of Zoology, Faculty of Science, Assiut University, Egypt

Skills

Language skills:

| | |
|---------|-----------------------|
| Arabic | native language |
| English | good knowledge |
| Germany | Dutsch (Grundstufe I) |

Computer Skills:

- ICDL/ECDL Certified ((2008) ICDL/ECDL (International/European Computer Driving License) certificate.
- (2006) attended at introduction to Windows 98 & Word 2000.

Parasitological skills: parasitology lab. Works, P. M. examination, Worm recovery, Identification, Morphological studies, Molecular biology and Pathology.

Teaching Record, Memberships and Journal Reviwer

Teaching Record

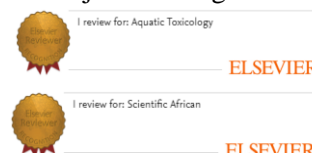
1. Instructor for undergraduate students (faculties of; Science, Vertinary Medicine, Pharmacy, Education, and Agriculture) since 2007- 2017 the following practical Courses (Parasitology, Cell Biology, Cytology, Histology, Taxonomy of Invertebrates, Taxonomy of vertebrates, and Fish Biology).
2. Teaching the undergratude students (Faculties of; Science, Education, Dental) since 2012 the following theoretical courses (General Zoology, Parasitology, Chordates, Fish Biology and Evaluation).
3. Teaching the undergraduated students, Faculty of Science (credit hour, Zoology and micrbiology) theoritcal courses of parasitology (Protozology and helminthology).
4. Teaching the undergraduated students, Faculty of Education (1st year and 4th year) theoritcal courses, taxonomy of invertebrates and parasitology.
5. Co-teaching of postgraduate students for master and doctor degree of Parasitology since 2017
6. Supervisor on graduate project of students (Zoology and Zoo-chemistry) from 2018 until now.
7. Contribute in the group of oral and final exams of students in different grads.
8. Member of control room group for final results.

Memberships

- 1- Member of Egyptian-German Society of Zoology.
- 2- Member of Egyptian Society of Analytical Chemistry.
- 3- Member of Women society for the development of environment and community service, Assiut University, Egypt.
- 4- Member of Assiut Alliance for Women.
- 5- Member of the Quality Management Board (QAAU) in the Faculty of Science, Assiut University.

Journal Reviewer

1. Journal of Toxicology and Environmental Health Sciences (www.academicjournals.org/JTEHS)
2. Journal of Aquatic toxicology
3. Scientific Africa journal



Journal Editor

1. Editor member board at **Madridge Journal of Clinical Research (MJCR)** (https://madridge.org/editorial_board_member/Sara-Salah-Abdel-Hakeem)
2. Editor member board at **Veterinary science research and medical diagnosis** (<https://www.scholarsliterature.com/journals/veterinary-science-research-and-medical-diagnosis/editorial-board>)
3. Advisory member board at **Egyptian academy journal of biological science (Zoology)** (<http://zoology.eajbs.eg.net/editorial.html>)

Research and Publications

Research Statement

The main topic of my research interest is the study of parasites (protozoa and helminthes), their life cycle, immune-parasitology and parasite-host interaction. The main biological scope is the medical and veterinary parasitology and the response generated by immune system of the host against them with a trend to treatment and finally their prevention and control. My master thesis was entitled "The biological effect of herbicide atrazine on the early embryonic stages of African catfish, *Clarias gariepinus* (Burchell, 1822). **And** my Ph.D. Thesis entitled "Evaluation of immunoparasitological and protective effect of different types of Schistosoma antigens using bioassay and verminous immune-cytopathology in white mice"

Publications

1. Alaa El-Din H. Sayed, Hanem Abdel-Tawab, **Sara S. Abdel Hakeem**, Imam Mekkawy (2013): The Protective Role of Quince Leaf Extract against the Adverse Impacts of Ultraviolet-A Radiation on Some Tissues of *Clarias gariepinus* (Burchell, 1822). Journal of Photochemistry and Photobiology B: Biology, 119,9-14.

