

CURRICULUM VITAE

*Dr. Khalifa El Sayed Khalifa
Professor of Parasitology
Faculty of Medicine, Ain Shams University
Cairo, Egypt*

PERSONAL DATA:

Name: Khalifa El Sayed Khalifa Mohamed
Date and Place of birth: 5/10/1959, Cairo, Egypt.
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EDUCATIONAL BACKGROUND:

- M.B, B.Ch. December, 1983, Faculty of Medicine, Ain Shams University, very good with honor
- M.Sc. Medical Parasitology, November, 1988, Faculty of Medicine, Ain Shams University, very good with a thesis titled “ Role of BCG as an immunostimulant against infection of mice with *Toxoplasma gondii*”
- M.D. Medical Parasitology, November, 1994, Faculty of Medicine, Ain Shams University, with a thesis titled “Detection of circulating antigen by ELISA and parasite DNA by PCR for the diagnosis of toxoplasmosis”

PROFESSIONAL POSITIONS:

- **House officer:** Ain Shams University Hospitals, from 1/3/1984 to 29/2/1985
- **School Health Officer:** in a School Health Unit, Cairo from 1/3/1985 to 30/4/1986
- **Demonstrator of Medical Parasitology:** Faculty of Medicine, Ain Shams University from 4/5/1986 to 4/3/1989.
- **Assistant Lecturer of Medical Parasitology:** Faculty of Medicine, Ain Shams University, from 5/3/1989 to 28/2/1995.
- **Guest Investigator:** USA Naval Medical Research Unit, NAMRU#3, Cairo, Egypt, from 25/8/91 to 25/1/1992.
- **Research Fellow:** Clinical Parasitology Department, Robert Koch Institute, Berlin Germany, from 1/4/1992 to 31/3/1994.

- **Lecturer of Medical Parasitology:** Faculty of Medicine, Ain Shams University from 29/2/1995 to 30/7/2000.
- **Assistant Professor of Medical Parasitology:** Faculty of Medicine, Ain Shams University, from 31/7/2000 till 21/8/2005
- **Professor of Medical Parasitology:** Faculty of Medicine, Ain Shams University, from 22/8/2005 till now.
- **Head of the Laboratory Department:** Faculty of Health Sciences, Al Ahsaa, Kingdom of Saudi Arabia, from 1999 till 2006.
- **Head of the Parasitology Diagnostic Unit:** Faculty of Medicine Ain Shams University from 13/12/2007-12/12/2011
- **Head of the information and communication technology project (ICTP),** Faculty of Medicine Ain Shams University from September, 2013

TEACHING AND PROFESSIONAL EXPERIENCES

- Teaching of Medical Parasitology for third year students, Faculty of Medicine, Ain Shams University.
- Teaching of Medical Parasitology for second year students, Faculty of Pharmacy, Ain Shams University.
- Teaching of Medical Parasitology for postgraduate students (Diploma, M.Sc. and Ph.D.), Faculty of Medicine, Ain Shams University.
- Teaching of Parasitology and Microbiology for the students of Faculty of Health Sciences, Al Ahsaa, Kingdom of Saudi Arabia (Nursing, Laboratory, Pharmacy and OR departments)
- Diagnosis of parasitic diseases by parasitological, immunological and biological assays as IHA, IFAT, ELISA, Immunoblot, tissue culture and PCR.

MEMBERSHIP IN TECHNICAL AND SCIENTIFIC COMMITTEE

- Member of the judgment committee for the promotion of professors and assistant professor in the Egyptian Universities "Parasitology-10th round"

SUPERVISION OF SCIENTIFIC THESIS:

- Cryptosporidiosis among children with summer diarrhea (M.Sc. thesis, Pediatrics, Faculty of Medicine, Ain Shams University).
- Study on dysovulation in chronic toxoplasmosis in mice (M.Sc. Thesis, Obstetrics and Gynecology, Faculty of Medicine, Ain Shams University, Co-supervisor).
- Evaluation of Fast-ELISA for the diagnosis of experimental trichinosis. (M. Sc. Thesis, Medical Parasitology, Faculty of Medicine, Ain Shams University, Co-supervisor).
- Cytokines production by peripheral mononuclear cells of schistosomiasis patients (M.Sc. thesis, Biochemistry, Faculty of Science, Ain Shams University).
- Diagnosis of trichomoniasis by detection of antigens in vaginal discharge (M.D. thesis, Medical Parasitology, Faculty of Medicine, Ain Shams University).
- Protective effect of some parasite antigen against development of murine asthma (M.Sc. thesis, Medical Parasitology, Faculty of Medicine, Ain Shams University).
- Comparative evaluation of multiplex Real-time PCR, copro-antigen assays and microscopy for the diagnosis of *Entamoeba histolytica*, *Giardia intestinalis* and *Cryptosporidium spp* infections (M.D. thesis Medical Parasitology, Faculty of Medicine Ain Shams University).

