

**Anas Abdelqader**

Dept. of Animal Production  
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**Current position:**

Head of Animal Production Department, the University of Jordan, Amman-Jordan.

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**Short biography:**

I am a professor of Animal Science at the University of Jordan. My main interest is to find practical methods to sustainable enhancement of the health and well-being of farm animals to promote food quality and people health. My focal point is healthy animals' gut means healthy humans. My major research interests are studying the factors influencing the performance and gut health.

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**EDUCATION:**

**PhD. 2007:** Livestock Production Systems, University of Göttingen, Germany.  
Dissertation focused on intestinal nematodes in chickens.

**MSc. 2000:** Poultry Production under Hot Climate, the University of Jordan, Amman, Jordan  
Thesis focused on impact of heat stress on chickens.

**BSc. 1997:** Animal Production, Jordan University of Science and Technology, Irbid, Jordan

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**RESEARCH INTEREST:**

- Novel applications in feed enzymes
- Improving gut health and integrity in farm animals.
- Improving management practices for sustainable animal farming.
- Interactions of livestock production systems and animal performance, health, welfare and product quality.
- Alternative feedstuff for animals and their impacts on health and performance.
- Evaluate organs functions which are in correlation with animal vitality and health.

## **EXPERIENCE:**

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- Professor, The University of Jordan, March, 2021.
- Associate Professor, The University of Jordan, March, 2017 – March, 2021.
- Assistant Professor, The University of Jordan, April, 2010 – February, 2017.
- Assistant Professor, Jerash Private University, Jordan. January, 2010 – May, 2010.
- Commercial consultant for livestock production, Watania Agriculture Co., Saudi Arabia, November, 2008 – December, 2009.
- Lecturer, Faculty of Agriculture, Mutah University, Jordan. January, 2001 – March, 2003.

## **SKILLS:**

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- Extensive experience and understanding of experimental design and statistical analysis using SAS software.
- Running scientific trials on different farm animals species at large scale following the European Union regulations.
- Running field trials on the safety and tolerance of feed additives for the legalisations and registration purposes.
- Using ELSIA to measure different blood parameters, metabolites, immune parameters and several biomarkers.
- Histology of all body organs.
- Feed biochemistry and digestibility trails.
- Identification of helminthes species and conducting different lab protocols in parasitological methods.
- Measuring and analysis of different parasitological and epidemiological parameters.
- Extensive experience in animal handling and care.

## **SELECTED PUBLICATIONS (Peer-Reviewed Journals):**

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Osama Dawud, **Anas Abdelqader**, Abdur-Rahman Al-Fataftah. (2021). Effects of Feeding Strategies and Feed Additives on Combating Heat Stress in Broiler Chickens. *Agrociencia Journal* 55(10): 1-35.

**Anas Abdelqader**, Mohannad Abuajamieh, Firas Hayajneh, Abdur-Rahman Al-Fataftah. (2020). Probiotic Bacteria Maintain Normal Growth Mechanisms of Heat Stressed Broiler Chickens. *Journal of Thermal Biology*. (2020):102654.

Abuajamieh, Mohannad, **Anas Abdelqader**, Rabie Irshaid, Firas MF Hayajneh, Ja'far M. Al-Khaza'leh, and Abdur-Rahman Al-Fataftah. (2020). Effects of Organic Zinc on the Performance and Gut Integrity of Broilers Under Heat Stress Conditions. *Archives Animal Breeding* 63(1): 125-135.

**Anas Abdelqader**, Abdur-Rahman Al-Fataftah, Gürbüz Das. **2013**. Effects of dietary *Bacillus subtilis* and inulin supplementation on performance, eggshell quality,

intestinal morphology and microflora composition of laying hens in the late phase of production. *Animal Feed Science and Technology*, 179(1-4): 103– 111.

**Anas Abdelqader**, Mohannad Abuajamieh, Hana Hammad, Abdur-Rahman Al-Fataftah. 2017. Effects of Dietary Butyrate Supplementation on Intestinal Integrity of Heat-Stressed Cockerels. *Journal of Animal Physiology and Animal Nutrition*, 101: 1115–1121.

