

CURRICULUM VITAE

MOHAMMAD Q. AL-NATOUR, DVM, MPH, Ph. D



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https://www.researchgate.net/profile/Mohammad_Al-Natour/contributions

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

<https://www.ncbi.nlm.nih.gov/pubmed/?term=Al-Natour+M>

<https://www.researchgate.net/project/WSVirology>

Marital Status: Married, four children

Languages: Arabic & English (Fluent), Urdu (Fair)

Computer Skills: Microsoft office & Statistical software programs

SUMMARY OF QUALIFICATIONS

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|---|------------------|
| ➤ Ph . D . The Ohio State University, Ohio, USA | 1991-1996 |
| ➤ M.P.H. Graduate School of Public Health,
University of Pittsburgh, Pennsylvania, USA | 1983-1984 |
| ➤ D.V.M. Faculty of Veterinary Medicine,
University of Agriculture, Faisalabad, Pakistan | 1975-1979 |

PROFESSIONAL EXPERIENCE

CURRENT POSITION:

1. Professor of Avian Diseases & Public Health
2. Head Department of Pathology & Public Health
3. Bureau member of the WVPA
4. President of the Jordanian Veterinary Poultry Association-WVPA
5. **FAO National Consultant; Expert for Avian Influenza**
6. **OIE Scientific Collaborator for Avian Influenza**
7. **World Society for Virology (WSV) Collaborator:**
<https://www.researchgate.net/project/WSVirology>
8. Consultant; Expert for Poultry Enterprises.
9. Expert & Consultant for Academic & Scientific Promotion for Universities outside Jordan.

RESEARCH INTEREST:

- [Avian Influenza & Avian-Human Pathogens](#) of Public Health Importance (One Health)
- Active and Passive Disease Surveillance; (Prevalence & Risk factors)
- Food Safety and Antimicrobial Resistance
- Respiratory, Enteric and Immunosuppressive Diseases of Poultry

ACADEMIC EXPERIENCE

- **Scientific Research Committee Member** / Scientific Research Support Fund, Ministry of Higher Education, Amman Jordan, **2011**
- **Visiting Scientist** to the Department of Food Animal Health Research Program, OARDC, The Ohio State University, Wooster, Ohio:
September-October 2000: Working on RT-PCR/RFLP of infectious bursal disease virus.
July-Sept. 2003: Working on interference of infectious bursal disease virus strains in chickens and E.M. of turkey Toro virus.
July-Sept. 2006: Working on [interspecies transmission of avian influenza viruses](#)
- **Research Associate** at FAHRP, Wooster. The Ohio State University (**1995-1996**)
- **Research Associate** at FVM, Baton Rouge. Louisiana State University (**1991**)
- **Instructor (1986-1991)** Faculties of Medicine and Vet. Med, JUST, Irbid-Jordan
- **Instructor (1984-1986)** Faculty of Public Health & Allied Health Sciences. Yarmouk University, Irbid-Jordan
- **Vaccine Production (1979-1983)** Jordan Vaccine Institute, and Medical Diagnostic Labs, Ministry of Health, Amman, Jordan

ADMINISTRATIVE EXPERIENCE

- **Sept. 5th, 2017 to Date:** Head, Department of Pathology and Public Health, Faculty of Veterinary Medicine, JUST, Jordan
- **Sept. 2004 to August 2006:** Head, Department of Pathology and Public Health, Faculty of Veterinary Medicine, JUST, Jordan
- **Sept. 2002 to August 2004:** Dean Assistant, Faculty of Veterinary Medicine. JUST, Jordan
- **1981-1983:** Head Section of Bacteriology & Serology, Diagnostic Labs. Princess Basma Hospital, Ministry of Health, Irbid, Jordan

PROFESSIONAL AND SCIENTIFIC SOCIETIES MEMBERSHIP

1. Jordanian Veterinary Medical Association since **1979**
2. The American Public Health Association, **1984**
3. The American Association of Avian Pathologists, **1997, 1999, 2006**
4. The World Veterinary Poultry Association, since **1998**
5. Jordan University of Science & Technology Faculty Society, since **2004**
6. Member of committees for [Avian Influenza](#) in Jordan at Jordanian Ministry of Agriculture (MoA), Jordanian Veterinary Medical Association, and [HRH Prince Al-Hassan Ben Talal Influenza committee](#) since **2005**
7. OIE/FAO Network of Expertise for [Avian Influenza {OFFLU Network}](#) since **2005**
8. Jordan Ministry of Agriculture expert for poultry diseases since **1999**
9. Avian Diseases expert for The Arab Organization for Agricultural and Development {AOAD} since **2005**
10. Bureau member of the World Veterinary Poultry Association (WVPA) since August, **2011**
11. President of the Jordanian Veterinary Poultry Association; branch of the WVPA since, **2011**
12. World Society for Virology (WSV) Collaborator since **2017**:
<https://www.researchgate.net/project/WSVirology>

INTERNATIONAL RESEARCH EXPERIENCE

1. Co-PI of the Jordanian team working on a project for the Middle East Regional Collaboration (MERC) Program USAID. The US \$ 534,100; Jordan share US\$240,000. Project is on A Newly Emerging Cattle-Epizootic Hemorrhagic Disease [Virus](#) in the Middle-East – from field to laboratory and vice versa (2010-2012).
2. Steering committee member for the project entitled "[Interim Emergency Assistance for Avian Influenza in Jordan](#)" "[SFERA Avian Influenza Response Program](#)" FAO-MOA, Jordan, for the amount of US\$ 320,000. (2006-2008).
3. Co-PI of the Jordanian team working on a project for the Middle East Regional Collaboration (MERC) Program USAID & OSU. The US\$1,189,380 (1999-2003). Project is on Neoplastic and Immunosuppressive Diseases of Poultry.
4. Research collaboration with Dr. Ilaria Capua, [OIE/FAO](#) Reference Laboratory for Newcastle Disease and Avian Influenza, Istituto Zooprofilattico Sperimentale delle Venezie, Viale dell'Università, 10, 35020, Legnaro, Padova, Italy: [Research on Avian Influenza & Newcastle Disease Viruses](#)
5. Research collaboration with Dr. Y. M. Saif and Dr. Chang-Won Lee, Department of Food Animal Health Research Program, OARDC: The Ohio State University, Wooster, Ohio, USA. [Research on Avian Influenza](#)
6. Research collaboration with Dr. Daniel R. Perez, Department of Veterinary Medicine, University of Maryland, College Park and Virginia-Maryland Regional College of Veterinary Medicine, College Park, Maryland, USA. [Research on Avian Influenza](#)