2. Alaa El-Din H. Sayed, **Sara S. Abdel Hakeem**, Usama M. Mahmoud, Imam A. Mekkawy (2012): 4-Nonylphenol induced morphological and histopathological malformations in Egyptian toad tadpoles. *Global Advanced Research Journal of Environmental Science and Toxicology*, 1(6): 143-151.
3. Mahmoud Abdel- Zaher, Gamal H. Abed, **Sara S. Abdel Hakeem** (2016): Ultrastructural changes of *Schistosoma mansoni* worms with administration of its polyvalent vaccine. *The journal of Zoology studies*, 3(6): 1-12.
4. **Sara S. Abdel Hakeem**, Mahmoud Abdel- Zaher, Gamal H. Abed, (2016): Haematological parameters and cellular immune response associated with administration of polyvalent *Schistosoma mansoni* vaccine in mice. *International journal of Science and research*, 5(12): 1548-1555.
5. Imam A.A. Mekkawy, U.M. Mahmoud and **Sara Salah Abdel-Hakeem** (2017): Atrazine-induced Changes in some Biochemical Parameters of the Early Developmental Stages of the African Catfish *Clarias gariepinus* (Burchell, 1822). *American Journal of Biochemistry and Molecular Biology*, 7(1): 21-40.
6. **Sara S. Abdel-Hakeem** and Mahmoud A. Abdel-Samiee (2018): Case Study: Dioctophyma renale Infection in Mice, Incidental Finding during experimental studies. *Egypt. Acad. J. Biolog. Sci.*, 10(1): 83- 91.
7. **Sara Salah Abdel-Hakeem**, Mahmoud Abdel-Zaher Abdel-Samiee, Gamal Hassan Abed and Nathalie Chacon Fonseca (2019): Prediction of Long-Term Humoral and Cellular Immune Response: A Comparison of Three *Schistosoma mansoni* Antigens. *Research and Reviews: Journal of Medicinal Chemistry*, 1 (1): 10-25.
8. Khaled A. S. El-Khabaz, **Sara S. Abdel-Hakeem**, Mohsen I. Arfa (2019): Protozoan and helminthes parasites endorsed by imported camels (*Camel dromedaries*) to Egypt. *J Parasit Dis*, 43 (4): 607-615. <https://doi.org/10.1007/s12639-019-01138-y>.
9. **Sara Abdel-Hakeem**, Soha A. Soliman, Hanan H. Abdel-Hafeez, Enas Abdel-Hafez and Rania S. Zaki (2019): Occurrence of Metacercarial Cyst of *Ascocotyle* (*Ascocotyle* Sp.) in the Gills of Ruby-Red-Fin Shark (Rainbow Shark) *Epalzeorhynchus frenatum* (Teleostei: Cyprinidae): Light Microscopic Study. *EC clinical and experimental anatomy*, 2 (7): 296-304.
10. **Sara S. Abdel-Hakeem**, Ghada Abd-Elmonsef Mahmoud and Hanan H. Abdel-Hafeez (2019): Evaluation and microanalysis of parasitic and bacterial agents of Egyptian fresh sushi, *Salmo salar*, *Microscopy and Microanalysis*, 1-11. <https://doi:10.1017/S143192761901506X>.

11. **Abdel Al-Hakeem, S. S.**, & Omar, M. (2020). Ovine fascioliasis: environmental epidemiology and meta-analysis of the prevalence, Agro-ecological and economic factors in five provinces of the Nile Delta region of Egypt. *Damanhour Journal of Veterinary Sciences*, 3(1), 23-31.
12. **Abdel-Hakeem, S. S.**, Abdel-Samiee, M. A., & Abed, G. H. (2020). An Insight into the Potential Parasitological Effect of *Schistosoma mansoni* Antigens in Infected Mice: Prophylactic Role of Cercarial Antigen. *Microscopy and Microanalysis*, 1-9.
13. Mahmoud, G. A. E., Osman, Y. A., and **Abdel-Hakeem, S. S.** (2020). Hydrolytic bacteria associated with natural helminth infection in the midgut of Red Sea marbled spinefoot rabbit fish *Siganus rivulatus*. *Microbial Pathogenesis*, 104404.