**Anas Abdelqader**, Use of Dietary Probiotics to Improve Laying Hen Performance. In: Patricia Hester, editors: *Egg Innovation and Strategies for Improvement*, Oxford, Elsevier Inc. Academic Press; 2017, p. 281-296. (Book Chapter).

**Anas Abdelqader**, Abdur-Rahman Al-Fataftah. 2016. Effect of Dietary Butyric Acid on Performance, Intestinal Morphology, Microflora Composition and Intestinal Recovery of Heat-Stressed Broilers. *Livestock Science*, 183: 78–83.

Alhanof Alhenaky, **Anas Abdelqader**, Mohannad Abuajamieh, Abdur-Rahman Al-Fataftah. 2017. The effect of heat stress on intestinal integrity and Salmonella invasion in broiler birds. *Journal of Thermal Biology*, Volume 70, Part B: 9-14.

Abdur-Rahman, Al-Fataftah and **Anas Abdelqader**. 2014. Effects of dietary *Bacillus subtilis* on heat-stressed broilers performance, intestinal morphology and microflora composition. *Animal Feed Science and Technology*, 198: 279-285.

Abuajamieh, Mohannad, **Anas Abdelqader**, Mohammad Al-Qaisi, Abdur-Rahman Al-Fataftah, and Tawfiq M. Al-Antary. (2020). Effect of Bentonite on the Performance and Gut Integrity of Lambs under Heat Stress Conditions. *Fresenius Environmental Bulletin* 29(6):4799-4806.

Ja'far Al-Khaza'leh , Rami Kridli , Belal Obeidat , Shahera Zaitoun and **Anas Abdelqader**. (2020). Effect of Maternal Water Restriction on Sexual Behavior, Reproductive Performance, and Reproductive Hormones of Male Rat Offspring. *Animals*. 10(3)379, 1-14.

Firas Hayajneh; **Anas Abdelqader**, Mufeed Alnimer; Jafar Alkhazaleh. 2020. The role of high-grade bentonite powder in coccidiosis and its effects on feed conversion ratio and blood parameters in broiler chicken. *Polish Journal of Veterinary Sciences*, 23(1): 97-107.

Irshaid, R., **A. Abdelqader**, M. Abuajamieh, F. Hayajneh. (2019). Effect of Feeding Rumen-protected Methionine with Calcium Salts and Yeast on Productive Performance of Lactating Ewes when Fed Barley Straw. *Journal of Experimental Biology and Agricultural Sciences* 7 (2), 233-242.

Hayajneh, F. M. F., Jalal, M., Zakaria, H., **Abdelqader, A.**, & Abuajamieh, M. 2018. Anticoccidial effect of apple cider vinegar on broiler chicken: an organic treatment

to measure anti-oxidant effect. Polish Journal of Veterinary Sciences. 21(2), 361-369.

**Anas Abdelqader**, Rabie Irshaid, Mohammad Jihad Tabbaa, Mohannad Abuajamieh, Hosam Titi, Abdur-Rahman Al-Fataftah. 2017. Factors influencing Awassi lambs survivorship under fields conditions. Livestock Science, 199: 1–6.

Firas Hayajneh, Rabie Irshaid, **Anas Abdelqader**. 2016. Effects of pregnancy and disease stress on the antioxidative capacity of sheep and goat. Journal of Experimental Biology and Agricultural Sciences. 4(V-Suppl.)

Khalil Alshawabkeh, N.I. Alkhalaileh, **Anas Abdelqader**, Abdur-Rahman Al-Fataftah and Saqer M. Herzallah. 2015. Occurrence of Aflatoxin B1 in Poultry Feed and Feed Ingredients in Jordan Using ELISA and HPLC. American-Eurasian Journal of Toxicological Sciences, 7 (4): 316-320.

**Anas Abdelqader**, Abdur-Rahman Al-Fataftah. 2014. Thermal acclimation of broiler birds by intermittent heat exposure. Journal of Thermal Biology, 39 (1): 1–5.

