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EDUCATION

August, 2012-December, 2015	Ph.D in Animal Science/ Iowa State University Dissertation title: “Effects of heat stress or ketosis on metabolism and inflammatory biomarkers in ruminants and monogastrics” Advisor: Dr. Lance Baumgard.
January, 2009-May, 2012	M.Sc. in Animal Production/ The University of Jordan. Thesis title: “Effect of pre-heat exposure of broiler chickens on alleviating heat stress during heat waves in Jordan” Advisor: Dr. Abdur-Rahman Al-Fataftah
August, 2004-May, 2008	B.Sc. in Animal Production/ The University of Jordan (ranked the 1st)

ACADEMIC EXPERIENCE

July, 2020 -Present	Associate professor at the Department of Animal Production/School of Agriculture/The University of Jordan/Amman-Jordan
April, 2016-July, 2020	Assistant professor at the Department of Animal Production/School of Agriculture/The University of Jordan/Amman-Jordan
December, 2015-March, 2016	Lecturer at the Department of Animal Production/School of Agriculture/The University of Jordan/Amman-Jordan
August, 2012-December, 2015	Graduate Research Assistant at the Department of Animal Science/Iowa State University/Ames, IA

October, 2008-August, 2012

Graduate Research Assistant at the Department of
Animal Production/School of Agriculture/ The
University of Jordan/Amman-Jordan

ADMINISTRATIVE EXPERIENCE

October, 2022-September 2023

Department Head

September, 2017-September, 2021

Assistant Dean for student's affair/School of
Agriculture/The University of Jordan/Amman-
Jordan

RESEARCH INTERESTS

- Heat stress effects on farm animals (production, reproduction, inflammation, histology)
- Management strategies to ameliorate negative consequences of heat stress

REVIWER FOR SCIENTIFIC JOURNALS

- Journal of Animal Physiology and Animal Nutrition
- Journal of Thermal Biology
- Livestock Science
- Canadian Journal of Animal Science

TAUGHT COURSES

Term	Year	Course no.	Course Title	Level	Student number
Spring	2024/2025	0632459	Environmental Physiology of Farm Animals	BCS	21
Spring	2024/2025	0602713	Environment and Farm Animals Productivity	MSC	4
Spring	2024/2025	3410101	Entrepreneurship and Innovation	BCS	68
Fall	2024/2025	3400100	Special Topic/House Garden	BCS	88
Fall	2024/2025	0602913	Environment and Farm Animals Productivity	PHD	5
Fall	2024/2025	0602101	Principles of Animal Production	BCS	33

Fall	2024/2025	0602491	Special Training in Animal Production	BCS	4
Spring	2023/2024	0602488	Animal Production in Hot Regions (Blended learning)	BCS	7
Spring	2023/2024	3410102	Life and Practical Skills/Scientific Research	BCS	65
Spring	2023/2024	3410101	Entrepreneurship and Innovation	BCS	65
Spring	2023/2024	0602491	Special Training in Animal Production	BCS	6
Fall	2023/2024	3410100	Ethics and Human Values	BCS	90
Fall	2023/2024	3410100	Ethics and Human Values	BCS	90
Fall	2023/2024	0602488	Animal Production in Hot Regions (Blended learning)	BCS	30
Fall	2023/2024	0602491	Special Training in Animal Production	BCS	4
Summer	2022/2023	3410100	Ethics and Human Values	BCS	90
Summer	2022/2023	3410102	Life and Practical Skills/Scientific Research	BCS	34
Summer	2022/2023	3410102	Life and Practical Skills/Scientific Research	BCS	60
Spring	2022/2023	3410102	Life and Practical Skills/Scientific Research	BCS	48
Spring	2022/2023	0602493	Practical Training in Animal Production	BCS	4
Spring	2022/2023	0602713	Environment and Farm Animals Productivity	MSC	5
Fall	2022/2023	0602488	Animal Production in Hot Regions (Blended learning)	BCS	38
Fall	2022/2023	3400101	Skills of learning and Scientific Research (Blended learning)	BCS	65
Spring	2021/2022	0602713	Environment and Farm Animals Productivity	MSC	8
Spring	2021/2022	3400101	Skills of learning and Scientific Research (Online during COVID-19 pandemic)	BCS	112
Spring	2021/2022	0632459	Environmental Physiology of Farm Animals	BCS	18

