

RA'ED O. ABU ODEH, Ph.D.

Associate Professor

MLS Department

College of Health Sciences

University of Sharjah

Tel. +971-6-5057506 (office)- 971-50-5271928 (mobile)

email: rabuodeh@sharjah.ac.ae

1. PERSONAL DATA

Marital Status: Married.

Languages: Arabic, English.

2. EDUCATIONAL BACKGROUND

Idaho State University, Ph.D., Immunology and Molecular Biology, 1995. Dissertation title: Comparative studies on the induction and detection of cell-mediated immunity in blastomycosis. (GPA: 4.0): Studying the cell mediated immune response to the systemic fungus *Blastomyces dermatitidis*; this involved the use of *in vivo* (skin testing) and *in vitro* (lymphoproliferation) testing using different lysate and filtrate antigen preparations with the potential of developing a vaccine in the future. At the same time we conducted preliminary experimentation in molecular biology aimed at transfecting this fungus for the first time with DNA to study the complex life cycle of it and map virulence genes.

Idaho State University, M.S., Microbiology, 1992. Thesis title: Comparative studies on the induction and detection of antibodies to *Blastomyces dermatitidis* yeast and mycelial (lysate and filtrate) antigens. (GPA: 4.0): Use of different antigens extracted from *Blastomyces dermatitidis* in a comparative study for the detection of antibodies in humans and animals using ELISA. The above work helped in defining antigens for diagnostic and therapeutic (vaccine development) purposes.

Kuwait University, B.S., Medical Technology, 1984. Involved the in-depth practical study of, and theory behind, experiments that would enable a technologist to receive, process and analyze specimens from different body sites in order to help in the diagnosis of a disease. Courses covered included Biochemistry, Clinical and Analytical Chemistry, Medical Microbiology, Parasitology, Immunology and Serology, Hematology, Histopathology and Cytology, Phlebotomy, Blood Banking and Immunohematology and Laboratory Instrumentation. All courses were followed by a practical hospital training in the final year of the program.

3. PROFESSIONAL BACKGROUND

9/2015-Current	Associate Professor; University of Sharjah, College of Health Sciences/MLS, Sharjah, U.A.E.
12/2014- 8/2015	Associate Professor; Dept. of Basic Sciences (Microbiology, Immunology, and Molecular Biology), King Saud bin Abdulaziz University for Health Sciences, Jeddah, KSA.
9/2009-6/2011	Coordinator; MS/PhD program in Molecular Medicine and Translational Research; College of Medicine/Sharjah University and

Paris Diderot- Paris, France (Dual Degree Program).

- 9/2009-6/2011 **Coordinator**; Sharjah Institute for Medical Research- University of Sharjah. (Establish labs, HR, procurement, research domains, training)
- 9/2007-8/2009 **Chairman**; Medical Lab Technology Dept/CHS/Univ. of Sharjah, UAE.
- 2/2000-5/2004 **Chairman**; Medical Lab Technology Dept/CHS/Univ. of Sharjah, UAE.
- 4/2004- 8/2014 **Associate Professor** (Immunology and Molecular biology); Sharjah University, College of Health Sciences/MLT, Sharjah, U.A.E.
- 9/99- 2/04 **Assistant Professor** (Immunology and Molecular biology); Sharjah University, College of Health Sciences/MLT, Sharjah, U.A.E.
- 10/97- 8/99 **Research Scientist and Instructor**: Dept. of Medicine, U. of Arizona School of Medicine: Conducting research concerning the immunology and molecular biology of the systemic fungus *Coccidioides immitis*; areas of interest include DNA vaccine and transformation strategies development.
- 6/1995- 9/97 **Post-Doctoral Training and Instructor**: Pathology Dept., University of Texas Southwestern Medical Center (UTSWMC)-Dallas. Worked in molecular immunology studying whether a cis-acting sequence is responsible for the isotype switching of IgM from the membrane (m-IgM) to the secreted (s-IgM) form in activated B-lymphocytes.
- 1991-1995 **Teaching Assistant**, Dept. of Biology, Idaho State University, Pocatello, ID, USA.
- 1987-1990 **Medical Representative**, Al-Gharabli Int'l Group. Medical Dietitics (Nestle World Trade), Kuwait.
- 1984-1987 **Research Assistant**, Pathology Dept., Faculty of Medicine, Kuwait University, Kuwait.