**Anas Abdelqader** , Rabie Irshaid, Abdur-Rahman Al-Fataftah. 2013. Effects of dietary probiotic inclusion on performance, eggshell quality, cecal microflora composition, and tibia traits of laying hens in the late phase of production. Tropical Animal Health and Production, Vol. 45(4): 1017-1024.

Abdur-Rahman, Al-Fataftah and **Anas Abdelqader**. 2013. Improving performance of laying hens in hot regions by desert coolers. International Journal of Poultry Science, 12(10): 590-595.

Abdur-Rahman Al-Fataftah and **Anas Abdelqader**. 2013. Effect of *Salix babylonica*, *Populus nigra* and *Eucalyptus camaldulensis* extracts in drinking water on performance and heat tolerance of broiler chickens during heat stress. American-Eurasian Journal of Agricultural & Environmental Sciences, 13(10): 1309-1313.

**Anas Abdelqader**, Bassam Qarallah, Diya Al-Ramamneh, Gürbüz Das. 2012. Anthelmintic effects of citrus peels ethanolic extracts against *Ascaridia galli*. Veterinary Parasitology, 188: 78– 84.

**Anas Abdelqader**, Azzam Al Yacoub, Matthias Gaulty. 2012. Factors influencing productive longevity of Awassi and Najdi ewes in intensive production systems at arid regions. Small Ruminant Research, 104: 37– 44.

**Abdelqader, A.**, Gaulty M., Wollny, C.B.A., Abo-Shehada, M. N. 2008. Prevalence and burden of gastrointestinal helminthes among local chickens in northern Jordan, Preventive Veterinary Medicine, 85: 17-22.

**Abdelqader, A.**, Wollny, C.B.A., Gaulty M., 2008. On-farm investigation of local chicken biodiversity and performance potentials in rural areas of Jordan. Animal Genetic Resources Information, 43: 49-58.

**Abdelqader, A.,** Gauly, M., Wollny, C.B.A., **2007.** Response of two breeds of chickens to *Ascaridia galli* infections from two geographic sources, *Veterinary Parasitology* 145: 176–180.

**Abdelqader, A.,** Wollny, C.B.A., Gauly M., **2007.** Characterization of local chicken production systems and their potential under different levels of management practice in Jordan, *Tropical Animal Health and Production*, 39: 155–164.

Salim S. Al-Taleb, Mutassim M. Abdelrahman, Anas Abdelqader, **2006.** Efficiency of microbial phytase on the phytate-phosphorus utilization by broiler from 3 to 7 weeks of age. *Jordan Journal of Agricultural Sciences*, 33(2): 93-101.

## CONFERENCES PUBLICATIONS:

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**Abdelqader, A.,** 2013. Single and combined effects of *Bacillus subtilis* and inulin on performance of late-phase laying hens. EAAP 2013 (European Federation of Animal Science). The 64th Annual Meeting, 26 – 30 August 2013, Nantes, France.

**Abdelqader, A.,** 2013. Factors associated with Awassi lambs mortality in two production systems in Jordan. EAAP 2013 (European Federation of Animal Science). The 64th Annual Meeting, 26 – 30 August 2013, Nantes, France.

**Abdelqader, A.,** 2011. The Role of Socio-Cultural Issues in the Sustainability of Camel Production in Jordan. Camel Conference, 24-25th May 2011. University of London, UK.

**Abdelqader, A.,** 2008. “Ensuring Food Quality within the Value-Added Chain: Demands under Global Conditions”. Expert workshop, 21-26.07.2008. University of Göttingen, Göttingen, Germany.

**Abdelqader, A.,** Wollny, C.B.A., Gauly, M., 2005. Mortality Constrains Production Efficiency in Smallholder Local Chickens Production in Jordan. Deutscher Tropentag. Berlin, Germany.

[http://www.tropentag.de/2005/abstracts/links/Abdelqader\\_rx8pd4Ce.pdf](http://www.tropentag.de/2005/abstracts/links/Abdelqader_rx8pd4Ce.pdf) .