TEACHING EXPERIENCE

- **Postgraduate courses in avian diseases leading to clinical diploma and MSc Degree (1997-date):**
 - VM600: Practical training (3 credit. hrs.).
 - VM601: Avian clinics (4 credit. hrs.).
 - VM 713 & 714: Practical training in avian diseases I & II (2 credit hrs. each).
 - VM741: Avian viral diseases (3 credit. hrs.).
 - VM 742: Avian bacterial and parasitic diseases (3 credit. hrs.).
 - VM743: Poultry management (2 credit. hrs.).
 - VM 789: Special topics (2 credit. hrs.).
 - VM791: Seminar (1 credit.hr).
- **Undergraduate Courses in Veterinary Medicine (1997-date):**
 - VM 321: Poultry management (2 credit. hrs.).
 - VM 455: Poultry diseases (3 credit. hrs.).
 - VM 499: Practical training (6 credit. hrs.).
 - VM 342: Veterinary Virology (3 credit. hrs.).
 - VM 591 & 592 Poultry clinics I & II: (4 credit. hrs. each).
 - VM 211: Animal Health (3 credit. hrs.): University elective course (Zoonotic diseases & One Health Concept).

□ **Undergraduate Courses for Animal Production, Faculty of Agriculture (2011- date):**

AP 316: Poultry Diseases & Parasites (2 credit. hrs.).

□ **Undergraduate Courses in Public Health & Allied Health Sciences (1984-1991):**

Introduction to Public Health: (3 credit. hrs.).

Fundamentals of Environmental Health: (3 credit. hrs.).

Environmental Health 1: Solid waste management (3 credit. hrs.).

Environmental Health 2: Food Sanitation (3 credit. hrs.).

Accident Prevention: (2 credit. hrs.).

Radiation and Health: (2 credit. hrs.).

Research Methodology: (2 credit. hrs.).

Environmental Health Field Training I & II: (3 credit. hrs. each).

□ **Medical Microbiology** (2 credit. hrs.theory), Diagnostic Microbiology (2 crd. hrs. practical) for Allied Health sciences colleges at both Ministries of Health and Higher Education (1980-1991).

SUPERVISION OF POSTGRADUATE STUDENTS (Advisor)

1. Mysoon M. Suleiman (2000). Studies on broiler coccidiosis and efficacy of some anticoccidial drugs on *Eimeriatenella* in northern Jordan, MSc thesis, JUST
2. Hisham M. El-Maytah (2001). A study on infectious bursal disease in broiler chicks in Jordan, MSc thesis, JUST
3. Mona MS. Qutifan (August, 2001). Isolation and identification of Marek's disease virus from layer chickens in Jordan, MSc thesis, JUST
4. Rami J. Garabat (2002). Prevalence of coccidiosis in broiler-chicken farms in Jordan, MSc thesis, JUST
5. Amani „Moh“D T“. Ahmad (May, 2003). Sanitary Assessment of Table Eggs at Retail Level in Amman city, MSc thesis in Food Hygiene, JUST
6. Lina, Y. Billeh, (2007). Sero-prevalence of-and Risk factors for West Nile Virus in Human Outpatients, Horses, and Broiler Breeder Chickens in Jordan, MSc thesis, JUST
7. Ali H. Al-Jasem (January, 2010). Detection of *Mycoplasma Synoviae* in boiler chicks by culture, serology and polymerase chain reaction in Al-Mafraq Governorate, MSc thesis, JUST
8. Saad R. Al-Saad (May, 2011). Isolation and Molecular Characterization of Infectious Laryngotracheitis Virus in Layer Flocks in Irbid Governorate, MSc thesis, JUST
9. “Mohmmad Tareq” K.S. Tamimi (March, 2012). Prevalence of *Campylobacter jejuni* in Layer Farms in Northern Jordan, MSc thesis, JUST
10. Abedsalam Masalmeh (May, 2013). Isolation and Molecular Characterization of Infectious Bronchitis Virus in Layer Flocks in Irbid- Northern Jordan, MSc thesis, JUST
11. Anas Y AL-Karasneh. (2018). Detection and estimation of some organochlorine, organophosphorous, pyrethroid and carbamate pesticide residues in imported frozen and local fresh chicken meat and its viscera in Jordan. Approved by University Research Committee.
12. Osama A. Massaud. (2018). Presence and transmission of campylobacter in breeder farm in Jordan. Approved by University Research Committee.
13. Supervising 4 Students for their Clinical Diploma in Poultry Diseases.

SUPERVISION OF POSTGRADUATE STUDENTS (Co-Advisor)

1. Nadim M. Ammarin (Nov., 2002). Isolation of Newcastle disease and infectious bronchitis viruses associated with airsacculitis in broiler chickens in Jordan, MSc thesis, JUST.
2. Ahmad I. Al-Khaldi (May, 2002). Antibody responses of broiler chickens to some Newcastle disease vaccination programs in Jordan, MSc, JUST.
3. Nashat A. Al-Hatamleh (Nov., 2006). Penetration Growth of *Escherichia coli* and *Staphylococcus aureus* in eggs, MSc thesis Food Hygiene, JUST
4. Nasr H. A. Jalboush (May, 2011) Presence of *Gallibacterium anatis* in Respiratory Tract of Chicken Flocks in Jordan, MSc thesis, JUST
5. Mohammed Shafeeq Al-Momani (Dec., 2013). Molecular characterization of very virulent infectious bursal disease virus

EXAMINATION COMMITTEE ON Ph.D or Msc DEGREE Member of the examining committee (external examiner):

1. El-Maytah, H. (July, 2nd 2009). A study on the pathogenicity of [Avian Influenza](#) (H9N2) associated with risk factors in broiler chicks in Jordan. **Ph.D** thesis, Faculty of Veterinary Medicine, Al-Baath University, Hama, Syria
2. Al-Kateb, A. N. (2005). A Survey of mortality in commercial layer farms in the Middle Governorates of Jordan. **M.Sc.**, thesis in Animal Production, University of Jordan, Amman

3. Al-Matar, A. H. (2004). Prevalence of Salmonella in broiler chickens carcasses in Jordan. **M.Sc.**, thesis in Animal Production, University of Jordan, Amman
4. Al-Rashdan, N. M. (2003). Survey of mortality in commercial broiler farms in some Governorate in Jordan. **M.Sc.**, thesis in Animal Production, University of Jordan, Amman
5. Abu Doleh, O. E. (1999). Effect of some pre-slaughter factors on mortality and dressing percentages of broiler chickens. **M.Sc.**, thesis in Animal Production, University of Jordan, Amman