4. TECHNICAL EXPERIENCE

Molecular Biology: Recombinant DNA procedures, bacterial, yeast and mammalian cells transformations, expression vectors, RNA studies, Southern and Northern techniques, PCR and sequencing, recombinant and DNA vaccine development, bioinformatics, phylogenetic analysis.

Immunology: Cell and tissue culture, Enzyme Immunoassays (ELISA), serologic methods (complement fixation, agglutination, etc.), animal experimentation (vaccination, skin testing), SDS/PAGE and Western techniques, and electron microscopy (TEM and SEM).

Clinical Microbiology: Safe sample handling, processing and testing using culture and biochemical techniques, differential and selective media and use of serological techniques and isotyping for the differential diagnosis of infectious diseases.

5. AWARDS AND HONORS

1982- 83 and 84	Presented Kuwait Univ. awards for outstanding scholastic achievement.
1992	Presented Idaho Academy of Science Graduate Student Research Paper Award; Annual Meeting, Albertson College of Idaho, Caldwell, ID.
1993 & 94	Presented Graduate Student Summer Research Fellowship, Dept. of Biology, Idaho State Univ., Pocatello, ID.
1994	Presented Idaho Academy of Science Graduate Student Research Paper Award, Idaho State Univ., Pocatello, ID.
1991, 92 & 94	Awarded research grants by Graduate Student Research Committee to conduct studies in immunology and molecular biology on <i>Blastomyces dermatitidis</i> .
2001	Research Grant; "Prevalence, significance, and genotype(s) of Hepatitis G (HGV) virus in the UAE; (38,000 DHS)(PI). Univ. of Sharjah/UAE.
2001	Research Grant; Prevalence, significance, and genotype(s) of TT virus (TTV) in normal donors and hepatitis patients in the UAE; (36,000 DHS)(Collaborator).
2001	Travel Grant; Univ. of Sharjah/UAE. Summer 2001, with the Univ. of Arizona College of Medicine, Tucson, AZ, USA. (16,000 DHS).
2002	Research Grant;" Transformation of <i>Cryptococcus neoformans</i> , a medically important fungus, using <i>Agrobacterium tumefaciens</i> ." Submitted to the Hamdan Bin Rashid Medical Society, Dubai, UAE (99,000 DHS). (<u>Awarded 9/2002</u>).
6/2006	Sharjah Islamic Bank Award for Research Excellence (10,000 DHS).
9/2006	Research Grant: "Prevalence, significance, and genotype(s) of Hepatitis G (HGV) virus among Jordanian and Kuwaiti blood donors" (40,000 DHS; PI).; University of Sharjah/UAE.
5/2007	Sharjah Islamic Bank Award for Research Excellence (5,000 DHS); "Prevalence, significance, and genotype(s) of Hepatitis G (HGV) virus in the UAE".
3/2008	Certificate of Achievement Award; Hamdan Bin Rashid for Medical Research, Dubai, UAE;" Transformation of <i>Cryptococcus neoformans</i> , a medically important fungus, using <i>Agrobacterium tumefaciens</i> ."
1/2011	Research Grant;" The effect of hypoxia-induced HIF-1 and STAT3 in the tumor microenvironment and the use of recombinant vectors to activate anti-tumor immune response." Awarded by the Hamdan Bin Rashid Medical Society, Dubai, UAE (146,000 DHS). (<u>Awarded 1/2011</u>).
7/2013	Research Grant; " Rates of infection and phylogenetic analysis of hepatitis G virus (HGV) I GB Virus C (GBV-C) among Qatari Blood Donor"; Awarded by Hamad Medical Corporation- Qatar (84,500 QRs)

Co-PI.

- 2013 Qatar University internal Grant # QUUG-CAS-DHS-13/14-2; "Detection and phylogenetic genotyping of TT virus among blood donors in Qatar".
Co-Lead PI. Total project budget: \$41,000.
- 8/2013 Research Grant;"Relationships of vitamin D, VDR polymorphism and adipokines and their effects on the oral health in metabolic syndrome".
Awarded by Sharjah University- Sharjah/UAE (94,000 AED). **Co-PI**

6. MEMBERSHIPS

**Editorial Board Member: Journal of Bacteriology & Mycology: Open Access.
MedCrave Group (USA).**

**Editorial Board Member: Journal of Human Virology & Retrovirology: Open Access.
MedCrave Group (USA).**

Sigma Xi Idaho Academy of Science
American Society for Microbiology (ASM)
Medical Mycological Society of the Americas (MMSA)
Intermountain Branch-ASM