**Abdelqader, A.,** Wollny, C.B.A., 2004. Adaptive Traits and Characterization of the Production System of Local Chickens in Jordan. Deutscher Tropentag. Hohenheim, Germany. [http://www.tropentag.de/2004/abstracts/links/Abdelqader\\_MsiHQmLp.pdf](http://www.tropentag.de/2004/abstracts/links/Abdelqader_MsiHQmLp.pdf)

## FUNDED RESEARCH PROJECTS

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- Improving the nutritive value of the seeds of halophyte *Salicornia bigelovii* for laying hens by dehulling or aqueous heat treatment. Funded by: **International Foundation for Science IFS**, Sweden. 2012-2013. (12,000 \$).

- Evaluating the nutritive value and the prebiotic activity of the Seaweed *Ulva lactuca* for broiler Chickens. Funded by: **International Foundation for Science IFS**, Sweden. 2018-2020. (12,000 \$).
- Impact of heat stress on intestinal mucosal integrity in broiler chickens and effect of feed additives to enhance intestinal mucosal restitution and homeostasis. Funded by: Deanship of Academic Research, The University of Jordan, 2015-2017. (43,000 \$).
- Effects of organic zinc on the performance and gut integrity of sheep and poultry under heat stress conditions. Funded by: Deanship of Academic Research, The University of Jordan, 2016-2018. (60,000 \$).
- Investigation of Factors Influencing Awassi Lambs Survivorship under Extensive and Semi-Extensive Production Systems. Funded by: **Scientific Research Support Fund SRSF**, Ministry of Higher Education, Jordan. 2011-2014. (100,000 \$).

## **TEACHING EXPERIENCE**

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### **Taught these courses for undergraduates (BSc. level):**

- Farm Animal Physiology.
- Genetic Improvement of Farm Animals.
- Poultry Production.
- Poultry Breeder Production.
- Principles of Animal Production.
- Animal Breeding.
- Poultry Practical Management.

### **Taught these courses for graduates (PhD level):**

- Integrated Management of Poultry Enterprises.
- Zoonotic Diseases.
- Advance Graduate Seminar.

## **POSTGRADUATE (MSc.) SUPERVISION:**

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| <b>Thesis Titles</b>  | <b>Student Name</b>         | <b>Year</b> |
|---|-----------------------------|-------------|
| Effect of Heat Stress on Intestinal Integrity and Morphology in Broiler Chickens  | Alhnoof M. Alhenaky (M.Sc.) | 2016        |
| Structural and physiological study of the effect of bentonite on the deoxynivalenol (DON)-induced toxicity in domestic fowl | Fatima Kareem (M.Sc.)       | 2019        |
| Effect of Casein on Intestinal Health of  | Lubna Natshe (M.Sc.)        | 2020        |

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| Coccidia Challenged Broiler Chickens   |                          |                  |
| Effect of Colostrum Milk Powder on Intestinal Health of Coccidia Challenged Broiler Chickens   | Esra Abdul-Dayem (M.Sc.) | 2020             |
| Effect of Colostrum Milk Powder on Intestinal Health of Heat Stressed Broiler Chickens   | Bothina Kawldeh (M.Sc.)  | 2020             |
| Nutritional strategies to alleviate heat stress in broiler chickens  | Osama Daoud (PhD)        | 2021             |
| Using Zinc, Betaine and Yeasts Cell-Wall to Combat Heat Stress on Milking Dairy Cattle Performance in an Arid to Semi-Arid Region                  | Ola Mahasneh (PhD)       | 2021-In progress |
| Efficacy of Probiotics and Essential Oils as Alternaitves to Antibiotics in Necrotic Enteritis Infected Broiler Chickens                           | Wala Al-Younes (PhD)     | 2021-In progress |
| Intestinal Immune Gene Expression in Response to a Phyto Formula used as an Alternative to Anticoccidials in Coccidiosis Infected Broiler Chickens | Ala Hilat (PhD)          | 2021-In progress |