DISCUSSIONS OF THESIS:

- Discussion of PhD Thesis: "Specific HLA-DRB alleles among Yemeni patients with cystic hydatidosis" PhD Medical Parasitology Thesis, Faculty of Medicine, Suez Canal University, 2008.
- Discussion of PhD Thesis: "A Study on the effect of some medicinal herbs on *Giardia lamblia* and *Trichomonas vaginalis* infections in Egypt" PhD Medical Parasitology Thesis, Faculty of Medicine, Ain Shams University, 2009

PARTICIPATION IN SCIENTIFIC CONFERENCES:

1. Attending the 9th International Congress of Protozoology, held in Berlin, Germany on 31 July, 1993
2. Attending the 6th Annual Conference of the Egyptian Society of Laboratory Medicine, held in Cairo during the period from 3-5 January 1995.
3. Participation in the 18th Annual Conference of Ain Shams University, held in Cairo during the period from 13-16 March, 1995 by giving the following lectures:
 - **PCR applications in Parasitology**
 - **Evasion of Host's Immune response by parasites.**
4. Participation in the first Conference on Zoonotic Parasitosis, held in Cairo during the period from 20-23 November, 1995 by presenting the following research papers:
 - **A case of gastrointestinal myiasis caused by *Eristalis sp.***
 - **Problems confronted in the serodiagnosis of toxoplasmosis**
 - **Detection of *Toxoplasma gondii* circulating antigen and DNA in acute murine toxoplasmosis.**
5. Participation in the Scientific Regional Meeting of the Egyptian Chapter of the American College of Chest Physicians, held in Cairo during the period from 9-11 January, 1996 by giving the following lecture:
 - **Pulmonary toxoplasmosis- Recent trends in diagnosis**
6. Participation in the third Conference of the Egyptian Society For Tropical Medicine, Infectious and Parasitic Diseases, held in Cairo during the period from 16-18 January, 1996 by giving the following lecture:
 - **Problems confronted in the serodiagnosis of toxoplasmosis**
7. Participation in the 19th Annual Conference of Ain Shams University, held in Cairo, March, 1996 by giving the following lecture:
 - **Immunodiagnosis of parasitic infections**

8. Participation in the workshops of the Eye Institute during the years, 1995, 1996, 1997 by giving the following lectures:
 - **PCR applications in Parasitology**
 - **Evasion of hosts' immune response by parasites**
 - **Immunodiagnosis of parasitic infections**
 - **Role of Macrophage in controlling of parasitic infections**
9. Participation in the scientific meeting of the Faculty of Medicine, Cairo University, 1996 by giving the following lectures:
 - **PCR applications in Parasitology**
 - **Evasion of hosts' immune response by parasites**
10. Attending the scientific meeting of King Faisal University "Hospital infections" held in Al-Khobar, KSA during the period from 27 -28 March, 2002
11. Attending the meeting of King Faisal University "Trends in Microbiology" held Al-Khobar, KSA during the period from 24-25 March, 2004
12. Participating in the first annual conference of the Egyptian Parasitologists United "A step forward in the field of Parasitology, Education and Research" held in Cairo during the period from 28-29 March, 2009 by giving the following lecture:
 - **Immunomodulation by helminths**
13. Secretary General of the second annual conference of the Egyptian Parasitologists United "New developments in laboratory diagnosis of parasitic infection" held in Cairo during the period from 7-8 April, 2010
14. Participating in the XXII Annual Conference of the Egyptian Society of Laboratory Medicine, held in Cairo during the period from 8-11 March, 2011 by giving the following lecture:
 - **Quality assurance of laboratory tests for serodiagnosis of toxoplasmosis**
15. Secretary General of the third annual conference of the Egyptian Parasitologists United "Parasitology: Everlasting Development" held in Cairo during the period from 10-11 October, 2012.

SUPERVISION AND MEMBERSHIP IN SCIENTIFIC RESEARCH UNITS

1. Research and Diagnostic Unit of Parasitic Diseases, Faculty of Medicine, Ain Shams University.
2. Medical and Bilharzial Center, Faculty of Medicine, Ain Shams University.

MEMBERSHIP IN SCIENTIFIC SOCIETIES AND SCIENTIFIC BOARDS

1. Member of the Egyptian Society of Parasitology
2. Member of the German Society of Parasitology
3. Member of the Egyptian Society of Immunology
4. Member of the INSTAND Institute, Germany (Institute for documentation and Standardization, WHO, Collaborating Institute for Quality Control of Laboratory Medicine”
5. Member of the Egyptian Parasitologists United.
6. Member of the scientific board of the Parasitologists United Journal

RESEARCH PROJECTS

Molecular epidemiology of *Giardia duodenalis* infections; funded by the Science and Technology Developments funds (STDF), 2013. The project will be done in cooperation with Robert Koch Institute, Berlin, Germany within the framework of the German-Egyptian Scientific Projects (GESP).

