

Education

Virginia Polytechnic Institute and State University, Virginia, 2007-2011

Ph.D. in Human Nutrition, Food and Exercise: August 2011

Studying the regulation of Nhlh2 with differing energy status (transcriptional and post-transcriptional control)

University of Jordan, Jordan, 1995-1998.

Masters in Animal Production.

Effect of nutritional level on onset of puberty of Awassi female lambs in the Jordan Valley.

University of Baghdad, Iraq, 1990-1994.

Bsc in Animal Production program with honors (Ranked 1st of Animal Production Department.)

AWARDS and HONORS

- Trainee Day Workshop Travel Award, 92nd Annual Endocrine Society Meeting (June 2010). San Diego, California.
- Ph.D. Scholarship, Islamic Development Bank Scholarship, 2007-2011.
- The best booklet for farmers, 2006 (Third prize), Agriculture Engineers Association, Jordan.
- The distinguished Researcher in the year 2003, National Center of Agricultural Research and Extension (NCARE), Jordan.
- The first of Animal Production Department (about 250 students) and the honor section, 1994, University of Baghdad, Iraq.

RESEARCH EXPERIENCE

Doctoral Research: Department of Human Nutrition, Food and Exercise. Virginia Tech, 2007-2011 (Advisor: Dr. Deborah J. Good).

- Determine transcription factors that regulate Nhlh2 gene.
- Study post-transcriptional regulation of Nhlh2, effect of SNPs in the 3'UTR on gene expression.

Research in National Center for Agricultural Research and Technology Transfer: Integrated Animal Resources Research, Jordan, 1998-2007.

- Using untraditional feed stuffs in feeding sheep and goat.
- Enhance growth rate of sheep using feed supplements.
- Study the effect of feeding different kinds of grass on productivity of sheep and goat.
- Improve sheep production by using feed blocks in animal ration.

Master Research: Department of Animal Production, University of Jordan, 1995-1998 (Advisor: Dr. Wadi Lubbadah).

- Study the effect of nutritional level, protein and energy, on the onset of puberty of Awassi sheep lambs.

PUBLICATIONS, PRESENTATIONS and CONFERENCES

- **Numan Al_Rayyan** and Deborah J. Good. 2011. Transcriptional and Post-transcriptional Regulation of the Nescient helix-loop-helix 2 (Nhlh2) Gene. ENDO 2011, June 4-7, 2011. Boston, Massachusetts.
- **Numan Al_Rayyan** and Deborah J. Good. 2010. Leptin-induced transcriptional regulation of the Nescient helix-loop-helix 2 (Nhlh2) gene. ENDO 2010, June 19-22, 2010. San Diego, California.
- Alazzeah, A. Y., AbuGhazaleh, A. A., Awawdeh, F. T., Abdelrahman, M. M. and **Al-Rayyan, N. A.** 2009. Impact of Feeding Saltbush Twigs on Feed Intake, Weight Gain, and Some Mineral Levels of Fattening Awassi Lambs. Biological trace element research 130(1):13-19.
- Faisal Albarakeh, **Numan AL_Rayyan** , and Ahmad Khresat. Calves Fattening. 2006. NCARE, Amman, Jordan.
- Faisal Albarakeh, **Numan AL_Rayyan** , and Ahmad Khresat. The Practical guide for management and feeding sheep. 2006. NCARE, Amman, Jordan.
- **Al-Rayyan N** and Alazzeah A.Y. (2003). The Practical Manual of Sheep Nutrition in the Arid Regions of Jordan. NCARE, Amman, Jordan. (Outreach and Extension work).
- **AL_Rayyan, N.A.M.** and Lubbadah, W. F. 2000. Effect of dietary protein level on onset of puberty of Awassi female lambs in the Jordan Valley. Dirasat. 27: 176_183.
- Mutassim M. Abdelrahman, **Numan A.M. AL_Rayyan**, Faisal T. Awawdeh and Awfa Y. Alazzeah. 2003. The Effect of dietary levels of zinc methionine on the performance of growing Awassi lambs. Pakistan Journal of Biological science. 6(11): 979-983.
- Awawdeh, F., AL_Totajji, W., **AL_Rayyan, N. A.M.** Incorporation agricultural by_products in the complete rations for small ruminants. Proceeding of The Fourth Agricultural Conference. 24-26 April 2001. Jerash Private University. Jerash, Jordan.

COMMITTEES

- Member of the Scientific Committee. The Higher Council of Science and Technology. 2006-2007. Amman, Jordan
- Member of agricultural team to prepare occupation description guidance for the Arab countries. 2006-2007. Vocational Training Corporation, Amman, Jordan.
- Member of agricultural team to prepare the Jordanian occupation guidance. 2005-2007. Vocational Training Corporation, Amman, Jordan.

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USA

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National Center for Agricultural Research and Extension.
Baq'a-Jordan.

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