

Curriculum Vitae

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Personal Data:

Name: Khaled Mahmood Al-Qaoud
Nationality: Jordanian
Date of Birth: Jan.01.1965
Place of Birth: Mafraq/ Jordan
Address: Department of Biological Sciences
Yarmouk University
Irbid-Jordan

Academic qualification:

Ph. D Immunology, Hamburg University, Bernhard-Nocht Institute for Tropical Medicine, Dep. of Immunology and diagnostic microbiology, Average: 1.1 (very good). April. 1995- Jan. 1999
M. Sc. Immunology, Yarmouk University, Irbid-Jordan.
Average: 86.2 % (Sep. 1988- Aug. 1990).
B. Sc. Medical Technology, Yarmouk University, Irbid, Jordan.
Average: 82.2 % (Sep. 1983- Aug. 1988).

Professional experience:

Chairman, Dept. of Biological Sciences, Yarmouk University, Sept. 2007-till present
Associate Prof. Department of biological sciences, Yarmouk University, since Oct. 2006
Assistant Prof. Department of biological sciences, Yarmouk University, since Sep. 1999-2006.
Medical Laboratory Technologist at the Islamic Hospital (Immunology Lab.), 1992-1994.
Medical Laboratory Technologist at Royal Military Hospitals (King Hussein Medical Center), 1991-1992.
Student Teaching Assistant: Yarmouk University, 1988-1990.

Teaching Experiences:

Public health and health education (B100), General Biology (B101), the biology of invertebrates (B212 and B215), Parasitology (B312), Immunology (B432), Advanced Immunology (B636), Animal cell culture (B619).

Thesis Title: M.Sc:

Immunological and histological changes in sheep challenged with *Echinococcus granulosus* protoscolices.

Thesis Title: Ph.D:

A mouse model for human filariasis: Analyses of the immune effector mechanisms against the infection of BALB/c mice with the filarial nematode *Litomosoides sigmodontis*.

Membership of Societies:

Member of the German Society for Immunology

Member of the administrative board of the Jordan Society for Medical Technology (July 2003-July 2005).

Member of the Administrative board of the Jordan Company for monoclonal Antibodies (MonoJo). Representative of the advisory board (Oct 2005-June 2006).

Member of the Molecular Pathology Group (MPG), Jordan Society for Pathology, Oct. 2006-till present.

Conferences and workshops:

- The 29th Congress of the German Society for Immunology in Hamburg, Sep.1996
- The 2nd meeting of the German Society for Public Health and Microbiology, Nov. 1996
- The 30th Congress of the German Society for Immunology in Wuerzburg, Germany, Sep.1997
- The third meeting of the German Society for Public Health and Microbiology, Nov. 1997
- The 2nd International Conference on Tropical Medicine, Liverpool, UK, Sep. 1998
- The 1st conference of biological science at the Yarmouk University between 2-3 Nov. 1999.
- The 2nd conference of biological science at the Yarmouk University between 11-13 Oct. 2000.
- Regional Workshop on PCR-based Technology: Uses and Applications. Yarmouk University, 7-12 September 2002
- The 4th conference of Biology (Biological Sciences and Society: Applications and Obstacles): Yarmouk Univ. 12-14/10/2004
- The 3d Conference in Medical and Biological Sciences. 20-22 April, 2004. Zarqa-Jordan
- The Ninth Annual Science Week of the Higher Council for Science and Technology: The role of biotechnology in development. 6-8.10.2003
- The Dead Sea conclave on HIV and Cancer vaccines. 16-19 Nov. 2005
- The 2nd conference of Medical technology sciences and their applications at the Zarqa University between 23-25. Apr. 2001.
- European Union Project (INCO-CT-2004-509102). The 2nd EchinoNet workshop. IRBID. 17-23. Mar. 2005.
- European Union Project (INCO-CT-2004-509102). The 3d EchinoNet workshop, Cairo, 9-12. March. 2006-03-25.

- The Arab Science and Technology Foundation (ASTF) conference entitled: The Research, Development and Innovation: Biotechnology in the Arab World, Amman-Jordan, March 3-5, 2008

Direct supervision of M.Sc. students:

Abdulfattah Nasrallah

Isolation and Testing of Camel Heavy Chain Antibodies Responsible for Protection of BALB/c mice against Salmonella typhimurium.