Books:

1. The biological effect of atrazine on the embryos of *Clarias gariepinus*”, authored by **Sara Abdel-Hakeem**. The book was released by Lambert Academic Publishing in June, 2018 and bears ISBN 978-613-9-85396-0.

Workshops, Scientific Visits and Additional Skills

Workshops:

1. (2006) attended at Scanning, Transmission, Electron Microscope Usage and Slides Preparation Workshop, undergraduate training (3 weeks).
2. (1-21/7/2006), attended at Scanning, Transmission, Electron Microscope Usage and Slides Preparation (undergraduate training) (3 weeks).
3. (6/4-10/4/2008) attended the workshop on Methods in Molecular Biology and its Applications in the Monitoring of the Environmental stress and Ecotoxicology, Zoology Department, Faculty of Science, Assiut University, Assiut, Egypt.
4. (31/3-1/4/2009) attended the workshop on principles of protein analysis, the Molecular Biology Research Unit of Assiut University, Egypt.
5. (8/11-10/11/2009) attended the workshop on PCR principals and Applications (Level 1), the Molecular Biology Research Unit of Assiut University, Egypt.
6. (26th March 2009) attended the training course to enhance the Egyptian Participation in the Seventh Framework program of the Scientific Research, financed by the European Union, Food Technology Center- Project of MEDA GO TO EUROUB.
7. (13/10-14/10/2010) attended the workshop on Means safety and safety in laboratories, Faculty of Science, Assiut University, Assiut, Egypt.
8. (24/10-25/10/2010) attended the workshop on protein analysis and applications, the Molecular Biology Research Unit of Assiut University, Egypt.

9. (29th September 2014) attended the workshop on: How to cope with the scientific literature?, the Multidisciplinary Research Center Of Exchange.
10. (21/3-25/3/2015) attended a completed training course in Electron Microscopy (Techniques and Interpretation, Electron Microscope Unit (EMU), Assiut, Egypt.
11. (29/5-31/5/2016) attend the training course of " Applications of Molecular Markers in Biology" in Molecular biology laboratory at Faculty of Agriculture, Assiut University.
12. (13/9-14/9/2017) attended and participated in the workshop titled "From RNA extraction to Real Time PCR and data analysis" at Medical Research center, Faculty of Medicine, Assiut University, Egypt.
13. (26/11-27/11/2017) training program on "How to design the electronic courses" (15 hours) at faculty and leadership development center, Assiut University.
14. (12/11-13/11/2017) training program on "E- learning (advanced)" (15 hours) at faculty and leadership development center, Assiut University.
15. (12/12-13/12/2017) training program on "Strategic planning" (15 hours) at faculty and leadership development center, Assiut University.
16. (19/12-20/12/2017) training program on "Statistical analysis in Scientific research" (15 hours) at faculty and leadership development center, Assiut University.
17. (20/1-21/1/2017) training program on "analysis and creative thinking in teaching" (15 hours) at faculty and leadership development center, Assiut University.
18. (23-10-2019) Module in cell press excellence in publishing: discover, network and practice- Webiner at Assiut University.
19. (27-10-2019) Module in "How to review a manuscript" on researchacademy.com.

Research Expereince, Conferences/Presentations

Research Expereince

Parasitology techniques (blood and fecal examination)

Electrone Microscope

Electrophoresis (SDS–PAGE) technique.

Histology and Immunohistochemistry for tissues microscopic preparations.

ELISA (Enzyme Linked Immuno-Sorbant Assay)

PCR (Plymerase Chain Reaction) and RAPID-PCR

Some related physiological and biochemical parameters analysis

Conferences/Presentations

(4th-5th March, 2009) attended the First International Conference of Biological Sciences, Assiut University, Assiut, Egypt.

(19th-20th April, 2011) attended The Third Conference For Young Researchers, Basic Science & Technology, Assiut university, Assiut, Egypt.

May I suggest the following as referees:

Prof. Dr/ Mahmoud Abdel-Zaher
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Assistant professor, Department of
Anatomy, Embryology and Histology
Faculty of Veterinary Medicine, Assiut
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