7. PROFESSIONAL COURSES/WORKSHOPS ATTENDED

- 5/1994 Molecular Biology/Immunodiagnosics of Fungi Workshop by NIH-Northern Arizona Univ., Flagstaff, AZ, USA.
- 4/1995 "Focus on Fungal Infections-5" Workshop, IMDEX-sponsored, San Francisco, CA, USA.
- 2/2003 "Quality Assurance in the Clinical Laboratory" Symposium- University of Sharjah, Sharjah, UAE.
- 14-16/2/2008 "Clinical Research Methodology" Workshop; Organized by College of Medicine in collaboration with Sh. Hamdan Bin Rashid Award for Medical Sciences.
- 24-26/4/2008 "Statistics for Non-Statisticians" Workshop; Organized by College of Medicine in collaboration with Sh. Hamdan Bin Rashid Award for Medical Sciences.
- 17-19/6/2010 "Evidence Based Health Care" Workshop; Organized by College of Medicine in collaboration with Sh. Hamdan Bin Rashid Award for Medical Sciences.

8. COMMITTEES (AT THE UNIVERSITY OF SHARJAH)

- 1) Chair; Ethics and Research Committee (Medical/Health Sciences Colleges)
- 2) University Research Board Member (Represented Medicine, Pharmacy, Dentistry, and Health Sciences Colleges)
- 3) Educational Resources Committee
- 4) Registration Committee
- 5) Joint Hospital/University Committee
- 6) College Research/Ethical Committee

- 7) Central Labs Committee (and Tenders Committee)
- 8) University Accreditation Committee
- 9) University Computer Committee
- 10) CHS Advisory Committee
- 11) CHS and UoS Curriculum Committee
- 12) CHS representative on CCE
- 13) International Advisory Committee
- 14) Molecular Genetics Group Coordinator
- 15) College Board

9. TEACHING

At the Univ. of Sharjah:

Basic Biology/General Biology Immunology Molecular Biology (and Lab)
 Human Biology Medical Bacteriology Medical Virology Seminars for Health Sciences
 General Microbiology Medical Microbiology Diagnostic Microbiology
 Health Awareness (Infectious Diseases/Genetics sections of the course; University Elective)
 General Microbiology Laboratory Lab Management and QC Blood Banking & Transfusion

Previous Places:

Introductory Microbiology Immunology Advanced Immunology
 Pathogenic Microbiology Molecular Biology
 Introductory Microbiology Laboratory Advanced Microbiology Laboratory
 Immunology Laboratory Pathogenic Microbiology Laboratory
 General Biology (teaching microbiology, molecular and cell biology sections of general biology courses offered to biology and non-biology major students)

10. RESEARCH PUBLICATIONS (Peer-Reviewed Published Papers)

R.O. AbuOdeh, H. Aziz, H. Moussa, S. Hussien, T. Hadwan and G.K. Nasrallah (2017)
 First study in Qatar to reveal high Legionella counts in cooling towers. Eastern Mediterranean Health Journal (*Accepted*)

Ali Abu Odeh, Y. Al-Douri, C. H. Voon, R. Mat Ayub, Subash C. B. Gopinath, **Raed Abu Odeh**, M. Ameri, A. Bouhemadou (2017) A needle-like Cu₂CdSnS₄ alloy nanostructure-based integrated electrochemical biosensor for detecting the DNA of Dengue serotype 2. Microchim Acta (*In press; DOI 10.1007/s00604-017-2249-5*)

Ali ElBakri, Lazarus Mogane, Sinda Ezzedine, Natasha Potgeiter, Pascal Bessong, **Raed AbuOdeh**, Amidou Samie (2016). Prevalence of Cryptosporidium spp. among asymptomatic healthy expatriate workers in Sharjah, United Arab Emirates. African Journal of Infectious Diseases (*In Press*)

Eihab A. Abdel Aziz, Mousa AlAzzawi, Adam D. Abakar, Bakri Y. M. Nour, **Ra'ed AbuOdeh** and Ali ElBakri (2016). Prevalence of Syphilis and Human Immunodeficiency Virus in Expatriates in Sharjah, United Arab Emirates. Tropical Biomedicine (*Accepted*). **IF 0.921**

Hayder A. Hasan, **Ra'ed O. AbuOdeh**, Wan Abdul Manan Bin Wan Muda, Hamid Jan Bin Jan Mohamed, AB Rani Samsudin (2017) Association of Vitamin D Receptor gene polymorphisms with metabolic syndrome and its components among adult Arabs from the United Arab Emirates. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews* (*In press*)