Fall	2021/2022	0344321	Biochemistry	BCS	45
Fall	2021/2022	0602488	Animal Production in Hot Regions (Blended learning)	BCS	24
Fall	2021/2022	3400101	Skills of learning and Scientific Research section 7 (Online during COVID-19 pandemic)	BCS	120
Summer	2020/2021	3400101	Skills of learning and Scientific Research (Online during COVID-19 pandemic)	BCS	120
Summer	2020/2021	3400101	Skills of learning and Scientific Research (Online during COVID-19 pandemic)	BCS	120
Summer	2020/2021	0602101	Principles of Animal Production (Online during COVID-19 pandemic)	BCS	60
Spring	2020/2021	0632459	Environmental Physiology of Farm Animals (Online during COVID-19 pandemic)	BCS	32
Spring	2020/2021	3400101	Skills of learning and Scientific Research section 1 (Online during COVID-19 pandemic)	BCS	120
Fall	2020/2021	3400101	Skills of learning and Scientific Research section 7 (Online during COVID-19 pandemic)	BCS	150
Fall	2020/2021	3400101	Skills of learning and Scientific Research section 4 (Online during COVID-19 pandemic)	BCS	150
Fall	2020/2021	0602101	Principles of Animal Production (Online during COVID-19 pandemic)	BCS	30
Summer	2019/2020	3400101	Skills of learning and Scientific Research (Online during COVID-19 pandemic)	BCS	250
Summer	2019/2020	0602101	Principles of Animal Production (Online during COVID-19 pandemic)	BCS	60
Spring	2019/2020	0602488	Animal Production in Hot Regions	BCS	25
Spring	2019/2020	0602101	Principles of Animal Production (Blended learning)	BCS	60
Fall	2019/2020	0602101	Principles of Animal Production (Blended learning)	BCS	67
Fall	2019/2020	0632459	Environmental Physiology of Farm Animals	BCS	9
Summer	2018/2019	0600010	Campus Life and Ethics	BCS	34
Summer	2018/2019	0602101	Principles of Animal Production (Blended learning)	BCS	63

Spring	2018/2019	0602488	Animal Production in Hot Regions	BCS	29
Spring	2018/2019	0602101	Principles of Animal Production	BCS	57
Spring	2018/2019	0600010	Campus Life and Ethics	BCS	38
Fall	2018/2019	0602491	Seminar in Animal Production	BCS	4
Fall	2018/2019	0632459	Environmental Physiology of Farm Animals	BCS	13
Fall	2018/2019	0600010	Campus Life and Ethics	BCS	82
Summer	2017/2018	0602101	Principles of Animal Production	BCS	40
Spring	2017/2018	0602488	Animal Production in Hot Regions	BCS	17
Spring	2017/2018	0602256	Animal Physiology	BCS	17
Fall	2017/2018	0632459	Environmental Physiology of Farm Animals	BCS	12
Spring	2016/2017	0602491	Seminar in Animal Production	BCS	8
Spring	2016/2017	0602488	Animal Production in Hot Regions	BCS	10
Fall	2016/2017	0632459	Environmental Physiology of Farm Animals	BCS	12
Spring	2015/2016	0602488	Animal Production in Hot Regions	BCS	11

REFEREED JOURNAL ARTICLES

Rahaf Istatieh, **Mohannad Abuajamieh**, Mohmmad Al-Qaisi, Mohamed A Abedal-Majed, and Anas Abdelqader. 2025. Impact of Probiotic-Supplemented Water on the Performance and Physiological Responses of Broilers under Normal and Heat Stress Conditions. Veterinary World. Accepted.

Mohannad Abuajamieh, Mohmmad Al-Qaisi, Zeinab MH Mahasneh, Rahaf Istatieh, Mohamed A Abedal-Majed, Anas Abdelqader, and Abdur-Rahman A Al-Fataftah. 2025. Effects of β -Glucan on the Performance and Gut Integrity of Broilers under Acute Heat Stress Conditions. Poultry Science. 105065.

Zeinab MH Mahasneh, **Mohannad Abuajamieh**, Anas Abdelqader, Mohmmad Al-Qaisi, Mohamed A Abedal-Majed, Hosam Al-Tamimi, Hana Zakaria, and Abdur-Rahman A Al-Fataftah. 2024. The effects of Artemisia Sieberi, Achillea Fragrantissima, and Olea Europaea leaves on the performance and physiological parameters in heat-stressed broiler chickens. *Frontiers in Veterinary Science*. 11:1410580.

Zeinab MH Mahasneh, **Mohannad Abuajamieh**, Mohamed A Abedal-Majed, Mohmmad Al-Qaisi, Anas Abdelqader, Abdur-Rahman A Al-Fataftah. 2024. Effects of medical plants on alleviating the effects of heat stress on chickens. *Poultry Science*. 103391.

Firas Hayajneh, A. Abdelqader, H. Zakaria, **M. Abuajamieh**, and S. Araj. 2024. Drug resistance and coccidiosis effects on immunity, performance, blood micronutrients, and intestinal integrity in broiler chickens. *International Journal of Veterinary Science*. 13(1): 34-41.

Mohammad Al-Qaisi, Anas Abdelqader, **Mohannad Abuajamieh**, Mohamed A. Abedal-Majed, and Abdur-Rahman Al-Fataftah. 2023. Impacts of dietary betaine on rectal temperature, laying performance, metabolism, intestinal morphology, and follicular development in heat-exposed laying hens. *Journal of Thermal Biology*. 117 (103714)

Mohamed A. Abedal-Majed, **Mohannad Abuajamieh**, Mohmmad Al-Qaisi, Kevin M. Sargent, Hosam Hani Titi, Mufeed Awni Alnimer, Anas Abdelqader, Ahmad I. Shamoun, Andrea S Cupp. 2023. Sheep with Ovarian Androgen Excess have Fibrosis and Follicular Arrest with Increased mRNA Abundance for Steroidogenic Enzymes and Gonadotropin Receptors. *Journal of Animal Science*. 101:1-11

Anas Abdelqader, **Mohannad Abuajamieh**, Mohamed A. Abedal-Majed, Mohmmad Al-Qaisi, Abdur-Rahman A. Al-Fataftah. 2023. Suppression of inflammatory responses in heat-stressed broiler chickens by bovine casein. *Journal of Thermal Biology*. 113 (2).