Hiba Shaqqour

Searching for Immunocytogenetic effect of Wet Cupping

Hamze Issa

Characterization of *Echinococcus granulosus* Strains Using Polymerase Chain Reaction (PCR) and Monoclonal Antibodies against the Second Subunit of Antigen B (EgAgB8/2)

Iqbal Qtananni

Thesis title: The ability of camel antibodies to protect against Salmonella infection in experimental model

Mariam Abdel Rahman Mansi

Thesis title: Production of monoclonal antibodies against a shared AgB/8 Peptide of *Echinococcus granulosus* strains for diagnostic purposes

Hanane Boutennoune

Thesis title: Immunization of BALB/c Mice with the Second Subunit of *Echinococcus granulosus* Antigen B (EgAgB/2) Gene; the Effect of Immunization Route.

Khadidja Attab

Thesis title: Study of Association Between Some Cytokine Gene Polymorphisms and Asthma in Jordanian Population.

Laili Taiseer Al-Quraan

Thesis title: Characterization of Cytokine and Antibody Immune response in Mice Immunized with *Echinococcus granulosus* Antigens Using Different Immunization Routes

Mohammad Ameen Al-Aghbar

Thesis title: Immune Response in Mice Genetically Immunized with the Second Subunit of *Echinococcus granulosus* Antigen B in Combination with Cytokine Genes.

Mariam Mohammad Al-Omari

Thesis title: Production of Monoclonal Antibodies Against the 8 kDa Subunit of *Echinococcus granulosus* Antigen B (EgAgB8/2) Using Genetic Immunization.

Coadvisor of M.Sc. students:

Sohaila S. Al-Qashi

Thesis title: The Immunocytogenetic Effects of Sex Hormones in Women Undergoing *In Vitro* Fertilization Treatment

Grants:

1. Monoclonal antibody production by genetic immunization: applications in the diagnosis of parasitic and microbial infections

Principal Investigator: Dr. Khaled M. Al-Qaoud Co-investigators: Prof. Sami K. Abdel-Hafez & Prof. Hanan Malkawi

Sponsored by: Higher Education Development Fund (World Bank), Yarmouk University & The Jordanian Pharmaceutical Manufacturing Ltd (JPM)

Budget: 161,000 USD, *Start:* Oct. 2004, *Period:* 2 Years

2. EchinoNet Project

European Union Project (INCO-CT-2004-509102)

Principal Investigator: Prof. Sami K. Abdel-Hafez Co-investigators: Dr. Khaled M. Al-Qaoud

Budget: 36,000 Euro, *Start:* July. 2003, *Period:* 3 Years

3. Environmental Lead Pollutants and the Risk of Developing Allergy and Asthma in Children

Principal Investigator: Dr. Khaled M. Al-Qaoud Co-investigator: Prof. Sami K. Abdel-Hafez

Sponsored by: International Development Research Center (IDRC)-Canada and The Council for Research, Yarmouk University

Budget: 4440 USD, *Start:* Jan.2003, *Period:* 2 Years

4. Towards A Protective Vaccination Against *Echinococcus granulosus*: Is The Induction of T helper Type 1 response A prerequisite

Principal Investigator: Dr. Khaled M. Al-Qaoud Co-investigator: Prof. Sami K. Abdel-Hafez

Sponsored by: Council for Research, Yarmouk University

Budget: 10388 USD, *Start:* Dec. 2001, *Period:* 2 Years

5. The Epidemiology of Parasites in Jordan

Principal Investigator: Prof. Sami K. Abdel-Hafez Co-investigator: Dr. Khaled M. Al-Qaoud

Sponsored by: Council for Research, Yarmouk University

Budget: 5000 USD, *Start:* Dec. 2001, *Period:* 2 Years

6. Immunomodulation and development of a protective vaccine Against *Echinococcus granulosus*

Principal Investigator: Dr. Khaled M. Al-Qaoud Co-investigator: Prof. Sami K. Abdel-Hafez

Sponsored by: Showman Foundation for Research Funding-Jordan

Budget: 7500 JD, *Start:* Oct .2003, *Period:* 2 Years

7. EchinoNet Project

European Union Project (INCO-CT-2004-509102)

Principal Investigator: Prof. Sami K. Abdel-Hafez *Co-investigators:* Dr. Khaled M. Al-Qaoud

Budget: 36,000 Euro, *Start:* July. 2003, *Period:* 3 Years

8. Testing for the Presence of Heavy Chain Antibodies in Urine of Arabian Camels

National Center of Biotechnology (NCB)