Member of the examining committee (internal examiner at JUST, Irbid)

1. Azzag, NM. (2001). Isolation and characterization of common *Eimeria species* of chicken in Jordan. **M.Sc.**, thesis, JUST, Irbid, Jordan
2. Al-Roussan, DA. (Dec., 2005). Isolation and molecular characterization of *Mycoplasma gallisepticum* from commercial chickens in Northern Jordan. **M.Sc.**, thesis, JUST, Irbid, Jordan
3. Al Garaibeh, GR. (2006). Investigating avian Pneumovirus as a cause of respiratory disease in commercial chickens in Jordan. **M.Sc.**, thesis, JUST, Irbid, Jordan
4. Al-Rifai, RH. (July, 2007). Isolation, Characterization and Antimicrobial Susceptibility of *Clostridium perfringens* from broiler chicken flocks in Northern Jordan. **M.Sc.**, thesis, JUST, Irbid, Jordan
5. Al-Rashdan M. (2009). Antibiotic sensitivity and MIC for anti-mycoplasma drugs against *Mycoplasma gallisepticum* in commercial chickens in Jordan. **M.Sc.**, thesis, JUST, Irbid, Jordan
6. Musallam, I.I., (May, 2009). Presence, Distribution and Effect of Storage and Heat Treatment on Antimicrobial (Enrofloxacin, Ciprofloxacin, Chlortetracycline and Sulfanilamide) residues in Commercial Table Eggs Marketed in Jordan. **M.Sc.**, thesis in Food Hygiene, JUST, Irbid, Jordan
7. Shamoun, M.A., (August, 2009). Infectivity and tissue distribution of avian Pneumovirus in chickens, sparrows and pigeon. **M.Sc.**, thesis, JUST, Irbid, Jordan
8. Hailat, A.M., (August, 2009). Infectivity and tissue distribution of avian *Mycoplasma gallisepticum* in chickens, sparrows and pigeon. **M.Sc.**, thesis, JUST, Irbid, Jordan
9. Thabet, A.M., (April, 2010). Susceptibility determination of resistant *E. coli* strains to different antibiotic combinations. **M.Sc.**, thesis, JUST, Irbid, Jordan
10. Issa, A.T., (May, 2012). Molecular Characteristics of Salmonella *Enterica Serovar Enteritidis* isolated from Poultry Products in Jordan. **M.Sc.**, thesis, JUST, Irbid, Jordan
11. Lubani A. M. (Oct., 2012). Relationship between Reovirus and Coronavirus infection and diarrhea in broiler flocks. **M.Sc.**, thesis, JUST, Irbid, Jordan
12. Rashed A. Al-Seanidi (Nov., 26th, 2013). Tracking changes in *Mycoplasma gallisepticum* field strains in relation to live vaccines. **M.Sc.**, thesis in Poultry Diseases, JUST, Irbid, Jordan

UNIVERSITY AND COMMUNITY SERVICES

1. Responsible for clinical duties in diagnosis and treatment of poultry cases at the Veterinary Health Center (VHS), JUST, and at Irbid Vet. Diagnostic labs, MoA, including on site visit and consultations upon request to the poultry farms since 1997
2. Establishing the Avian diseases research laboratories at JUST and at the Ministry of Agriculture (MoA), Jordan since 1999. (Capacity building in terms of equipment's, supplies, and training veterinarians for different laboratory diagnostic techniques)
3. Academic Advisor for students in Veterinary Medicine, Clinical diploma and MSc in poultry diseases programs since 1997
4. Academic advisor for students in Faculty of Public Health & Allied Health sciences at Yarmouk University and at JUST, 1984-1991

5. Supervised student union election during the years 2002, 2003 and 2017.
6. Member of the following committees: [Avian influenza, Poultry diseases, Poultry health, and Animal feed at the Ministry of Agriculture \(MoA\), Jordan.](#)
7. [Advisor & Member of Avian Influenza Taskforce \(MoA\) for Prevention & Controlling Strategies for Highly Pathogenic Avian Influenza outbreaks in Jordan, since 2005](#)
8. Member of many committees at the University level; University Council and Faculty of the Graduate Studies Council, at the faculty level; Faculty of Veterinary Medicine Council, curriculum, research, graduate studies, planning and development, equipment's, seminars, VHC, student affairs and social, at the Departmental level; Departmental Council, research and the graduate studies
9. Prepared the Prospectus for the Faculty of Veterinary Medicine JUST 2004
10. Participated in the five annual meetings for the steering committees and the workshops for the Middle East Regional Collaboration (MERC) Program USAID. (1999-2003). Project is on Neoplastic and Immunosuppressive Diseases of Poultry, (**speaker**)
11. Establishing the Jordanian Veterinary Poultry Association in Jordan (JVPA) and getting approval as a branch of the World Veterinary Poultry Association (WVPA) in August, 2011.
12. Prepared the brochure for the JVPA in both Arabic and English languages (Nov., 2013).

Consultations:

1. [Qualitative assessment of the risk of introduction & spread of HPAI into Jordan \(FAO\).](#)
2. [Assessment, needs and corrective measures for the current national disease reporting system in Jordan \(FAO\).](#)
3. Technical and economical valuation of diagnostic ELISA kits; Consultation for the Higher Council for Science and Technology, Jordan.
4. Several consultations for poultry enterprises; field & laboratory diagnosis and Poultry Farm Management.

Reviewer for Research Proposals submitted to the following Scientific Research Support Foundations:

1. Research Proposals submitted to American University Beirut (AUB) Research Committee, Lebanon, in 2014.
2. Research Proposals submitted to Scientific Research Council, Ministry of Higher Education, State of Palestine, since 2013.
3. Research Proposals submitted to Scientific Research Support Fund, Ministry of Higher Education, Jordan, since 2011
4. Reports submitted for FAO -Jordan on [Avian Influenza](#) in 2007.
5. Research proposals on [Avian Influenza](#) submitted for the Arab Organization for Agricultural and Development (AOAD) on Avian Influenza Projects in 2005.