Mohmmad Al-Qaisi, Mohamed A. Abedal-Majed, **Mohannad Abuajamieh**, Mufeed Alnimer, Abdur-Rahman A. Al-Fataftah, Rabie Irshaid, Hosam Titi and Anas Abdelqader. 2022. Effects of dietary betaine on body temperature indices, performance, metabolism, and hematological variables of dairy heifer calves during hot summer conditions. *Veterinary World*. 15 (7): 1657- 1664

Opgenorth, J. **M. Abuajamieh**, Horst, E. A. Kvidera, S. K. Johnson, J. S. Mayorga, E. J. Sanz-Fernandez, M. V. Al-Qaisi, M. A. DeFrain, J. M. Kleinschmit, D. H. Gorden, P. J. and Baumgard, L. H. 2021. The effects of zinc amino acid complex on biomarkers of gut integrity, inflammation, and metabolism in heat-stressed ruminants. *J. Dairy Sci.* 104(2): 2410-2421.

M. Abuajamieh, A. Abdelqader, R. Irshaid, F. M. Hayajneh, J. M. Al-Khaza'leh, and A. Al-Fataftah. 2020. Effects of organic zinc on the performance and gut integrity of broilers under heat stress conditions. *Arch. Anim. Breed.* 63:125-135.

M. Abuajamieh, A. Abdelqader, M. Al-Qaisi, A. Al-Fataftah, and T. M. Al-Antary. 2020. Effect of Bentonite on the performance and gut integrity of lambs under heat stress conditions. *Fresenius Environmental Bulletin.* 29:4799-4806

Abdelqader, A. **M. Abuajamieh**, Hayajneh, F. and. Al-Fataftah, A. R. 2020. Probiotic bacteria maintain normal growth mechanisms of heat stressed broiler chickens. *J. Therm. Bio.* 92: 102654.

M. Abuajamieh, S. K. Kvidera, E. J. Mayorga, A. Kaiser, S. M. Lei, S. K. Stoakes, J. T. Seibert, E. A. Horst, M. V. Sanz-Fernandez, J. W. Ross, J. T. Selsby, A. F. Keating, R. P. Rhoads, and L. H. Baumgard. 2019. The effect of recovery from heat stress on circulating bioenergetics and inflammatory biomarkers. *J. Anim. Sci.* 96: 4599-4610.

Al-Khaza'leh, J., A. Abdelqader, **M. Abuajamieh**, and F. Hayajneh. 2020. Assessment of water sources availability and quality for small ruminant consumption in the northern Badia region of Jordan. *Veterinary World.* 13(6): 1073-1082.

Horst, E. A., S. K. Kvidera, **M. Abuajamieh**, E. J. Mayorga, M. Al-Qaisi, and L. H. Baumgard. 2019. Short Communication: Ketosis, feed restriction, and an endotoxin challenge do not affect circulating serotonin (5-HT) in lactating dairy cows. *J. Dairy Sci.* 102(12): 11736-11743.

Irshaid, R., A. Abdelqader, **M. Abuajamieh**, F. Hayajneh, H. Titi. 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.*

Mayorga, E. J., S. K. Kvidera, J. T. Seibert, E. A. Horst, **M. Abuajamieh**, M. Al-Qaisi, S. Lei, J. W. Ross, C. D. Johnson, B. Kremer, L. Ochoa, R. P. Rhoads, and L. H. Baumgard. 2019. Effects of dietary chromium propionate on growth performance, metabolism, and immune biomarkers in heat-stressed finishing pigs. *J. Anim. Sci.* 97:1185-1197.

Seibert, J. T., **M. Abuajamieh**, M. V. Sanz Fernandez, J. S. Johnson, S. K. Kvidera, E. A. Horst, E. J. Mayorga, S. Lei, J. F. Patience, J. W. Ross, R. P. Rhoads, R. C. Johnson, S. M. Lonergan, J. W. Perfield II, and L. H. Baumgard. 2018. Effects of heat stress and insulin sensitizers on pig adipose tissue. *J. Anim. Sci.* 96: 510-520.