MAILING ADDRESS

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List of Publications

1. Azab, M. E., Khalil, H. M., Khalil, N. M., Kamel, A. M., and **Khalifa, K. E.** (1989). Role of BCG as an immunostimulant against infection of mice with *Toxoplasma*. Ain Shams Medical Journal (Suppl.), 40: 711-716.
2. Roth, A., Roth, B., Hoeffken, G., Steuber, S., **Khalifa, K. E.**, and Janitschke, K. (1992). Application of the Polymerase Chain Reaction in the diagnosis of Pulmonary Toxoplasmosis in immunocompromised patients. Eur. J. Clin. Microbiol. Infect. Dis., 11:1177-1181
3. Janitschke, K., Hummel, M., Roth., A, Roth, B., and **Khalifa, K. E.** (1993). Problems in laboratory diagnosis of toxoplasmosis in a case of heart transplantation. Klin. Labor. 39: 581-586.
4. **Khalifa, K. E.**, Roth, A., Roth, B., Arasteh, K. N., and Janitschke, K. (1994). Value of PCR for evaluating occurrence of parasitemia in immunocompromised patients with cerebral and extracerebral toxoplasmosis. J. Clin. Microbiol., 32(11):2813-2819
5. Azab, M. E. and **Khalifa, K. E.** (1996). Review of problems confronted In the serodiagnosis of toxoplasmosis. Egypt. J. Lab. Med. 8 (3):707-728
6. Azab, M. E., Kamal, S. M. and **Khalifa, K. E.** (1997). Concomitant *Toxoplasma* and Cytomegalovirus infections in immunocompromised patients. Egypt. J. Immunol., 4(1):49-55.
7. **Khalifa, K. E.** and El-Gozy, B. M. R. (1997). A case of gastrointestinal myiasis caused by *Eristalis tenax*. Egypt. J. Med. Sci., 18(2):213-216
8. Azab, M. E., El Hoda, A. M. N., Abdel Hamid, M. Y. and **Khalifa, K. E.** (1997). Cost-effectiveness and validity of a commercially available enzyme linked immunosorbent assay for *Giardia lamblia* antigen in stool. Egypt. J. Med. Sci., 18 (2):471-482
9. Ibrahim, M. A. A. F., El-Ganzoury, M., **Khalifa, K. E.** and Gazala, W. (1997). Cryptosporidiosis among children presenting with summer diarrhoea. Egypt. J. Paediat., 14(4):81-594
10. El-Mossalami, M. K. and **Khalifa, K. E.** (1998). Seroprevalence of antitoxoplasma antibodies among sheep and swine slaughtered in Cairo abattoir. J. Egypt. Vet. Med. Ass., 58(3):381-389

11. **Khalifa, K. E.**, Abou Gamra, M., Abdel-Aziz, S. S. and El-Hoseiny, L. M. (1998). Bacillus Calmette Guerin adjuvant effect on vaccination of genetically-determined low responder mice against *Trichinella spiralis*. Egypt. J. Immunol., 5(2):115-126
12. El Zayyatt, E. A., **Khalifa, K. E.**, El Gindy, I. M. S., Awad, A. M. and Azab, M. E. (1998). Evaluation of specific immunoglobulin G avidity enzyme linked immunosorbent assay (IgG avidity ELISA) in diagnosis of early and chronic schistosomiasis mansoni. J. Egypt. Soc. Parasitol., 28(3):739-752.
13. **Khalifa, K. E.** (1999). Kinetics of circulating antigen and DNA detections in acute murine toxoplasmosis. Egypt. J. Immunol., 6(1):85-91.
14. Azab, M. E., Fikry, A. A., Abbas, M. M. S., **Khalifa, K. E.** and Tawfik, R. A. S. (1999). Evaluation of Fast-ELISA for the diagnosis of experimental trichinosis. J. Egypt. Soc. Parasitol., 29(1):247-259.
15. Azab, M. E., Fikry, M. F., Abdel Baki, M. H., Habib, F. S., **Khalifa, K. E.** and El Wakil, H. S. I. (1999). Standardization of an ELISA format for the detection of *Trichomonas vaginalis* Exo-antigens in vaginal discharge. Egypt. J. Immunol., 6(2):1-8 .
16. Azab, M. E., Fikry, M. F., Abdel Baki, M. H., Habib, F. S., **Khalifa, K. E.** and El Wakil, H. S. I. (1999). Diagnosis of trichomoniasis by detection of antigens in vaginal discharge. Egypt. J. Immunol., 6(2):9-15
17. Afifi, M. A., El-Hoseiny, L. M., Moustafa, M. A., Abou Gamra, M. M. and **Khalifa, K. E.** (1999). Reciprocal heterologous protection between *Trichinella spiralis* and *Toxoplasma gondii* concurrently present in experimental murine models. J. Egypt. Soc. Parasitol., 29(3):963-978
18. Kamal, S. M., Bianchi, L., Al Tawil, A., Koziel, M., **Khalifa, K. E.**, Peter, T. and Rasenack, J. W. (2001). Specific cellular immune response and cytokine patterns in patients coinfectd with hepatitis C virus and *Schistosoma mansoni*. J. Infect. Dis., 184:972-982.
19. Kamal, S. M., Rasenack, J. W., Bianchi, L., Al Tawil, A., **Khalifa, K. E.**, Peter, T., Mansour, H., Ezzat, W. and Koziel, M. (2001). Acute hepatitis C without and with schistosomiasis: Correlation with hepatitis C-specific CD4+ T-cell and cytokine response. Gastroenterology, 121(3):646-656
20. **Khalifa, K. E.**, Fouad, S. A., Mohamed, M. M., Moustafa, M. I., Karim, A. M. and El-Missiry, A. G. (2002). Vaccine candidate antigen Sm20.8:

Immunological studies by peripheral blood mononuclear cells from patients with schistosomiasis. Egypt. J. Immunol., 9(1):111-121

21. **Khalifa, K. E.**, Mohamed, A. A. and Abu Gamra, M. M. (2002). Growth kinetics of in vitro transformed *Leishmania major* promastigotes in different culture media. Egypt. J. Med. Sci., 23(1,2): 235-246
22. **Khalifa, K. E.**, El-Wakil, H. S. I., Abdel Baki, M. H. and Azab, M. E. (2004). Immunoblot analysis of *Trichomonas vaginalis* antigens recognized by rabbit hyperimmune serum raised against exoantigens. Parasitol. Res., 92(1):48-49
23. Kamal, S. M., Graham, C. S., He, Q, Bianchi, L., Rasenack, J. W., Al Tawil, A., **Khalifa, K. E.**, Massoud, M. M. and Koziel, M. (2004). Kinetics of intrahepatic hepatitis C virus-specific CD4+ T cell responses in HCV and *Schistosoma mansoni* coinfection: relation to progression of liver fibrosis. J. Infect. Dis., 189:1140-1150
24. **Khalifa, K. E.** (2004). Detection of anti-toxoplasma IgG and IgM antibodies by enzyme linked immunosorbent assay that uses whole formalin fixed trophozoites as an antigen: comparison with enzyme linked immunosorbent assay that uses soluble antigen and indirect fluorescent antibody test. The New Egyptian Journal of Medicine, 31(1):16-24
25. Massoud, A. M., Mahmoud, D. M., **Khalifa, K. E.** and Habib, F. E. (2004). Compatibility of *Biomphalaria alexandrina* snails to infection with *Schistosoma mansoni* after exposure to sublethal concentrations of Myrrh. J. Egypt. Soc. Parasitol., 34(3): 1021-1034.
26. El-Okbi, L. M., **Khalifa, K. E.**, El-Wakil, H. S., Mohamed, A. A., Abdel Hamid, D. M. and Tawfik, R. A. (2005). Characterization of specific *Trichomonas vaginalis* target antigens from different isolates by immunoblotting against hyperimmune rabbit serum. J. Egypt. Soc. Parasitol., 35(3): 891-898.
27. Kamal, S. M. and **Khalifa, K. E.** (2006). Immune modulation by helminthic infections: worms and viral infections. Parasite Immunol., 28: 483-496
28. Abou GAMRA, M. M., Elwakil, H. S., El Deeb, H. K., **Khalifa, K. E.** and Abd Elhafiz, H. E. (2011). The potential use of 29 KDa protein as a marker

of pathogenicity and diagnosis of symptomatic infections with *Blastocystis hominis*. Parasitol Res., 108:1139-1146.

29. **Khalifa E. Khalifa** (2011). Characteristics and consequences of immune response to Helminths. Parasitologists Unites Journal, 4(1):15-28.
30. Abel Mawala, M. M, **Khalifa, K. E.**, Sammour, S. A., and Nazeer, J. T. (2012) Evaluation of the Suppressive Effects of Helminthic Derived Products on the Development of Experimental Murine Asthma. Parasitologists Unites Journal, 5(1):35-40.
31. Nazeer, J. T., **Khalifa, K. E.**, von Thein, H., El-Sibae, M. M., Abdel Hamid, M. Y. Tawfik, R. A. S., Tannich. (2013). Use of multiplex real-time PCR for detection of common diarrhea causing protozoan parasites in Egypt. Parasitol Res., 112:595-601