Reviewer for the following Scientific Journals

1. [Pakistan Veterinary Journal: Avian Influenza Research manuscripts](#)
2. Jordan Journal of Agricultural Sciences (JJAS). Pure Science, Deanship of Research, Jordan University, Amman, Jordan.
3. ABHATH AL-YARMOUK JOURNAL, Published by the Deanship of Research and Graduate Studies-Yarmouk University/ Irbid-Jordan.
4. Dirasat Journal, Pure Science, Deanship of Research, Jordan University, Amman, Jordan.
5. The Arab Journal for Aired Environment (ACSAD), Damascus, Syria.
6. Editorial Board and Reviewer for Manuscripts submitted for the Veterinarian Journal published in Arabic language by the Veterinary Medical Association in Jordan

Executed Workshops:

1. **February 22-13, 2017. Modern Teaching Methods Workshop.** Academic Development and Quality Assurance Center, Jordan University of Science & Technology, P.O. Box (3030), Irbid - 22110, Jordan , Phone: +962 2 720 1000 ext. 23831 , Fax: +962 2 720 1047, E-mail: adc@just.edu.jo Executed by Corrie Brown, DVM, PhD. ACVP, University of Georgia, USA, Chuck Dodd, DVM, PhD, Fulbright Scholar, JUST Lisa Dodd, MS Education, JUST.
2. **March 20-24, 2016.** Invited by the Department of State to participate in **Avian Influenza Disease Diagnostic Workshop** in Irbid, Jordan. Organized by the U.S. Civilian Research & Development Foundation (CRDF). PPT title: **The Potential threat of Influenza Viruses and Strategies of Prevention & Control.**
3. **Dec. 23, 2013. Influenza viruses in Birds & Humans;** Avian Influenza workshop for Poultry Veterinarians Organized by Jordanian Veterinary Poultry Association A branch of the WVPA, Al-Rasheed Hall Amman, Jordan (**Invited Key Note Speaker**).
4. **November 17-28, 2013.** “Training Course on Diagnosis of Poultry Respiratory Diseases”, NCARE, Amman, Jordan (**Invited Key Note Speaker**).
5. **November 13-24, 2011.** “Training Course on Poultry and Hatchery Management”, NCARE, Amman, Jordan (**Invited Key Note Speaker**).
6. **May 4-7, 2009. WHO** workshop for Establishing an Eastern Mediterranean Regional Network of Institutions on **Avian and Pandemic Influenza Preparedness and Containment**, (WHO Regional for the Eastern Mediterranean), Amman, Jordan (**Invited Speaker**).
7. **January 18-22, 2009.** Technical Workshop for Veterinarians in the Middle East on current status, sampling, isolation, surveillance & diagnostic techniques for **Avian Influenza: "Capacity Building for the Avian Influenza through Technology Transfer and Training"**. **ConFlu Tech EU-FP6 Project Funded by the EU.** Jordan University of Science & Technology Irbid- Jordan (**Invited Key Note Speaker**).

8. **November 24-26, 2008. Surveillance of Avian Influenza Skills-building workshop:** OSRO/ INT/603/USA as an FAO consultant, Amman, Jordan (**Invited Key Note Speaker**).
9. **November 2-6, 2008.** BARD Workshop on the evaluation of novel technologies for reducing environmental spread and efficient eradication strategies for **highly pathogenic avian influenza**. November 2-6, 2008 Antalya, Turkey (**Invited Key Note Speaker**)
10. **August 25-27, 2008.** USDA Regional Live Bird Market (LBM) workshop for **Avian Influenza**, Amman, Jordan, (**Invited Speaker**).
11. **August 7-9, 2007.** "Enhanced Diagnostic Capacity and Control Measure of some **Transboundary Animal Diseases** with emphasis on Pathology & Epidemiology of Johne's Disease/ Paratuberculosis in Jordan, Egypt and Algeria, JUST (**Invited Key Note Speaker**)
12. **November 28, 2006. Preparedness of the pandemic threat of HPAI (H5N1)** in cooperation with FAO and MOA Jordan (**Invited Key Note Speaker**)
13. **June 24-29, 2006.** The use of PCR for the diagnosis of viral and bacterial diseases, AOAD in cooperation with MOA and JUST, Jordan (**Invited Key Note Speaker**)
14. **June 12-15, 2006.** Control of transboundary animal diseases sponsored by AOAD in cooperation with the MOA, Amman (**Invited Key Note Speaker**)
15. **May 28-31, 2006. Avian Influenza diagnosis** sponsored by FAO in cooperation with MOA Amman (**Invited Key Note Speaker**)
16. **May 1-14, 2006. Avian Influenza biosecurity and vaccination** for poultry veterinarians: workshops (duration; one week each). Isra Privet University, Amman (**Organizer and Key Note Speaker**)
17. **Dec. 21, 2005. Avian influenza for poultry farmers** in Irbid. Under the patronage of his Excellency the Governor of Irbid Governorate: JUST Faculty Society in collaboration with Irbid Dept. of Agriculture, Irbid Chamber of Commerce, Jordan (**Invited Key Note Speaker**)
18. **Dec. 3-8, 2005. Highly Pathogenic Avian Influenza.** The Arab Organization for Agricultural and Development, workshop, Amra Hotel, Amman, Jordan (**Invited Key Note Speaker**)
19. **Nov. 4-8, 2001:** "The use of DNA analysis in biomedical sciences (PCR)". Jordan University of Science and Technology, Irbid, Jordan (**Invited Speaker**)
20. **1988:** Broiler production current situation, problems and solutions. JUST, Irbid, Jordan (**Organizer & Key Note Speaker**)
21. **1987.** Medical Education & Planning Workshop, sponsored by JUST, Irbid, Jordan
22. **1984-1986:** Public Health, Occupational Safety and Environmental Health workshops for PHC Physicians. The 3 workshops were held at the Faculty of Public Health and Allied Health Sciences, Yarmouk University, Irbid, Jordan. (**Organizer & Speaker**)
23. **1984-1986:** Public Health workshops for Public Health Inspectors in Jordan. The 3 workshops were held at Yarmouk University, Irbid, Jordan. (**Organizer & Speaker**)
24. **1985.** National Workshop on Research Methodology in Medical Sciences, WHO & Ministry of Health, Amman Jordan, March 1985.