Hamadeh Tarazi, **Raed Abu Odeh**, Raed Al-Qawasmeh, Imad Abu Yousef, Wolfgang Voelter, Taleb H. Al-Tel (2016). Design, synthesis and SAR analysis of potent BACE1 inhibitors: Possible lead drug candidates for Alzheimer's disease. *European Journal of Medicinal Chemistry* 12;125:1213-1224. **IF 3.9**

Ahmed A. Al-Qahtani, Enas S. Alabsi, **Raed AbuOdeh**, Lukman Thalib, and Gheyath K. Nasrallah (2016). Prevalence of Anelloviruses (TTV, TTMDV, and TTMV) in Healthy Blood Donors and in Patients Infected with HBV or HCV in Qatar. *Virology Journal* 13;208-213.

Raed A. Al-Qawasmeh, Mutasem O. Sinnokrot, Mohammad H. Semreen, **Raed Abu Odeh**, Musa H. Abu-Zarg, Basil Bani Huthail, Hamadeh Tarazi, Imad Abu Yousef, and Taleb H. Al-Tel (2016). Design, Synthesis and Qualitative Structure Activity Relationship Evaluations of Quinoline-Based Bisarylimidazoles as Antibacterial Motifs. *Medicinal Chemistry* 12;563-573. **IF 5.4**

Raed AbuOdeh, Sinda Ezzedinea, Amidou Samie, Christen Rune Stensvoldc, Ali ElBakria (2016). Prevalence and subtype distribution of *Blastocystis* in healthy individuals in Sharjah, United Arab Emirates. *Infection, Genetics and Evolution* 37;158–162. (*doi:10.1016/j.meegid.2015.11.021*) **IF 2.59**

Raed AbuOdeh, Enas Al-Absi, Nadima H. Ali, Tameem A. Hadwan, Makiyeh Khalili, Naema Al-Mawlawi, Asmaa A. Althani, and Gheyath K. Nasrallah. 2015. Detection and Phylogenetic Analysis of Human Pegivirus (GBV-C) among Blood Donors and Patients Infected with Hepatitis B Virus (HBV) in Qatar. *Journal of Medical Virology* 87: 2074-2081- (*DOI: 10.1002/jmv.24289*) **IF 1.998**

Raed AbuOdeh, Naema Al-Mawlawi, Ahmed A. Al-Qahtani, Marie Fe F. Bohol, Mohammed N. Al-Ahdal, Haydar A. Hasan, Lamees AbuOdeh, and Gheyath K. Nasrallah. 2015. Detection and Genotyping of Torque Teno Virus (TTV) in Healthy Blood Donors and Patients Infected With HBV or HCV in Qatar. *Journal of Medical Virology* 87:1184–1191. **IF 1.998**

Ali ElBakri, Amidou Samie, Pascal Bessong, Natasha Potgieter, **Ra'ed Abu Odeh** (2014). Detection and molecular characterisation of *Giardia lamblia* genotypes in Sharjah, United Arab Emirates. *Transactions of the Royal Society of Tropical Medicine and Hygiene* 108(8):466-73. **IF 1.631**

Ali ElBakri, Amidou Samie, Sinda Ezzedine, **Ra'ed Abu Odeh** (2014). Genetic variability of the Serine-Rich *Entamoeba histolytica* protein gene in clinical isolates from the United Arab Emirates. *Tropical Biomedicine* 31(2): 370–377. **IF 0.921**

Raed Al-Qawasmeh, Monther A. Khanfar, Mohamad H. Semreen, **Raed Abu Odeh**, and Taleb H. Al-Tel (2013). Design and Synthesis of New Hybrid Triazine-indole Derivatives as Potential Antimicrobial Agents against Hospital Resistant Strains. *HETEROCYCLES* 87(11); 2385-2394. **IF 0.908**

Tareq M. Osaili, Mahmoud Taani, Anas A. AL-Nabulsi, Amita Attlee, **Ra'ed Abu Odeh**, Richard A. Holley and Reyad S. Obaid (2013). Survival of *Escherichia coli* O157:H7 during the manufacture and storage of fruit yogurt. *Journal of Food Safety* 33(3);282-290. **IF 0.863**

Ali ElBakri, Amidou Samie, Sinda Ezzedine, **Raed Abu Odeh** (2013). Differential Detection of *Entamoeba histolytica*, *Entamoeba dispar* and *Entamoeba moshkovskii* in Fecal Samples by Nested PCR in the United Arab Emirates (UAE). *Acta Parasitologica* 58(2);185-190, **IF 0.965**