Alhenaky, A., A. Al-Fataftah, **M. Abuajamieh**, A. Abdelqader. 2017. The effect of heat stress on intestinal integrity and Salmonella invasion in broiler birds. *J. Therm. Bio.* 70: 9-14

Kvidera, S. K., E. A. Horst, **M. Abuajamieh**, E. J. Mayorga, M. V. Sanz-Fernandez, and L. H. Baumgard. 2017. Estimating glucose requirements of an activated immune system in growing pigs. *J. Anim. Sci.* 95(11): 5020-5029

Kvidera, S. k., E. A. Horst, M. V. Sanz Fernandez, **M. Abuajamieh**, S. Ganesan, P. J. Gorden, H. B. Green, K. M. Schoenberg, W. E. Trout, A. F. Keating, and L. H. Baumgard. 2017. Characterizing effects of feed restriction and glucagon-like peptide 2 administration on biomarkers of inflammation and intestinal morphology. *J. Dairy. Sci.* 100: 9402-9417

Abdelqader, A. R. Irshaid, M. J. Tabbaa, **M. Abuajamieh**, H. Titi, and A A-Fataftah. 2017. Factors influencing Awassi lambs survivorship under field conditions. *Livestock Science.* 199: 1-6

Kvidera, S. K., M. J. Dickson, **M. Abuajamieh**, D. B. Snider, M. V. Sanz Fernandez, J. S. Johnson, A.F. Keating, P. J. Gorden, H. B. Green, K. M. Schoenberg, and L. H. Baumgard. 2017. Intentionally induced intestinal barrier dysfunction causes inflammation, affects metabolism, and reduces productivity in lactating Holstein cows. *J. Dairy Sci.* 100 (5): 4113-4127

Abdelqader, A. M., **M. Abuajamieh**, H. M. Hammad, and A. R. A. Al-Fataftah. 2017. Effects of dietary butyrate supplementation on intestinal integrity of heat-stressed cockerels. *J. Anim. Phys. Anim. Nutr.*

S.K. Kvidera, E.A. Horst, **M. Abuajamieh**, E.J. Mayorga, M.V. Sanz Fernandez, and L.H. Baumgard. 2017. Estimating glucose requirements of an activated immune system in lactating Holstein cows. *J. Dairy Sci.* 100:2360-2374.

M. Abuajamieh, S. K. Stoakes, M. V. Sanz-Fernandez, A. Nayeri, N. C. Upah, E. A. Nolan, S. M. Lei, J. M. DeFrain, H. B. Green, K. M. Schoenberg, W. E. Trout, and L. H. Baumgard. 2016. Inflammatory biomarkers are associated with ketosis in periparturient Holstein cows. *Res. Vet. Sci.* 109:81-85.

Kvidera, S. K., E. A. Horst, **M. Abuajamieh**, E. J. Mayorga, M. V. Sanz-Fernandez, and L. H. Baumgard. 2016. Technical note: A procedure to estimate glucose requirements of an activated immune system in steers. *J. Anim. Sci.* 94:4591-4599.

Johnson, J. S., **M. Abuajamieh**, M. V. Sanz-Fernandez, J. T. Seibert, S. K. Stoakes, A. F. Keating, J. W. Ross, J. T. Selsby, R. P. Rhoads, and L. H. Baumgard. 2015. The impact of in utero heat stress and nutrient restriction on progeny body composition. *J. Therm. Biol.* 53:143-150.

Sanz-Fernandez, M. V., J. S. Johnson, **M. Abuajamieh**, S. K. Stoakes, J. T. Seibert, E. A. Horst, R. P. Rhoads, and L. H. Baumgard. 2015. Effects of heat stress on insulin sensitivity. *Physiol. Rep.* 3(8): e12478.

Sanz-Fernandez, M.V., J. S. Johnson, **M. Abuajamieh**, S. K. Stoakes, J. T. Seibert, L. Cox, S. Kahl, T. H. Elsasser, J. W. Ross, S. C. Isom, R. P. Rhoads, and L. H. Baumgard. 2015. Effects of heat stress on carbohydrate and lipid metabolism in growing pigs, *Physiological Reports*. 3(2): e12315.

BOOK CHAPTERS

Johnson, J.S., **M. Abuajamieh**, M.V. Sanz-Fernandez, J.T. Seibert, S.K. Stoakes, J. Nteeba, A.F. Keating, J.W. Ross, R.P. Rhoads and L.H. Baumgard. 2015. Thermal stress alters post-absorptive metabolism during pre- and postnatal development. Chapter 5. In *Climate Change Impact on Livestock: Adaptation and Mitigation* (Eds. S. Veerasamy, J. Gaughan, L. Baumgard and C. Prasad). Springer Verlag Berlin Heidelberg.

CONFERENCE PROCEEDINGS

Kvidera, S.K., **M. Abuajamieh**, E.A. Horst, M. Al-Qaisi, M.J. Dickson, R.P. Rhoads, A.F. Keating and L.H. Baumgard. 2016. Leaky gut's contribution to heat stress and poor transition into lactation. *Proc. California Anim. Nutr. Conf.* pp. 106-128.

Kvidera, S.K., **M. Abuajamieh**, E.A. Horst, R.P. Rhoads and L.H. Baumgard. 2016. Gut integrity: Implications for health and performance. *Animal Feed Manufacturers Association*. Sun City, South Africa. *Matrix* 25:2 45-47.