Seminars and lectures on Avian Influenza (H5N1) and the pandemic threat (2005- date) Presented at:

1. **Avian Influenza and the potential threat:** Under the patronage of His Excellency the President of Jordan University of Science and Technology (JUST), Irbid, Oct. 26, **2005**
2. **Prevention of Avian Influenza,** JUST Faculty Society, Irbid, Jordan, Oct 26. **2005**
3. **Avian Influenza Seminars:** Under the patronage of His Excellency the Prime Minister of Jordan, The Jordanian Veterinary Medical Association, Amman, Jordan Oct. 29. **2005**
4. **Public lecture on Avian influenza,** Ramtha City, Jordan. Nov. 27. **2005**
5. **Avian influenza viruses and prevention,** Philadelphia Private University, Nov. 29. **2005**
6. **Prevention of AI for Humans,** Irbid Municipality and Public Health Department, Dec. 4. **2005**
7. **AI virus structure, immunity and candidate vaccines for Jordan,** Jordan Bio-Industries Center (JOVAC), Amman, Dec. 13. **2005**
8. **Avian Influenza Health education** for Jordan National Schools, Irbid, Feb. 27, **2006.**
9. **Avian influenza Public lecture,** Agricultural Technology and Animal Protection Club, JUST, Irbid, March, the 2nd **2006.**
10. **Avian influenza Public lecture,** Ramtha Medical Center, Ramtha Chamber of Commerce, Ramtha, March 5, **2006.**
11. **Avian influenza Public lecture,** Heteen High School, Gumam Town, Irbid, March 6. **2006.**
12. **Avian influenza Public lecture,** Betyafa Municipality, Irbid, March 29. **2006.**
13. **Flu update,** Philadelphia Private University, April, 18, **2006.**
14. Participated in the **Medical day on Avian Influenza** at Dogara Town, April 14, **2007,** Irbid, Jordan, (**Invited Speaker**).
15. Participated in the **scientific day on Avian Influenza** at Isra Private University, April, 25, **2007,** Amman, Jordan, (**Invited Speaker**).
16. **National Seminar on Influenza Viruses** organized by JVPA-WVPA, Dec. 23, **2013,** Amman, Jordan, (**Key Note Speaker & Organizer**).

Seminars and lectures on Swine influenza (H1N1) and the pandemic threat (2009- date) Presented at:

1. **Influenza type-A virus's (H1N1) Update** seminar presented at the Jordanian Veterinary Medical Association, May 5th, **2009,** Amman, Jordan
2. **Influenza type-A viruses (H1N1)** seminar for Public Awareness presented at Es-Sarieh Municipality, May 9th, **2009,** Es-Sarieh, Irbid Governorates, Jordan
3. **Influenza type-A viruses (H1N1)** seminar for Public Awareness presented at Ramtha City, May 17, **2009.**
4. **How to protect Humans from (H1N1) Influenza viruses** presented at JUST Faculty Society, Irbid, May 19, **2009**
5. **Influenza type-A viruses (H1N1): Swine Influenza and the pandemic threat,** presented at the Jordanian Society for Cardiovascular diseases, Irbid, May, 26th, **2009**
6. **Influenza type-A viruses (H1N1): Swine Influenza and the pandemic threat,** presented at Yarmouk University, Irbid, July 6th, **2009**
7. **Influenza type-A virus's (H1N1) Update** seminar presented at the Jordanian Veterinary Medical Association, May 5th, **2009,** Amman, Jordan
8. **Influenza type-A viruses (H1N1)** seminar for Public Awareness presented at Es-Sarieh Municipality, May 9th, **2009,** Es-Sarieh, Irbid Governorates, Jordan
9. **Influenza type-A viruses (H1N1)** seminar for Public Awareness presented at Ramtha City, May 17, **2009.**
10. **How to protect Humans from (H1N1) Influenza viruses** presented at JUST Faculty Society, Irbid, May 19, **2009**
11. **Influenza type-A viruses (H1N1): Swine Influenza and the pandemic threat,** presented at the Jordanian Society for Cardiovascular diseases, Irbid, May, 26th, **2009**
12. **Influenza type-A viruses (H1N1): Swine Influenza and the pandemic threat,** presented at Yarmouk 10

University, Irbid, July 6th, 2009

PARTICIPATION IN INTERNATIONAL CONFERENCES

1. **Al-Natour, MQ, Hananeh WM, Alaboudi, AR, Abo-Shehada MN (Dec. 4-7, 2017). Neck Deformity in Late Dead in Shell Chick embryos associated with Escherichia coli infection.** The 10th Scientific Conference for the (EVPA-WVPA). www.evpa.eg.com , Stella Di Mare Grand Hotel Ain Soukhna, **Egypt** (Speaker).
2. **Al-Natour, MQ. (October 17-19, 2017). Studies on Avian Influenza Viruses in Jordan.** The International Conference on Building Human and Animal Health Capacities “Transformation through Improving Livelihoods” FACULTY OF VETERINARY MEDICINE JORDAN UNIVERSITY OF SCIENCE AND TECHNOLOGY, **Jordan** (Speaker).
<http://www.just.edu.jo/conferences/bhahc/Pages/default.aspx>
3. **Al-Natour, M. Q. (October 17-19, 2017). Is it possible to go forward in reducing antibiotics in poultry?** The International Conference on Building Human and Animal Health Capacities “Transformation through Improving Livelihoods” FACULTY OF VETERINARY MEDICINE JORDAN UNIVERSITY OF SCIENCE AND TECHNOLOGY **Jordan** (Speaker).
<http://www.just.edu.jo/conferences/bhahc/Pages/default.aspx>
4. **Al-Natour, MQ. (Oct. 2016). Evaluation of Bio-security measures adopted against avian pathogens in commercial poultry farms in Jordan.** Presented at The 8th Scientific Conference (Hazards Facing Animal and Poultry Health: Challenges and Opportunities). Organized by Faculty of Veterinary Medicine, Beni-Suef University, Location at both Beni-Suef University & Hurghada, **25th - 29th October 2016 Egypt. (Invited Speaker)**.
5. **Al-Natour, MQ, Amarin, N, Maa“itah, H, Capua, I. Molecular characterization of Newcastle disease virus isolated from recent outbreaks in Jordan and strategies for its control.** Presented at The International Seminar on Poultry Diseases organized by Department of Pathology University of Agriculture, 14-15, **Dec. 2015, Faisalabad, Pakistan. (Invited Speaker)**
6. **Al-Natour, MQ, Ababneh MK, Al-Saad AR, Hananeh WM. Isolation and Molecular Characterization of Infectious Laryngotracheitis Virus from Layer Chicken Farms.** 19th World Veterinary Poultry Association Congress, Cape Town International Convention Centre, South Africa WVPAC2015, 7-11 **Sept. 2015- Cape Town, South Africa.**
7. **Al-Natour, MQ, Al-Aboudi, A.R., Tamimi, MT., Farm level Prevalence of Campylobacter species among Layer Farms in Northern Jordan.** Proceedings of the WVPAC2013 19-23 August 2013 Nantes, France. Abstract: P. 314. XVIII Congress **2013 WVPA, Nantes, France** (Poster).
8. **Al-Natour, MQ and Abo-Shehada, MN. Evaluation of bio-security measures adopted in commercial poultry farms post H5N1 avian influenza outbreak in 2006 in Jordan.** XVII World Veterinary Poultry Association Congress (WVPAC, 2011), August, 14-18, **2011. Cancun, Mexico (Speaker)**.
9. **Al-Natour, MQ, Ahmed, A"MT", Al-Attar, MA, Alaboudi, AR. and Abo-Shehada, MN. Breakout analysis of un-hatched commercial chicken eggs with reference to pathological changes and bacterial isolates of third week dead in shell embryos.** XVI World Veterinary Poultry Association Congress (WVPAC, 2009), November 8th -12th**2009. Marrakesh, Morocco** (Poster).
10. **Al-Natour, MQ. Regulatory Aspects of controlling AI outbreaks and current situation in Jordan.** BARD Workshop on the evaluation of novel technologies for reducing environmental spread and efficient eradication strategies for highly pathogenic avian influenza. November 2-6, **2008 Antalya, Turkey (Invited Speaker)**.
11. **Al-Natour, MQ. Influenza Type A (H5N1) Outbreak in Jordan: Analysis of the Jordanian Control Strategy.** BARD Workshop on the evaluation of novel technologies for reducing