Principal Investigator: Dr. Khaled M. Al-Qaoud

Budget: 5,000 JD, *Start:* Jan. 2007, *Period:* 6 Months

9. Project Title: Production of monoclonal antibodies against AIDS and Tuberculosis

Sponsored by: the Jordanian Pharmaceutical Manufacturing Ltd (JPM)-Amman-Jordan

Principal Investigator: Dr. Khaled M. Al-Qaoud, *Budget:* 9000 JD

10. Production of Camel Heavy Chain Antibodies (Nanobodies) for Diagnosis of Human Cancers

Higher Council for Science and Technology (HCST)

Principal Investigator: Dr. Khaled M. Al-Qaoud

Budget: 60,000 JD, *Start:* Jan. 2009, *Period:* 2 Years

11. Production of human non-immunogenic camel anti-IgE nanobodies for asthma treatment purposes

Ministry of Higher Education and Scientific Research (MOHE)

Principal Investigator: Dr. Khaled M. Al-Qaoud

Budget: 120,000 JD, *Start:* May. 2009, *Period:* 2 Years

II. Services offered by the Research lab

1. Training program on; Hybridoma cell culture, antibody production, purification and characterization.
Technicians of the Jordan Company for Monoclonal Antibodies Production (MonoJo)-
from Dec 2005
2. Analysis of human Erythropoietin (hEPO) in biological products using the Polyacrylamide gel electrophoresis and Immunoblot
Middle East Pharmaceutical and Chemical Industries and Medical Appliances Co.
(mid PHARMA)
3. Training Program on Hydatid Disease; Epidemiology and Diagnosis. WHO (Dr. Al-Sarry from Iraq), October, 11-25. 2004

Publications:

Al-Qaoud KM, Al-Omari MM, Al-Aghbar MA, Abdel-Hafez SK (2008). Production of monoclonal antibodies against the 8 kDa subunit of *Echinococcus granulosus* antigen B (EgAgB8/2) using DNA immunization, *Hybridoma*; 27(6):431-438.

Al-Qaoud KM, Al-Qurran LT, Abdel-Hafez SK (2008). Cytokine and antibody response to immunization of BALB/c mice with *Echinococcus granulosus* using various routes, *Jordan Journal of Biological Sciences*; 1(3) 109-115.

Al-Aghbar MA, Al-Qaoud KM, Abdel-Hafez SK (2008). Immunomodulatory effects of cytokine genes in mice immunized with the second subunit of *Echinococcus granulosus* antigen B gene. *Integrative Journal of Biology*; 4(2):31-38.

Attab AK, Al-Qaoud KM, Al-Batayeneh K and Ajlouni J. Association of SNP in IL-4, IL-18 and Eotaxin gene in with Asthma in a Jordanian Population, *Integrative Journal of Biology*; 4(2):86-91.

Al-Qaoud KM, Abdel-Hafez SK (2008). The induction of T helper type 1 response by cytokine gene transfection protects mice against secondary hydatidosis. *Parasitology Research*; 102(6):1151-1155.

Al-aghbar M. Al-Qaoud, K. M and Abdel- Hafez, S. K (2006). Gene Immunization & Parasitic Diseases: Humoral Immune Response Generated in BALB/c Mice after Immunization with the Gene Coding the Second Subunit of *Echinococcus granulosus* Antigen B (EgAgB8/2). 1st International Egyptian-Jordanian Conference on Biotechnology and Sustainable Development: Current Status and Future Scenarios, **Proceedings**. 218-226

Al-Qaoud, K. M., Al-Quraan L., and Abdel-Hafez, S. K (2006). Towards A Protective Vaccine against Hydatid Disease: Further Steps on the Way. 1st International Egyptian-Jordanian Conference on Biotechnology and Sustainable Development: Current Status and Future Scenarios, **Proceedings**. 195-201

Al-Qaoud, K. M., Ajlouni, M. J., and Abdel-Hafez, S. K. (2006). Elevated IgE and Atopy Among Asthmatic and Non-Asthmatic Children in Northern Jordan. **Jordan Medical Journal**. **40: 105-113**

Al-Qashi, S., Al-Qaoud, K. M., Ja'fer, M., and Khalil, A. (2006). Immunocytogenetic Effects of Gonadotropin Releasing Hormone Analogue: Triptorelin Pamoate (Decapeptyl[®]) During *In Vitro* Fertilization Treatment. **Human and Experimental Toxicology**. **25: 1-5**

Al-Qaoud, K. M., and Abdel-Hafez, S. K. (2005) Humoral and Cytokine Response During Protection of Mice Against Secondary Hydatidosis Caused by *Echinococcus granulosus*. **Parasitol. Res.** **98: 54-60**