### COMMITTEE MEMBER FOR MSc THESIS DEFENSE:

| No | University                                  | Thesis Titles  | Student Name    | Year |
|----|---|--|-----------------|------|
| 1. | Jordan University of Science and Technology | Genetic evaluation of Awassi sheep for some growth traits                                    | Feizal H. Iye   | 2014 |
| 2. | The University of Jordan                    | Effect of supplementing organic trace minerals on performance and egg quality in laying hens | Nuha Dwaik      | 2015 |
| 3. | Jordan University of Science and Technology | Utilizaing crossbreeding system to improve growth and carcass traits in Awassi lambs         | Sofian S. Kolib | 2015 |

|    |   |   |                   |      |
|----|---|---|-------------------|------|
| 4. | Jordan University of Science and Technology | Growth performance and meat characteristics of the first awassi backcross that holds the callipyge gene                                       | Ahmad Al-Amareen  | 2016 |
| 5. | The University of Jordan                    | Effect of Dried Yeast Culture and Yeast Extract Supplementation on Broiler Chicken Growth, Carcass Characteristics, and Intestinal Morphology | Shadi Al-Hantooli | 2017 |

### **AWARDS:**

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- German Academic Exchange Service (DAAD), Full PhD scholarship for 2003–2007.
- International PhD Program for Agricultural Science in Goettingen (IPAG), Fellowship for distinguished students, 2004–2007.

### **TRAINING COURSES:**

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- Proposal Writing Courses for Research Grants (ProGrant). Provided by University of Colon and DAAD, Germany. Took place at American University of Beirut, Lebanon, 1 – 5 May, 2019 and 1 – 8 December 2019.
- Blended Learning, Accreditation and Quality Assurance Centre, The university of Jordan, Amman, 15 April, 2019.
- Interactive Learning to Enhance Students Participations, Accreditation and Quality Assurance Centre, The university of Jordan, Amman, 15 February, 2018.
- Exams Development and Analyses using SPSS, Accreditation and Quality Assurance Centre, The university of Jordan, Amman, 29 November, 2018.
- Student Evaluation using Portfolio Models, Accreditation and Quality Assurance Centre, The university of Jordan, Amman, 16 April, 2017.
- Ethics in High Schools learning, and teaching skills based modern learning theories, The University of Jordan, Amman, Jordan 21-28, August, 2016.
- German language: intensive courses at Goethe Institute, Göttingen. 1 April 2003 – 30 September 2003. Passed DSH exam by University of Göttingen, Germany.
- Biometrical Procedures in animal breeding with application of Program Packet SAS, Gesellschaft für Tierzuchtwissenschaft (GfT), Würzburg, Germany, 25 March – 1 April, 2004.
- Veterinary Parasites taxonomy and identification. University of Veterinary Medicine (TiHO) Hannover, Germany, 13-17, September, 2004.



- Biometrical Procedures in animal breeding with application of Program Packet SAS, Gesellschaft für Tierzuchtwissenschaft (GfT), Würzburg, Germany, 25 March – 1 April, 2004.
- Veterinary Parasites taxonomy and identification. University of Veterinary Medicine (TiHO) Hannover, Germany, 13-17, September, 2004.

### **MSc SUPERVISOR:**

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**Dr. Abdurhman Al-Fataftah, Professor.**

Animal Environmental Physiology  
The University of Jordan  
EMail: a.fataftah@ju.edu.jo

### **PhD SUPERVISORS:**

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**Dr. Clemens Wollny, Professor of Tropical Animal Breeding at University of Göttingen, Germany.** (present address: Technische Hochschule Bingen, Berlinstraße 109, 55411 Bingen, Germany: Tel. 06721 409-348, Email: c.wollny@fh-bingen.de).

**Dr. Matthias Gauly, Professor of Livestock Production Systems at University of Göttingen, Germany.** (present address: Faculty of Science and Technology of the Free University of Bozen – Bolzano, Italy. Email: matthias.gauly@unibz.it).

### **PROFESSIONAL SERVICE**

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**I served as a reviewer in the following peer reviewed journals**

- Animal
- Livestock Science
- Journal of Thermal Biology
- Tropical Animal Health and Production
- Journal of Animal Physiology and Animal Nutrition
- Jordan Journal of Agricultural Sciences
- Journal of Visualized Experiments
- Planta Medica

### **PERSONAL DATA:**

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Date of Birth: January, 18, 1975  
Place of Birth: Malka, Jordan  
Nationality: Jordanian  
Languages: Arabic, English, and German  
Marital status: Married