Abuajamieh, M., S.K. Kvidera, E.A. Horst, M. Al-Qaisi, M.J. Dickson, R.P. Rhoads, A.F. Keating and L.H. Baumgard. 2016. Leaky gut's contribution to heat stress and maladaptation to lactation. 31st Annual Southwest Nutrition Conference. Tempe AZ Pp. 69-80.

Sanz-Fernandez, M.V., S.K. Stoakes, J.S. Johnson, **M. Abuajamieh**, J.T. Seibert, S.C. Pearce, N.K. Gabler, R.P. Rhoads, and L.H. Baumgard. 2015. Heat stress: What's the gut go to do with it. 2015 Herd Health and Nutrition Conferences. Pp. 41-58. Liverpool NY

Baumgard, L.H., **M. Abuajamieh**, S.K. Stoakes, E. Nolan and R.P. Rhoads. 2014. Production and metabolic consequences of heat stress: Potential nutritional strategies. Proceedings of the 37th annual Association of Argentina Production Animals (AAPA). Pg. 12-24.

Stoakes, S.K., **M. Abuajamieh**, M.V. Sanz-Fernandez, J.S. Johnson, J.T. Seibert, R.P. Rhoads, and L.H. Baumgard. 2014. Novel and traditional feed additives and their role in supporting systemic health during stress. In the Proceedings of the 35th annual Western Nutrition Conference. Edmonton Canada. Pp. 33-49.

Stoakes, S.K., **M. Abuajamieh**, M.V. Sanz-Fernandez, J.T. Seibert, E. Nolan, R.P. Rhoads, and L.H. Baumgard. 2014. Evaluating compounds with influence in the gut. In 75th annual Minnesota Nutrition Conference. Pp. 33-48.

Baumgard, L.H., **M. Abuajamieh**, S.K. Stoakes, M.V. Sanz-Fernandez, J.S. Johnson and R.P. Rhoads. 2014. Feeding and managing cows to minimize heat stress. Tri-State Dairy Nutrition Conference. Pp. 61-74.

Sanz-Fernandez, M.V., S.K. Stoakes, J.S. Johnson, **M. Abuajamieh**, J.T. Seibert, S.C. Pearce, N.K. Gabler, R.P. Rhoads and L.H. Baumgard. 2014. Heat Stress; What's the Gut Got To Do With It? 29th Annual Southwest Nutrition Conference. Tempe AZ Pp. 42-57.

Sanz-Fernandez, M.V., S.K. Stoakes, J.S. Johnson, **M. Abuajamieh**, J.T. Seibert, S.C. Pearce, N.K. Gabler, R.P. Rhoads and L.H. Baumgard. 2013. Effects of Heat Stress on Production and Metabolism in Swine. 29th Annual North Carolina Swine Nutrition Conference. Pp. 2-16.

Johnson, J.S., **M. Abuajamieh**, M.V. Sanz-Fernandez, J.T. Seibert, S.K. Stoakes, J.W. Ross, J.T. Selsby, N.K. Gabler, H. Xin, M.C. Lucy, T.J. Safranski, R.P. Rhoads, and L.H. Baumgard. 2013. Heat stress alters energy metabolism during pre- and postnatal development. XXIII International Reunion on Production of Meat and Milk in Hot Climates. Mexicali, Mexico. Pp. 38-50.

Stoakes, S.K., M.V. Sanz-Fernandez, J.S. Johnson, **M. Abuajamieh**, J.T. Seibert, S.C. Pearce, N.K. Gabler, R.P. Rhoads and L.H. Baumgard. 2013. Environmental heat stress and gut integrity. Proceedings. In 74th annual Minnesota Nutrition Conference. Pp. 117-133.

Abuajamieh, M., S.K. Stoakes, D.S. Kohls, B.J. Groen, D.A. Lahr, C.R. Kuehn and L.H. Baumgard. 2013. Heat Stress: Practical Lessons Learned in 2011. Proc. Four-State Dairy Nutrition and Management Conference. June 12-13, 2013. Pp. 64-75.

Baumgard, L.H., **M. Abuajamieh**, S.K. Stoakes, M.V. Sanz-Fernandez, J.S. Johnson, D.B. Snider, and R.P. Rhoads. Heat stress management. Proceedings of 3rd International Symposium on Dairy Cow Nutrition and Milk Quality. Beijing China. 170-180.

Baumgard, L.H., **M. Abuajamieh**, S.K. Stoakes, M.V. Sanz-Fernandez, J.S. Johnson, D.B. Snider and R.P. Rhoads. 2013. The biology of heat stress and potential mitigation strategies to minimize its impact. Proceedings of the Ontario Association of Bovine Practitioners. Pp.13-25

ABSTRACTS

Hines, E.A., J.T. Seibert, S.K. Stoakes, K.L. Graves, B.J. Hale, **M. Abuajamieh**, C.L. Hager, C. Rademacher, L.H. Baumgard, A.F. Keating, and J.W. Ross. 2016. Evaluation of physiological indicators of heat stress and their association with seasonal infertility in first parity sows. J. Anim. Sci. 94(E-Suppl. 2):334