Semreen MH, El-Awady R, **Abu-Odeh R**, Saber M, Al-Qawasmeh RA, Chouaib S, Al-Tel TH, Voelter W (2013). Tandem Multicomponent Reactions Toward the Design and Synthesis of Novel Antibacterial and Cytotoxic Motifs. *Current Medicinal Chemistry* 20; 1445-1459. **IF 3.715**

Samie, A. ElBakri and **R. AbuOdeh** (2012). Amoebiasis in the tropics: Epidemiology and Pathogenesis. *Current Topics in Tropical Medicine*. Edited by Alfonso J. Rodriguez-Morales, Hard cover, 564 pages, Publisher: InTech, Published: March 16, DOI: 10.5772/1335ISBN-978-953-51-0274-8- Available from: <http://www.intechopen.com/articles/show/title/amoebiasis-in-the-tropics-epidemiology-and-pathogenesis>.

R.O. Abu Odeh (2011). Detection and Genotyping of GB Virus-C in dromedary camels in the United Arab Emirates. *Veterinary Microbiology* 147; 226–230. **(Retracted)**

Ali ElBakri, Paul N. Nelson, **R.O. Abu Odeh** (2010). The state of antibody therapy. *Human Immunology* 71;1243–1250. **IF 2.872**

R.O. Abu Odeh, S. Yasin, G. Nasrallah, Y. Babi (2010). Rates of infection and phylogenetic analysis of GB virus-C among Kuwaiti and Jordanian blood donors. *Intervirology* 53:402-407. **IF 1.756**

R.O. Abu Odeh, M. I. Al-Moslih, M. W. Al-Jokhdar, S. A. Ezzeddine (2005). Detection and Genotyping of GBV-C virus in the United Arab Emirates. *Journal of Medical Virology* 76(4):534-540. **IF 2.576**

M. I. Al-Moslih, **R. O. Abuodeh**, and Yu-Wen Hu (2004). Detection and Genotyping of TT virus in Healthy and Subjects With HBV or HCV in Different Populations in United Arab Emirates. *Journal of Medical Virology* 72 (3): 502-508.

R. O. Abuodeh, M. E. Chester, G. M. Scarlone (2004). Comparative serological evaluation of ten *Blastomyces dermatitidis* yeast phase lysate antigens from different sources. *Mycoses* 47: 143-149.

H. S. Harakeh, **R. O. Abuodeh**, R. Dham (2003). Antimicrobial susceptibility of bacterial isolates recovered from urinary tract infections to lomefloxacin and four other commonly prescribed antimicrobials in United Arab Emirates. *BMJ Middle East* 9: 119-120.

R. O. Abuodeh, J. N. Galgiani, G. M. Scarlone (2002). Molecular approaches to the study of *Coccidioides immitis*. *Int'l Journal of Medical Microbiology* 292: 373-380.

Bono JL, Jaber B, Fisher MA, **Abuodeh RO**, O'Leary-Jepson E, Scarlone GM, Smith LH Jr. (2001). Genetic diversity and transcriptional analysis of the *bys1* gene from *Blastomyces dermatitidis*. *Mycopathologia* 152(3):113-123.

R.O. Abuodeh, M.J. Orbach, M. A. Mandel, A. Das, and J. Galgiani (2000). Genetic transformation of *Coccidioides immitis* by *Agrobacterium tumefaciens*. *Journal of Infectious Diseases*; 181:2106-10.

M. Kim, P. Qiu, **R.O. Abuodeh**, J. Chen, and D. Yuan (1999). Differential regulation of transcription termination occurring at two different sites on the micro-delta gene complex. *International Immunology* 11(5):813-824.

Abuodeh, R. O., L. F. Shubitz, E. Siegel, S. Snyder, T. Peng, K. I. Orsborn, E. Brummer, D. A. Stevens and John N. Galgiani (1999). Resistance to *Coccidioides immitis* in mice after immunization with recombinant protein or a DNA vaccine of a proline-rich antigen. *Infection and Immunity* 67(6):2935-2940.

R.O. Abuodeh, H. Wei and D. Yuan (1998). Effect of upstream RNA processing on selection of μ S vs μ M Poly(A) sites. *Nucleic Acids Research* 26(23): 5417-5424.