- environmental spread and efficient eradication strategies for highly pathogenic avian influenza. November 2-6, **2008** Antalya, **Turkey (Invited Speaker)**.
12. **Al-Natour, MQ**, Al-Maaitah, HM. and Babiker El-Hage Ali. **Field observations on infectious bursal disease in vaccinated broiler farms in northern Jordan**. The 8th Scientific Conference of the Egyptian Veterinary Poultry Association (EVPA) Egyptian branch of the (WVPA), March, 10-13, **2008**. Cairo, **Egypt**, (Poster).
 13. **Al-Natour, MQ**, Amarin, NM. Al-Attar MA., Capua I. **Isolation of APMV1 and APMV2 associated with airsacculitis from broiler chicken farms in Jordan**. The 15th Congress of the World Veterinary Poultry Association (WVPC2007), Sept.10-15, **2007**, Beijing, **China** (Poster).
 14. **Al-Natour, MQ**, Al-Hatamelh, NA., and Alabodi, AR. **Influence of Level of Contamination on Growth and Penetration of *Escherichia coli* O157:H7 and *Staphylococcus aureus* at Different Storage Temperature in Experimentally Inoculated Table Eggs**. The 15th Congress of the World Veterinary Poultry Association (WVPC2007), Sept.10-15, **2007**, Beijing, **China** (Poster)
 15. **Al-Natour, MQ**, Amarin, NM, Al-Maaitah, HM, and Capua I. **Isolation and characterization of type-A avian influenza viruses from poultry flocks in Jordan**. The 143rd AVMA Annual Convention, July 15-19, **2006**, Honolulu, Hawaii, **USA** (Poster).
 16. Monne I, Cattoli, G., Mazzacan, E., Amarin, NM., **Al-Natour, MQ.**, Capua, I. **Phylogenetic analysis of H9N2 AI viruses isolated in Jordan in 2003**. The 6th international Symposium on Avian Influenza, St John's College, 3-6, April, **2006**, Cambridge, **UK** (Poster).
 17. **Al-Natour, M.Q.** **Restriction fragment length polymorphism analysis of Jordanian field strains of Infectious Bursal Disease Virus**. The XIII Congress of the World Veterinary Poultry Association AVMA/AAAP/WVPA, July 19-23, **2003**, Denver, Colorado, **USA (Speaker)**
 18. The XII International Congress of the World Veterinary Poultry Association, Jan 28-Feb.1st, **2002**, Cairo, **Egypt**.
 19. The 51st North Central Avian Disease Conference and Symposium on Emerging and Re-Emerging Diseases October 8-10, **2000**, Columbus, Ohio, **USA (Speaker)**
 20. The 4th Conference of the OIE Regional Commission for the Middle East, 22-25 September **1997**, Observer; Representing JUST. Amman, **Jordan**.
 21. The 47th North Central Avian Disease Conference & Symposium on Making and Evaluating Health Management Decisions, Sept. 29-Oct. 1, **1996**, Columbus, Ohio, **USA**.
 22. **Al-Natour, MQ**, Ward LA, Saif YM, Stewart-Brown B, Keck LD. **Effect of different levels of maternally derived antibodies on protection against infectious bursal disease virus**. The 46th North Central Avian Disease Conference & Symposium on New Vaccines and Delivery Systems, Sept. 17-19, **1995**, Minneapolis/Bloomington, Minnesota, **USA (Speaker)**
 23. The 44th North Central Avian Disease Conference & Symposium on Poultry Therapeutics, Oct.3-5, **1993**, Columbus, Ohio, **USA**
 24. **Natour, MQ**, Isolation and identification of *Vibrio Cholera* serotypes from in-patients at Prices Basma Hospital, (MoH): Irbid Jordan. Presented at Hatch Symposium (Sept. **1983**): The Graduate School of Public Health, University of Pittsburgh, PA, **USA**.