Mayorga, E.J., S.K. Stoakes, J.T. Seibert, E.A. Horst, **M. Abuajamieh**, S. Lei, L. Ochoa, B. Kremer and L.H. Baumgard. 2016. Effects of dietary chromium propionate during heat stress on finishing pigs. J. Anim. Sci. 94(E-Suppl. 2):306

Kvidera, S. K., E. A. Horst, E. J. Laughlin, J. Mayorga, J. T. Seibert, **M. Abuajamieh**, A. Keating, J. Ross, and L. H. Baumgard. 2016. Effects of repeated lipopolysaccharide infusion on hematologic, metabolic, and intestinal histology parameters. FASEB J. 30.925.14

Abuajamieh, M., S. K. Stoakes, M. V. Sanz Fernandez, J. S. Johnson, J. T. Seibert, E. A. Nolan, S. M. Lei, H. B. Green, K. M. Schoenberg, W. E. Trout, and L. H. Baumgard. 2015. Characterizing the temporal pattern of leaky gut biomarkers in healthy and ketotic cows during the transition period. 98(E-Suppl. 2):876.

Baumgard, L. H., S. K. Stoakes, **M. Abuajamieh**, and R. P. Rhoads. 2015. The contribution of the lower gut to altered nutrient partitioning during stress. J. Dairy Sci. 98(E-Suppl. 2):560.

Stoakes, S. K., E. A. Nolan, D. J. Valko, **M. Abuajamieh**, J. T. Seibert, M. V. Sanz Fernandez, P. J. Gorden, H. B. Green, K. M. Schoenberg, W. E. Trout, and L. H. Baumgard. 2015. Characterizing the effect of feed restriction on biomarkers of leaky gut. J. Dairy Sci. 98(E-Suppl. 2):274.

Stoakes, S. K., E. A. Nolan, D. J. Valko, **M. Abuajamieh**, M. V. Sanz Fernandez, and L. H. Baumgard. 2015. Estimating glucose requirements of an activated immune system in Holstein steers. J. Dairy Sci. 98(E-Suppl. 2):21.

Stoakes, S. K., E. A. Nolan, **M. Abuajamieh**, M. V. Sanz Fernandez, and L. H. Baumgard. 2015. Estimating glucose requirements of an activated immune system in growing pigs. J. Animal Sci. 93(E-Suppl. S3):634.

Stoakes, S. K., E. A. Nolan, D. J. Valko, **M. Abuajamieh**, E. J. Mayorga, J. T. Seibert, M. V. Sanz Fernandez, P. J. Gorden, and L. H. Baumgard. 2015. Estimating glucose requirements of an activated immune system in lactating Holstein cows. J. Dairy Sci. 98(E-Suppl. 2):509.

Baumgard, L.H. Stoakes, S K. **Abuajamieh**, **M.** and Rhoads, R.P. 2015. The contribution of the lower gut to altered nutrient partitioning during stress. ADSA Production Division Symposium: The rumen and beyond— Nutritional physiology of the modern dairy cow. J. Dairy Sci. 98(E-Suppl. 2):560.

Stoakes, S.K., E.A. Nolan, **M. Abuajamieh**, M.V. Sanz Fernandez, J.S. Seibert and L.H. Baumgard. Estimating glucose requirements of an activated immune system in growing pigs. Global Food Security Consortium (GFSC). April 14th-15th, 2015. Ames, IA

Abuajamieh, M., E. Laughlin, S. M. Lei, S. K. Stoakes, E. J. Mayorga, J. T. Seibert, E. Nolan, M. V. Sanz-Fernandez, J. Ross, J. Selsby, R. Rhoads and L. H. Baumgard. 2015. The Effects of Recovery Time from Heat Stress on Circulating Bioenergetic Variables and Biomarkers of Leaky Gut. FASEB J. 29(E-Suppl. S3): LB365.

Seibert, J. T., **M. Abuajamieh**, M.V. Sanz Fernandez, J.S. Johnson, S.K. Stoakes, J.F. Patience, J.W. Ross, R.P. Rhoads, S.M. Lonergan, L.H. Baumgard. 2015. Effects of heat stress on adipose tissue fatty acid composition and moisture content in pigs. J. Anim. Sci. 93(E-suppl. 2):175.

Abuajamieh, M., S.K. Stoakes, V. Sans-Fernandez, J.S. Johnson, P.J. Gorden, D. M. McKilligan and L.H. Baumgard. 2014. A comparison between propylene glycol and a multiple component drench on energetic variables in early lactating Holstein cows. J. Dairy Sci. 97(E-Suppl. 1):357.

Johnson, J. T., **M. Abuajamieh**, M.V. Sanz Fernandez, J.T. Seibert, S.K. Stoakes, A.F. Keating, J.W. Ross, J.T. Selsby, R.P. Rhoads, and L.H. Baumgard. 2014. The impact of *in utero* heat stress and nutrient restriction on progeny body composition. J. Anim. Sci. 92. (E-Suppl. 2):583.