Wakamoto, A., **R.O. Abuodeh** and G.M. Scalarone (1997). Comparative studies on the detection of antibodies and delayed hypersensitivity responses with ten *Blastomyces dermatitidis* yeast lysate antigens. *Mycoses* 40: 147-152.

Abuodeh, R.O., V. Winston and G.M. Scalarone (1996). Induction and detection of cell mediated reactions with different *Blastomyces dermatitidis* antigenic preparations. *Mycoses* 39: 85-93.

Fisher, M.A., J.L. Bono, **R.O. Abuodeh**, A.M. Legendre and G.M. Scalarone (1995). Sensitivity and specificity of an isoelectric focusing fraction of *Blastomyces dermatitidis* yeast lysate antigen for the detection of canine blastomycosis. *Mycoses* 38: 177-182.

Abuodeh, R.O., J.L.Bono and G.M. Scalarone (1995). Induction and detection of delayed dermal hypersensitivity in guinea pigs with *Blastomyces dermatitidis* yeast lysate and filtrate antigens. *Journal of Medical and Veterinary Mycology* 33(1): 19-25.

Orr, M.L., **R.O. Abuodeh** and G.M.. Scalarone (1994). Comparative stability, sensitivity and specificity studies with different lots of *Blastomyces dermatitidis* yeast and mycelial lysate antigens. *Mycoses* 37: 155-160.

Abuodeh, R.O. and G.M. Scalarone (1994). Comparative studies on the detection of delayed dermal hypersensitivity in experimental animals with lysate and filtrate antigens of *Blastomyces dermatitidis*. *Mycoses* 37: 149-153.

11-PRESENTATIONS/POSTERS (PEER-REVIEWED) AT INTERNATIONAL MEETINGS:

- 1- Nasrallah GK, Al-Qahtani AA., Al-Mawlawi N, and **AbuOdeh R.** (June 7, 2015) Detection and phylogenetic analysis of Torque Teno Virus (TTV) among blood donors and HBC or HBV-infected patients. 6th Congress of European Microbiologists (FEMS 2015). Maastricht, the Netherlands.

- 2- Hasan H, **AbuOdeh R**, Wan Muda W, Jan Mohammed H. Vitamin D and metabolic syndrome. First Research Symposium, Imperial College London Diabetes Center, 1st October 2015, Abu Dhabi, UAE.
- 3- Khan A, Ali NH, Khalili MA, Molawi NH, Nasrallah AA, **AbuOdeh R**, and Nasrallah GK. Infection rates and phylogenetic analysis of hepatitis G virus (HGV)/GB virus C (GBV-C) among Qatari blood donors. International Union of Microbiological Societies Congresses, Montreal, Canada, 2014.
- 4- A. ElBakri, L. Mogane, S. Ezzedine, **R. AbuOdeh**, P. Bessong, N. Potgeiter, A. Samie.
Real Time PCR detection and prevalence determination of *Cryptosporidium* species in stool specimens from the United Arab Emirates. 16th International Congress on Infectious Diseases, Cape Town, South Africa, April 2-5, 2014.
- 5- A. Samie, A. K. ElBakri, **R. AbuOdeh**, T. Nozaki. Small subunit ribosomal RNA sequence analysis of *E. histolytica* strains from rural South Africa. 16th International Congress on Infectious Diseases, Cape Town, South Africa, April 2-5, 2014.
- 6- Hassan, H., **AbuOdeh, R.**, Wan Muda, W., Jan Mohammed, H. Vitamin D levels and VDR polymorphism relationships to metabolic syndrome components in overweight/obese Arab females (Abstract). *Journal of Obesity Reviews* 2014; 15 (S2): 44. The 12th International Congress on Obesity, Kuala Lumpur, Malaysia, 17-20 March 2014.
- 7- **Ra'ed Abu Odeh**, Marco Ruggiero. The effects of GcMAF on neurons and microglia, and on nagalase levels in cancer patients. 2nd GcMAF Immunology Conference 2013. Dubai 5-7 December, 2013.
- 8- A. ElBakri, A. Samie and **R. AbuOdeh**. Detection and molecular characterization of human isolates of *Giardia lamblia* from the United Arab Emirates. *Tropical Medicine and International Health*; volume 18 suppl 1; pp 108–231; P.1.10.2.004 (A), September 2013.
- 9- Ali ElBakri, **R. Abu Odeh**. Molecular characterization of *Entamoeba histolytica* isolates using tRNA gene-linked short tandem repeats amplification in the United Arab Emirates. *Amoebiasis 2012*; India. March 4-7, 2012.
- 10- Rouab S, Awadallah S, **Abu Odeh R**. Vitamin D Status among non-menopausal women in United Arab Emirates. First Regional Nutrition Conference: Nutrition Challenges in the East Mediterranean Region 28; Qatar University- 28, 29 March, 2011.
- 11- **R. Abuodeh**. Rates of infection and phylogenetic characteristics of GBV-C in the UAE, Kuwait and Jordan. Abstract presentation at the 7th Scientific Meeting of the International Epidemiology Association; King Faisal Specialist Hospital & Research Center- Riyadh, KSA; 27-29 November 2007.
- 12- **R. Abuodeh**. Transformation of *Cryptococcus neoformans*, a