PARTICIPATION IN LOCAL AND REGIONAL CONFERENCES

1. **Al-Natour, MQ. (October 17-19, 2017). Studies on Avian Influenza Viruses in Jordan.** The International Conference on Building Human and Animal Health Capacities “Transformation through Improving Livelihoods” FACULTY OF VETERINARY MEDICINE JORDAN UNIVERSITY OF SCIENCE AND TECHNOLOGY, **Jordan** (Speaker).
<http://www.just.edu.jo/conferences/bhahc/Pages/default.aspx>
2. **Al-Natour, M. Q. (October 17-19, 2017). Is it possible to go forward in reducing antibiotics in poultry?** The International Conference on Building Human and Animal Health Capacities “Transformation through Improving Livelihoods” FACULTY OF VETERINARY MEDICINE JORDAN UNIVERSITY OF SCIENCE AND TECHNOLOGY **Jordan** (Speaker).
<http://www.just.edu.jo/conferences/bhahc/Pages/default.aspx>
3. **Al-Natour, MQ. Studies on Influenza Viruses:** The Fifth Arab Poultry & Feed conference, Amman, Jordan, **Dec. 8-9, 2014. (Key Note Speaker)** Organized by the Arab Union for Food Industry (ARAB FOOD), under the Patronage of His Excellency Prime Minister of Jordan.
4. **Al-Natour, MQ. Avian Respiratory viruses in Commercial Birds:** The First Karak Governorate Agricultural Conference, Karak, Jordan, **June. 26, 2014 (Key Note Speaker):** Under the Patronage of His Excellency the President of the Jordanian Congress.
5. **Al-Natour, MQ. Studies on Influenza Viruses:** The 8th Scientific Conference of the Jordanian Veterinary Association, Al-Hussein Cultural Center Amman Municipality, Amman, **Jordan, Oct., 4-6, 2009 (Key Note Speaker).**
6. **Al-Natour, MQ. Efforts of the Arab Organization for Agricultural and Development (AOAD) Against Bird Flu:** The Arab-European Veterinary Conference, Amman, **Jordan, 2007** (Scientific committee, Organizer and **Invited Speaker**).
7. The Arab-European Veterinary Conference, Amman, **Jordan, 2006.** (Scientific committee & Organizer)
8. The Arab-European Veterinary Conference, Amman, **Jordan, 2004** (Scientific committee & **Speaker**)
9. The International Conference on Small Ruminants held at JUST, **Jordan, 1999** (Organization committee)
10. The Scientific Veterinary Conference of the Iraqi Veterinary Medical Syndicate **1998.** Bagdad, **Iraq,** October, 26-28 (**Speaker**)
11. The Second Scientific Day for Jordan Veterinary Syndicate, **1988.** (Speaker & Organization committee), Irbid, **Jordan**
12. The Second Medical and Pharmaceutical Scientific Conference, **1988:** Faculty of Medicine, JUST, Irbid, **Jordan (Speaker & Organization Committee)**
13. The First Scientific Day for Jordan Veterinary Syndicate, Irbid branch, on “Zoonotic Diseases “held at Yarmouk University, Irbid, **Jordan (Speaker, Organizer & Chairperson of Public Health Session), April, 1986.**
14. The Arab Veterinary Conference, Jordan University, Amman, **Jordan, Nov., 1986.**
15. The Arab Veterinary Conference, Jordan University, Amman, **Jordan, May, 1985.**
16. Union of Arab Biologists Conference, Jordan University, Amman, **Jordan Nov., 1984.**

International Awards:

1. The International Seminar on Poultry Diseases organized by Department of Pathology, Faculty of Veterinary Medicine, University of Agriculture Faisalabad,. **Dec. 14-15, 2015. Pakistan.**
2. The World Veterinary Poultry Association (WVPA): WVPC, **2011, Cancun, Mexico.**
3. BARD Workshop Award on the evaluation of novel technologies for reducing environmental spread and efficient eradication strategies for highly pathogenic avian influenza November 2-6, **2008 Antalya, Turkey.**
4. The 143rd AVMA Annual Convention, July 15-19, **2006, Honolulu, Hawaii, USA**
5. **Dr. Al-Natour** received certificate: **Science Direct Top 25** our paper RANKED 14TH ON THE TOP 25. **SERO-PREVALENCE OF AVIAN INFLUENZA AMONG BROILER-BREEDER FLOCKS IN JORDAN. PREVENTIVE VETERINARY MEDICINE - VOLUME 70, ISSUES 1-2**

Local Awards:

1. The Fifth Arab Poultry & Feed conference, Amman, Jordan, **Dec. 8-9, 2014.** Organized by the Arab Union for Food Industry (ARAB FOOD).
2. The First Karak Governorate Agricultural Conference, Karak City, **Jordan, 2014.**
3. The 8th Scientific Conference of the Jordanian Veterinary Association Award, Amman, **Jordan, 2009.**
4. Arab Organization for Agricultural and Development (AOAD) on Avian Influenza, Amman, **Jordan, 2007.**
5. The Arab-European Veterinary Conference, Amman, **Jordan, 2006.**
6. JOVAC, Jordan. The 6th international Symposium on Avian Influenza, St John's College, 3-6, April, **2006, Cambridge, UK**
7. The Arab-European Veterinary Conference, Amman, **Jordan, 2004.**
8. **Jordan University of Science & Technology: Outstanding Scholarship for Ph.D. Degree in Avian Diseases at: The Ohio State University, OH, USA.**
9. **14. Yarmouk University: Outstanding Scholarship for MPH degree in Public Health at: The Graduate School of Public Health, University of Pittsburgh, PA, USA.**

PUBLICATIONS

Thesis:

1. **Al-Natour, MQ.** Vaccination of chicks against infectious bursal disease virus. (**Ph.D. Dissertation: December, 1996**). The Ohio State University, Columbus, OH, Advisor: Y.M. Saif.
2. **Al-Natour, MQ.** Cholera as an environmental health problem in Jordan. (**M.P.H. Thesis: August, 1984**). The Graduate School of Public Health, University of Pittsburgh, PA, Advisor: J. Sykora.

Publications in International Scientific Journals:

Accepted Manuscripts:

3. **Al-Natour MQ,** Akram R. Al-Aboudi, Musa A. Alshehabat, “MT” K. Tamimi. Prevalence and risk factors associated with *Campylobacter* among layer farms. (**2017**) in Editing; Veterinary Science Development Journal.

Published Papers:

4. **Al-Zghoul, MB; Al-Natour, MQ; Dalab, AS; Alturki, OI; Althnaian, T; Al-ramadan, SY; Hannon, KM (2016).** Thermal Manipulation Mid-term Broiler Chicken Embryogenesis: Effect on Muscle Growth Factors and Muscle Marker Genes. Brazilian Journal of Poultry Science (Revista Brasileira de Ciência Avícola) Rev. Bras. Cienc. Avic. vol.18 no.4 Campinas Oct./Dec. 2016.ISSN 1516-635X Oct - Dec 2016 / v.18 / n.4 / 607-618. <http://dx.doi.org/10.1590/1806-9061-2016-0260>. Jan., 2017.
5. Al-Rukibat RK, Al-Zghoul MB, Hananeh WM, **Al-Natour MQ,** Abu-Basha EA. (**2016**). [Thermal manipulation during late embryogenesis: Effect on body weight and temperature, thyroid hormones, and differential white blood cell counts in broiler chickens.](#) Poult Sci. 2016 Sep 1. pii: pew298. [Epub ahead of print] PMID: 27587725 [DOI:10.3382/ps/pew298](https://doi.org/10.3382/ps/pew298)
6. **Al-Natour MQ,** Alaboudi AR, Osaili TM, Obaidat MM. (**2016**). [Resistance of Campylobacter jejuni Isolated from Layer Farms in Northern Jordan Using Microbroth Dilution and Disc Diffusion Techniques.](#) J Food Sci. 2016 Jul;81(7):M1749-53. doi: 10.1111/1750-3841.13363. Epub 2016 Jun 14. PMID:27300500
7. Osaili TM, Al-Nabulsi AA, Jaradat Z, Shaker RR, Alomari DZ, Al-Dabbas MM, Alaboudi AR, **Al-Natour MQ,** Holley RA. (**2015**). [Survival and growth of Salmonella Typhimurium, Escherichia coli O157:H7 and Staphylococcus aureus in eggplant dip during storage.](#) Int J Food Microbiol. 2015 Apr 2;198:37-42. doi: 10.1016/j.ijfoodmicro.2014.12.025. Epub 2014 Dec 27.PMID:25590259
8. **Al-Natour, M. Q.** and Abo-Shehada M. N. (**2012**). [H5N1 influenza outbreak during March 2006 in Jordan.](#) Health, Vol. 4 No.12, 1371-1379. DOI: 10.4236/health.2012.412199. Health (Irvine), USA.