Al-Qaoud, K. M., Craig, P. S. and Abdel-Hafez, S. K. (2003). Retrospective Surgical Incidence and Case Distribution of Cystic Echinococcosis in Jordan Between 1994 and 2000. **Acta Tropica**. **87: 207-214**

Al-Qaoud, K. M., Craig, P. S. and Abdel-Hafez, S. K. (2003). Canine Echinococcosis in Northern Jordan: Increased Prevalence and Dominance of Sheep/Dog Strain. **Parasitol. Res.** **90: 187-191**

Qaqish, A. M., Nasrieh, M. A., Al-Qaoud, K. M., Craig, P. S., and Abdel-Hafez, S. K. (2003). The Seroprevalences of Cystic Echinococcosis, and the Associated Risk Factors, in Rural-Agricultural, Bedouin and Semi-Bedouin Communities in Jordan. **Annals of Tropical Medicine and Parasitology**. **97(5): 511-520**

Wang, Y., Zhang, X., Bartholomot, B., Liu, B., Luo, J., Li, T., Wen, X., Zheng, H., Zhou, H., Wen, H., Davaadorj, N., Gambolt, L., Mukhar, T., Al-Qaoud, K., Abdel-Hafez, S., Giraudoux, P., Vuitton, D. A., Fraser, A., Rogan, M. T., and Craig, P. S. (2003). Classification, Follow-Up and Recurrence of Hepatic Cystic Echinococcosis Using Ultrasound Images. **Transaction of the Royal Society of Tropical Medicine and Hygiene**. **97: 203-211**

Abu-Hasan, N., Daragmeh, M., Adwan, K., Al-Qaoud K. M., and Abdel-Hafez, S. K. (2002). Human Cystic Echinococcosis in the West Bank of Palestine: Surgical Incidence and Seroepidemiological Study. **Parasitol. Res.** **88: 107-112**

Saefel, M., Volkmann, L., Korten, S., Brattig, N., Al-Qaoud, K. M., Fleischer, B., and Hoerauf, A. (2001). Lack of Interferon- γ Confers Impaired Neutrophil Granulocyte Function and Imparts Prolonged Survival of Adult Filarial Worms in Murine Filariasis. **Microbes and Infection**. **3**: 203-213

Martin, C., Al-Qaoud, K. M., Ungeheuer, M. N., Paehle, K., Vuong, P. N., Bain, O., Fleischer, B., and Hoerauf, A. (2000). IL-5 is Essential for Vaccine-Induced Protection and for Resolution of Primary Infection in Murine Filariasis. **Med. Microbiol. Immunol.** **189**: 67-74

Al-Qaoud, K. M., Pearlman, E., Hartung, T., Klukowski, J., Fleischer, B., and Hoerauf, A. (2000). A New Mechanism for IL-5-Dependent Helminth Control: Neutrophil Accumulation and Neutrophil-Mediated Worm Encapsulation in Murine Filariasis are Abolished in the Absence of IL-5. **International Immunology**. **12(6)**: 899-908

Hoerauf, A., Nissen-Pahle, K., Schmetz, C., Henkle-Duhrsen, K., Blaxter, M. L., Buttner, D. W., Gallin, M. Y., Al-Qaoud, K. M., Lucius, R., and Fleischer, B. (1999). Tetracycline Therapy Targets Intracellular Bacteria in the Filarial Nematode *Litomosoides sigmodontis* and Results in Filarial Infertility. **The Journal of Clinical Investigation**. **103(1)**: 11-18

Al-Qaoud, K. M., Fleischer, B., and Hoerauf, A. (1998). The Xid Defect Imparts Susceptibility to Experimental Murine Filariasis Association with a Lack of Antibody and IL-10 Production by B Cells in Response to Phosphorylcholine. **International Immunology**. **10(1)**: 17-25

Al-Qaoud, K. M., Taubert, A., Zahner, H., Fleischer, B., and Hoerauf, A. (1997). Infection of BALB/c Mice With the Filarial Nematode *Litomosoides sigmodontis* : Role of CD4⁺ T Cells in Controlling Larval Development. **Infection and Immunity**. **65(6)**: 2457-2461

Khalil, A. M., and Al-Qaoud, K. M. (1993). Toxicity and Partial Characterization of *Ecballium elatorium* Fruit Juice. **Int. J. Pharmacog.** **31(2)**: 135-141