Sanz-Fernandez, M. V., J. S Johnson, **M. Abuajamieh**, S. K Stoakes, S. M Lei, R. P Rhoads, and L. H Baumgard. 2014. Effects of heat stress on pancreatic insulin content and β -cell distribution in growing pigs. J. Anim. Sci. 92(E-Suppl. 2):257.

Stoakes, S. K., **M. Abuajamieh**, D. B. Snider, V. Sans-Fernandez, J. S. Johnson, P. J. Gorden, N. K. Gabler, H. B. Green, K. M. Schoenberg and L. H. Baumgard. 2014. The effects of intentionally-induced leaky gut on metabolism and production in lactating Holstein dairy cows. J. Dairy Sci. 97(E-Suppl. 1):101.

Stoakes, S. K, **M. Abuajamieh**, M. V. Sanz-Fernandez, J. S. Johnson, D. B. Snider, R. P. Rhoads, and L. H. Baumgard. 2013. Predictors of the heat stress response in lactating Holstein cows. J. Anim. Sci. 91(Suppl. 2):710.

Johnson, J. T., M. V. Sanz-Fernandez, S. K. Stoakes, M. Abuajamieh, J. W. Ross, M. C. Lucy, T. J. Safranski, R. P. Rhoads, L. H. Baumgard. 2013. Gestational heat stress alters postnatal thermoregulation. J. Anim. Sci. 91(E-Suppl. 2):168.

Sanz-Fernandez, M. V., J. S Johnson, **M. Abuajamieh**, S. K. Stoakes, A. L Gabler, S. M Lei, Mateus Zucato Toledo, R. P Rhoads, and L. H Baumgard. 2013. Effects of heat stress on the response to metabolic challenges in growing pigs. FASEB J. (E-Suppl. 365.8).

GRANTS

Title	Grantor	Year Rec'd	Year Term.	Amount	Role
Effect of Probiotic-Supplemented Water on the Performance and Physiological Responses of Layers under Normal and Heat Stress Conditions	JU Dean of Scientific Research	2024	2025	\$24,000	PI
Effects of beta glucan on the performance and health of poultry under thermos-neutral and heat stressed conditions	Ministry of Higher Education	2021	2024	\$71,000	PI
Effect of Organic Zinc on the Performance and Gut Integrity in Poultry under Heat Stress Conditions	JU Dean of Scientific Research	2016	2018	\$24,000	PI
Heat stress effects on lambs supplemented with some microminerals	JU Dean of Scientific Research	2017	2019	\$21,000	PI
Effect of different energy levels post-weaning on ovine intestinal health and ovarian follicular development <i>in vivo</i> and <i>in vitro</i>	JU Dean of Scientific Research	2018	2020	\$28,000	Co
Effect of organic zinc on the ovine performance, gut integrity and ovarian follicular development <i>in vivo</i> and <i>in vitro</i>	JU Dean of Scientific Research	2019	2021	\$28,000	Co
Effects of dietary betaine supplementation on performance, inflammatory biomarkers, and intestinal integrity during feed restriction in sheep	JU Dean of Scientific Research	2020	2022	\$28,000	Co

SUPERVESION OF GRADUATE STUDENTS

1. Ala'a Abu Aldaba'at. PhD. in Animal Production. 2024. Effects of flaxseed supplementation in the diet of laying hens on their productive performance and health parameters. (Supervisor)
2. Ishraq Al-Khraisat. MSc in Animal Production. 2024. Title: Effects of supplementing dietary postbiotic on performance and gut integrity in laying hens under heat stress conditions. (Supervisor)
3. Rahaf Istatieh. MSc. in Animal Production. 2024 Title: Effect of Water-added Probiotic on the Productive Performance and Physiological Parameters of Broiler Chickens Exposed to Thermo-neutral or Heat Stress Conditions. (Supervisor)
4. Zainab Mahasneh. PhD in Animal Production. 2023. Title: Using indigenous medical plants as feed additives the alleviate the adverse effects of heat stress on broiler chickens' physiology and performance (co-supervisor)
5. Wala'a Al-Yonis. PhD in Animal Production. 2023 (co-supervisor)
6. Fatima Mohammad Kareem. MSc. in Biological Sciences. 2019 (co-supervisor)