9. Ababneh MM, Dalab AE, Alsaad SR, Al-Zghoul MB, **Al-Natour MQ**. (2012). [Molecular characterization of a recent Newcastle disease virus outbreak in Jordan](#). *Research in Veterinary Science*, 93(3):1512-4. doi: 10.1016/j.rvsc.2012.03.004. Epub 2012 Apr 4. [PubMed - indexed for MEDLINE]. PMID: 22480768 DOI: 10.1016/j.rvsc.2012.03.004
10. **Al-Natour MQ**, Alaboudi AR, Al-Hatamelh NA, Osaili TM. (2012). [Escherichia coli O157:H7 facilitates the penetration of Staphylococcus aureus into table eggs](#). *J Food Sci.*;77(1):M29-34. doi: 10.1111/j.1750-3841.2011.02483.x. Epub 2011 Dec 2. PMID: 22132995.
11. Wan H, Sorrell EM, Song H, Hossain MJ, Ramirez-Nieto G, Monne I, Stevens J, Cattoli G, Capua I, Chen LM, Donis RO, Busch J, Paulson JC, Brockwell C, Webby R, Blanco J, **Al-Natour MQ**, Perez DR. (2008). [Replication and transmission of H9N2 influenza viruses in ferrets: evaluation of pandemic potential](#). *PLoS One*. 2008 Aug 13;3(8):e2923. PMID: 18698430. (Highly accessed on *PLoS ONE* Journal site & CNN internet Media coverage worldwide)[PubMed - indexed for MEDLINE].
12. Gharaibeh S, Mahmoud K, **Al-Natour M**. (2008). [Field evaluation of maternal antibody transfer to a group of pathogens in meat-type chickens](#). *Poult Sci*. 2008 Aug;87(8):1550-5. PMID: 18648048 [PubMed - indexed for MEDLINE].
13. Yassine HM, **Al-Natour MQ**, Lee CW, Saif YM. (2007). [Interspecies and intraspecies transmission of triple reassortant H3N2 influenza A viruses](#). *Virol J*. 2007 Nov 28;4:129. PMID: 18045494 [PubMed - indexed for MEDLINE]. (Highly accessed on the [Virology Journal site](#)).
14. Monne I, Cattoli G, Mazzacan E, Amarin NM, Al Maaitah HM, **Al-Natour MQ**, Capua I. (2007). [Genetic comparison of H9N2 AI viruses isolated in Jordan in 2003](#). *Avian Dis*. 2007 Mar;51(1 Suppl):451-4. PMID: 17494605 [PubMed - indexed for MEDLINE].
15. Alboqai OK, Suleiman AA, **Al-Natour MQ**, Al-Hourani HM, Abuirmeileh NM. (2006). [Estimated risk of coronary heart disease in obese adult males in Northern Jordan](#). *Saudi Med J*. 2006 May;27(5):681-6. PMID: 16680260 [PubMed - indexed for MEDLINE].
16. **Al-Natour, M.Q.**, (2006). [Restriction Fragment length Polymorphism analysis of Jordanian Field Strains of Infectious bursal Diseases Virus](#). *Assiut Vet. Med. J*. Jan;52(108): 289-299.
17. **Al-Natour MQ**, Abo-Shehada MN. (2005). [Sero-prevalence of avian influenza among broiler-breeder flocks in Jordan](#). *Prev Vet Med*. 2005 Aug 12;70(1-2):45-50. Epub 2005 Mar 21. PMID:15967241 [PubMed - indexed for MEDLINE]. ([Considered among the top 25 hottest articles within the Science Direct](#)).

18. Ashraf S, Abdel-Alim G, **Al-Natour MQ**, Saif YM. (2005). [Interference between mild and pathogenic strains of infectious bursal disease virus in chickens](#). *Avian Dis.* 2005 Mar;49(1):99-103. PMID: 15839420 [PubMed - indexed for MEDLINE].
19. **Al-Natour, MQ**, Alshawabkeh, K. M., (2005). [Using varying levels of formic acid to limit growth of Salmonella gallinarum in contaminated broiler Feed](#). *Asian-Aust. J. Anim. Sci.* Mar; 18(3): 390-395.
20. **Al-Natour MQ**, Ward LA, Saif YM, Stewart-Brown B, Keck LD., (2004). [Effect of different levels of maternally derived antibodies on protection against infectious bursal disease virus](#). *Avian Dis.* 2004 Jan-Mar;48(1):177-82. PMID: 15077812 [PubMed - indexed for MEDLINE]
21. **Al-Natour MQ**, Suleiman MM, Abo-Shehada MN. (2002). [Flock-level prevalence of Eimeria species among broiler chicks in northern Jordan](#). *Prev Vet Med.* 2002 Apr 15;53(4):305-10. PMID: 11937237 [PubMed - indexed for MEDLINE].
22. Hassan MK, **Al-Natour MQ**, Ward LA, Saif YM. (1996). [Pathogenicity, attenuation, and immunogenicity of infectious bursal disease virus](#). *Avian Dis.* 1996 Jul-Sep;40(3):567-71. PMID: 8883785 [PubMed - indexed for MEDLINE].
23. Abo-Shehada MN, Al-Rawashdeh O, **Al-Natour M.** (1991). [Traumatic pericarditis in an Awassi lamb](#). *Br Vet J.* 1991 Jan-Feb;147(1):78-81. PMID: 2018920 [PubMed - indexed for MEDLINE]. Now it is known as The Veterinary Journal

Books

1. Abo-Shehada, M.N., **Al-Natour, M.Q.** 2007. [Avian Flu \(in Arabic\) 2nd Edition](#). Al-IsaraUniversity Publications, Amman, Jordan.
2. Abo-Shehada, M.N., **Al-Natour, M.Q.** 2006. [Avian Flu \(in Arabic\) First Edition](#). Al-IsaraUniversity Publications, Amman, Jordan.

Referees upon Request