- medically important fungus, using *Agrobacterium tumefaciens*. Sh. Hamdan Bin Rashid for Medical Awards Annual Scientific Meeting; December 2004.
- 13- K. I. Orsborn, **R. Abuodeh**, T. Peng, M. Bolaris, M. J. Orbach, J. N. Galgiani. Gene Replacement in an Antigen2/PRA (Ag2/PRA) Disrupted Mutant of *Coccidioides posadasii*. Abstract of the Annual Meeting of the American Society for Microbiology, Washington, DC, USA. 2003.
 - 14- Yu-Wen Hu, M. I. Al-Moslih, **R. O. Abuodeh** et al. Detection and phylogenetic characterization of TT virus (TTV) and TTV-like viruses (TTVL) in blood donors, general population and multiple blood-transfused patients. 9th Annual Conference of the Blood Safety, Washington, DC, USA. 2002.
 - 15- **Abuodeh, R.O.**, L. Shubitz and J.N. Galgiani. A recombinant proline rich antigen (PRA) and its cloned gene as vaccines. Abstract of the Annual Meeting of the American Society for Microbiology, Chicago, IL, USA. 1999.
 - 16- **Abuodeh, R. O.**, and Yuan, Dorothy. Regulation of [mu]S/[mu]M splicing in B lymphocytes. Journal of Allergy & Clinical Immunology. 99(1, PART 2):100, January 1997.
 - 17- Fisher, M.A., J.L.Bono, **R.O. Abuodeh**, A.M. Legendre and G.M. Sclarone. Sensitivity and specificity studies with Rotofor preparative IEF fractions of *Blastomyces dermatitidis* yeast lysate antigens. Abstract of the Annual Meeting of the American Society for Microbiology, Las Vegas, NV, USA. 1994.
 - 18- **Abuodeh, R.O.**, J.L. Bono and G.M. Sclarone. Induction and detection of delayed dermal hypersensitivity in guinea pigs with *Blastomyces dermatitidis* yeast lysate antigens. Abstract of the Annual Meeting of the American Society for Microbiology, Las Vegas, NV, USA. 1994.
 - 19- **Abuodeh, R.O.** and G.M. Sclarone. Comparative studies using *Blastomyces dermatitidis* yeast and mycelial antigens to detect primary and secondary antibody responses to lysate and whole-cell antigens. Abstract of the Annual Meeting of the American Society for Microbiology. Atlanta, GA, USA. 1993.

12. Post-Graduate Students Supervision:

- 2/2015-current Ms. Sodos Harfeel- Ph.D. candidate
 School Of Health Sciences, Universiti Sains Malaysia, Malaysia.
Metabolic syndrome and endotoxemia: study prevalence, associated factors and the effectiveness of probiotic supplementation intervention among population in Sharjah, UAE. Field Supervisor.
- 9/2010-12/2016 Dr. Haydar Hassan- Ph.D. candidate
 Biochemistry Dept., Universiti Sains Malaysia, Malaysia.
Thesis title: Prevalence and attributes of metabolic syndrome in the UAE. Co-Adviser.
- 9/2010-5/2014 Mr. Ali ElBakri- Ph.D. candidate; Microbiology Dept, Venda University,

**South Africa. Thesis title: Molecular studies on intestinal parasites in the UAE.
Co-Adviser.**

**9/2012-6/2013 Ms. Feda Emad- M.Sc. student in Molecular Medicine/ Sharjah
University; Thesis title: The Effect of Corticotropin Releasing Hormone, via FasL
in Hypoxic Breast Cancer Cells, on Immune Evasion. Adviser.**