GRADUATE THESIS DEFENSE EXAMINER

1. Osama Dawoud. PhD in Animal Production. 2021. The University of Jordan. Supervised by Prof. Abdur-Rahman Al-Fataftah and Dr. Anas Abdelqader
 2. Lubna Hisham Al-Natsheh. MSc in Animal Production. 2020. The University of Jordan. Supervised by Dr. Anas Abdelqader
 3. Bothaine Ahmad Al-Khawaldeh. MSc in Animal Production. 2020. The University of Jordan. Supervised by Dr. Anas Abdelqader
 4. Ahmad Fathi Swaid. PhD in Animal Production. 2022. Title: Effect of Origanum Majorana leaf powder and Nigella Sativa crushed seeds on the performance of broiler chickens. The University of Jordan. Supervised by Hana Zakaria
 5. Ola Khalaf Mahasneh. PhD in Animal Production. 2022. Title: Using Zinc, Betaine, and Yeast cell-wall to combat heat stress in milking dairy cattle performance in an arid to semi-arid region. The University of Jordan. Supervised by Abdur-Rahman Al-Fatfatah and Anas Abdelqader.
 6. Marwan Muhammad Al-Halabi. MSs in Food Science and Technology. 2022. Title: Effect of dietary supplement of different strains of probiotics on growth performance, immune response, and meat quality in broiler chickens infected with coccidian. The University of Jordan. Supervised by Firas Al-Hayajneh and Anas Abdelqader
 7. Amr Meseleh Al-Tarawneh. MSc in Animal Production. 2023. Title: Effect of a hydrolysed dry yeast of Kluyveromyces fragilis supplementation on productive performance, carcass characteristics, and intestinal morphology in broiler chickens. The University of Jordan. Supervised by Mohammad Jalal
 8. Abdullah Al-Najjar. MSc in Animal Production. 2023. Title: The University of Jordan. Supervised by Anas Abdelqader and Abdur-Rahman Al-Fataftah
 9. Alaa Mohammad Hailat. PhD in Animal Production. 2023. Title: Intestinal Immune Gene Expression in Response to a Phyto Formula used as an Alternative to Anticoccidials in Coccidiosis Infected Broiler Chickens. The University of Jordan. Supervised by Anas Abdelqader and Mohammad Gharaibeh
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10. Farah Salah Rahahleh. MSc in Animal Production. 2023. Title: Efficacy of a phytogenic formula as an alternative to anticoccidials in broiler chickens infected with coccidiosis. The University of Jordan. Supervised by Anas Abdelqader and Abdur-Rahman Al-Fataftah
 11. Ayah Al-Hysah. MSc in Animal Production. 2024. Effect of probiotics on the gene expression associated with integrity of intestinal epithelial barrier in broiler chickens exposed to heat stress. The University of Jordan. Supervised by Anas Abdelqader and Abdur-Rahman Al-Fataftah
 12. Lana Majed Abdelhafez. MSc in Animal Production. 2024. Title: Effect of Chitooligosaccharide on performance, intestinal microbiota balance, and gene expression of tight junctions and nutrient transporters in broiler chickens infected with necrotic enteritis. The University of Jordan. Supervised by Anas Abdelqader and Abdur-Rahman Al-Fataftah
 13. Renad Fraih. MSc in Animal Production. 2024. Title: Effect of Probiotics on Performance and Egg Quality of Low- and High-Yield Laying Hens in the Late Phase of Production. The University of Jordan. Supervised by Anas Abdelqader and Abdur-Rahman Al-Fataftah
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HONORS AND AWARDS

- 2014/2015 Ned S. and Esther Raun Graduate Scholarship. Iowa State University, Ames, IA
- Member of Gamma Sigma Delta since 2014
- 2013/2014 Ned S. and Esther Raun Graduate Scholarship. Iowa State University, Ames, IA
- 2012 A scholarship from the University of Jordan to complete the Ph.D degree, Amman, Jordan
- 2008 A scholarship from the University of Jordan to complete the M.Sc degree, Amman, Jordan
- 2007/2008 Ministry of higher education and scientific research scholarship, Amman, Jordan

VISITS AND CONFERENCES

1. Food security in Jordan. February 6th, 2017. The University of Jordan. Amman-Jordan
2. Joint Annual Meeting (ASAS/ADSA) July 12nd -16th, 2015. Orlando, FL.
3. Four-State Dairy Nutrition and Management Conference. June 10th-11st, 2015. Dubuque, IA.
4. Heat Stress Biannual Symposium (member of the organizing committee and presenter): Metabolic and production consequences of heat stress in ruminants. April 16th-17th, 2015. Ames, IA.
5. Global Food Security Consortium. April 14th-15th, 2015. Ames, IA
6. Experimental biology (EB) meeting March 28th -April 1st. 2015. Boston, MA
7. Joint Annual Meeting (ASAS/ADSA) July 20th-24th, 2014. Kansas city, MO.

8. Seasonal infertility project (second part), Murphy Brown LLC. March 30th-April 13th, 2014. Beaver, UT
9. ADSA-ASAS Midwest Meeting. March 17th-19th, 2014. Des Moines, IA
10. Seasonal infertility project (first part), Murphy Brown LLC. July 13th-30th, 2013. Milford, UT
11. Joint Annual Meeting (ASAS/ADSA) July 8th-12nd, 2013. Indianapolis, IN.
12. Four-State Dairy Nutrition and Management Conference. June 12nd-13th, 2013. Dubuque, IA.
13. Heat Stress Biannual Symposium. April 4th-5th, 2013. Ames, IA
14. World Dairy Expo. October 2nd-6th, 2012. Madison, WI

LANGUAGES

Arabic (Mother tongue)

English (Excellent in reading, writing and speaking)

MEMBERSHIPS

- Agricultural Engineering Association (2008-present)
 - Rank: **Expert** in animal science teaching (Since 2017)
- Animal Science Dairy Association (ADSA) (2012-2015)
- Association of Graduate Animal Scientists (2012-2015)
- Gamma Sigma Delta (Since 2014)

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