13. RESEARCH PRESENTATIONS AT REGIONAL MEETINGS

- 3/2008 "Cancer diagnosis using molecular biology"; presentation at The Emirates Pathologists Meeting; College of Medicine, UoS.
- 4/2005 Collaboration in molecular genetics research. National Research Center-Cairo, Egypt.
- 5/2003 PFGE analysis of drug resistant versus susceptible *E. coli* isolates from urinary tract infections. American Society for Microbiology 103rd annual meeting, Washington, USA.
- 2/2003 Professionalism in the Clinical Laboratory. College of Health Sciences, University of Sharjah, Sharjah, UAE.
- 7/2002 Transformation of *Coccidioides immitis* using *Agrobacterium tumefaciens*. Dept. of Biological Sciences, Idaho State University, Pocatello, ID, USA.
- 9/1998 Towards a DNA vaccines for coccidioidomycosis (Valley Fever). St. Luke Center for Pulmonary Diseases, Univ. of Arizona School of Medicine, Tucson, Arizona, USA.
- 5/1997 Suggested mechanisms for B-lymphocytes isotype switching. Pathology Dept. Seminar Series, UTSWMC-Dallas, Texas, USA.
- 4/1995 Detection of phagocytic cell mediated immune response to *Blastomyces dermatitidis*. Presented at the intermountain Branch-ASM Annual Meeting, Pocatello, Idaho, USA.
- 2/1995 Immune response in blastomycosis. Presented at the University of Texas Southwestern Medical Center, Cancer Immunobiology Dept., Dallas, Texas, USA.
- 2/1995 Comparative studies on the detection of antibody and cell mediated responses with ten *Blastomyces dermatitidis* yeast lysate antigens. Co author of paper presented at the Idaho Academy of Science Meeting, Nampa, Idaho, USA.
- 1/1995 Restriction mapping of *bys 1*, a temperature regulated gene from the yeast phase of *Blastomyces dermatitidis*. Co-author of paper presented at the Idaho Academy of Science Meeting, Nampa, Idaho, USA.
- 1/1995 Detection of lymphocytes blastogenesis and DTH using *Blastomyces dermatitidis* antigens. Presented at the Idaho Academy of Science Meeting, Nampa, Idaho, USA.
- 10/1994 Detection of antibodies and delayed dermal hypersensitivity with *Blastomyces dermatitidis* Rotofor preparative IEF fraction. Co-author of paper presented at the Idaho Academy of Science Meeting, Pocatello, Idaho, USA.
- 7/1994 Evaluation of a new colorimetric technique for the demonstration of mitogen-induced lymphocyte blastogenesis. Presented at the Idaho Academy of Science Meeting, Pocatello, Idaho, USA.
- 4/1992 Enzyme Immunoassay detection of antibodies in canine blastomycosis with *Blastomyces dermatitidis* lysate antigens. Co-author of paper presented at the Idaho Academy of Science Meeting, Caldwell, Idaho, USA.
- 3/1992 Induction and detection of antibodies to *B. dermatitidis* yeast and mycelial antigens by indirect ELISA . Presented at the Idaho Academy of Science Meeting, Caldwell, Idaho, USA.
- 7/1991 Comparative studies on lysate antigens prepared from a soil isolate of *Blastomyces dermatitidis*; **Detection of delayed hypersensitivity**. Co-author of paper presented at

4/1991 the Intermountain-ASM, Logan, Utah, USA.
Comparative studies on lysate antigens prepared from a soil isolate of *Blastomyces dermatitidis* : **ELISA detection of antibodies**. Presented at the Intermountain Branch-ASM, Logan, Utah, USA.

14. REFERENCES

Samir M. Awadallah, Ph.D.
Professor and Acting Dean,
College of Health Sciences,
University of Sharjah, Sharjah, UAE
sawadallah@sharjah.ac.ae (email)
+971-6-5057500 (Office) +971-6-5057515 (Fax)

Basem Attili, Ph.D.
Professor and Dean,
College of Graduate Studies and Scientific Research
University of Sharjah, Sharjah, UAE
b.attili@sharjah.ac.ae (email)
+971-6-5050376 (office)

Andrea Baumann, Ph.D.
Professor,
Associate V-P, Global Health, Faculty of Health Sciences
Director, WHO Collaborating Centre in Primary Care Nursing & Health Human Resources
Scientific Director, McMaster Site, NHSRU
1280 Main Street West, MDCL 3500
Hamilton, Ontario Canada L8S 4K1
baumanna@mcmaster.ca (email)
Tel +1.905.525.9140 ext. 22581 | fax +1.905.522.5493