

CURRICULUM VITA

Falah Shidaifat, BVMS., MS., PhD.
Professor of Physiology and Pharmacology
Board of Trustees, Al-al Bayt University

Objective:

To provide quality teaching/learning and experiential experiences in physiology and pharmacology for undergraduate and graduate students.



General Information

Name: Falah Hassan Shidaifat

Place of Birth: Mafrag-Jordan

Date of Birth: December 2, 1963

Marital Status: Married

Present Address:

Home: Irbid-Jordan
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Department of Basic Veterinary Medical Sciences
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Citizenship: Jordanian

Educational Background

- **Doctor of Philosophy (PhD), 1996**
Department of Veterinary Biosciences
College of Veterinary Medicine
The Ohio State University
Columbus, Ohio
USA

- ***Master of Science, 1993***
Department of Veterinary Physiology and Pharmacology
The Ohio State University
Columbus, Ohio
USA
- ***Bachelor of Veterinary Medicine and Surgery, 1987***
College of Veterinary Medicine
Baghdad University
Baghdad, Iraq
- ***Major Field: Physiology and Pharmacology***
- ***Minor field: Molecular Reproductive Endocrinology***
- ***Research Interest: Molecular studies of Reproduction and Hormone Dependent Cancers***

Academic and Professional Experience:

2007-Present	<i>Professor of Physiology and Pharmacology</i> Department of Basic Veterinary Medical Sciences Faculty of Veterinary Medicine Jordan University of Science and Technology Irbid-Jordan
2015- Present	Board of Trustees, Al-al Bayt University
2015-Present	Scientific Research Support fund, Agriculture and Veterinary Sciences, Ministry of Higher Education
Recently	Consultative Commission of Al-al Bayt University Broadcasting
2004 – 2009	Vice Dean Faculty of Veterinary Medicine Jordan University of Science and Technology
1999-2002	Assistant Dean Faculty of Veterinary Medicine Jordan University of Science and Technology

1990-1991 ***Teaching and Research Assistant***
Faculty of Veterinary Medicine, Department of Basic Veterinary Medical,
Sciences, Jordan University of Science and Technology
Irbid-Jordan.

1987-1989 ***Veterinarian***
Royal Jordanian Knighthood Union
Zerqa-Jordan.

Scholarships and Awards

Distinguished Scholar Award, The Arab Fund Fellowship Program, The Arab Fund For
Economic and Social Development, 2009-2010.

Outstanding performance scholarship in Veterinary Medicine awarded by the Ministry of
Education, Jordan from 1982-1987.

Outstanding performance scholarship to pursuit of graduate studies in Veterinary
Physiology provided by the Jordan University of Science and Technology, Jordan from
1991-1996.

Sabbaticals and Scientific Visits

2003-2004 Department of Biological Sciences
Faculty of Science
Yarmouk University
Irbid-Jordan

Duties: Teaching mammalian physiology and endocrinology courses to undergraduate and
graduate students. Practical experiences included assessment of hormones of reproductive system
of female and male.

2007 Department of Basic Medical Sciences
College of Veterinary Medicine
Purdue University, West Lafayette, IN 47907

Duties: Did assessment, as a subject matter expert, of online courses for teaching and learning of
mammalian physiology for undergraduate students.

2009-2010 Department of Basic Veterinary Biosciences
Collage of Veterinary Medicine
The Ohio State University
USA

Duties: Conducted research on the effects of testosterone and estrogen on the regulation of gene
expression related to the normal growth and development of the prostate gland.

Teaching Experience and Philosophy:

- **Teaching Philosophy**

As a teacher, I have been enjoying being a facilitator of the learning process and inspiring students' interest in mammalian physiology pharmacology by being knowledgeable, well-prepared, and enthusiastic. I have been *integrating understanding of the structure, function, biochemical pathways, and case-based approaches* to help students appreciate the importance of basic physiological concepts and their interrelationships. I believe in challenging the students and enticing them to look for, evaluate and ethically use information to promote life-long; think critically, and solve problems. I design practical sessions and project-based learning experiences to help students use discovery—and project-based learning to understand physiological and pharmacological concepts. I encourage students to work in teams and learn from each other (peer instruction). My diverse teaching experiences and solid background systems physiology, pharmacology and research in endocrinology, support my educational credentials and accomplishments.

- **Teaching Experience**

Jordan University of Science and Technology

- Animal Physiology I (VM 221)
- Animal Physiology II (VM 222)
- Veterinary Pharmacology (VM 372)
- General Veterinary Pharmacology (VM 341)
- Biochemistry (Chem. 262)
- Biochemistry (VM 223)
- Animal Physiology (B 412)
- Advanced Physiology I (VM 792)
- Advanced Physiology II (VM 793)
- Practical training I (VM 713)
- Practical Training II (VM 714)

Yarmouk University

Animal Physiology
Comparative animal Physiology
Advanced Endocrinology

Philadelphia University

Animal Biotechnology

Selected Research and Developmental Grants

Agency Title	Jordan University of Science and Technology Graduate Students research projects \$70,000
Amount of Support	
Agency Title	Jordan University of Science and Technology Effect of castration on the growth of the prostate gland in dogs
Amount of Support	\$6,570
Agency Title	Higher Council of Science and Technology Studies of problems associated with low fertility in sheep
Amount of Support	\$32,140
Agency Title	Higher Council of Science and Technology Constraints and remedies of dairy industry in Jordan
Amount of Support	\$45,714
Agency Title	United Nation Developmental Programs Improving Awassi sheep productivity by using frozen semen in Jordan, Egypt, and the Palestinian Authority
Amount of Support	\$110,000
Agency Title	Higher Education Development Project, The World Bank Improving and Sustaining Veterinary Education Services and Research in Jordan
Amount of Support	\$625,000

Scientific Training:

Quantitative gene analysis using Real-Time PCR, Department of Medicine, University of Liverpool, Liverpool, UK, August 22- September 3, 2004

Computer and internet based learning, Department of Basic Medical Sciences, Purdue University, Indiana, USA, June 15-30, 2007.

PUBLICATION *refereed international journals*

F. Shidaifat, S. K. Kulp, Y.C. Lin: Zeranol Induces Deleterious Effects on the Testes and the Prostate Gland of Mature Rats. *Endocrine Research*, 38:232-241, 2013.

F. Shidaifat, Y.C. Lin: Testosterone effect on the expression of genes that mediate testosterone metabolism and genes that mediate the effect of those metabolites on the prostate. *Life Sciences*, 91(5-6):194-198, 2012.

M.M. Ababneh, H.F. Ababneh, **F. Shidaifat:** Expression of Cytosolic Phospholipase A2 in Equine Endometrium during the Estrous Cycle and Early Pregnancy. *Reproduction in Domestic Animals*, 46:268-74, 2011.

F. Shidaifat: Age-dependent expression of 5 α -reductase and androgen receptor mRNA by the canine prostate. *Physiological Research*, 58:155-158, 2009.

F. Shidaifat: Development-related expression of KGF and FGF-10 mRNA in the canine prostate gland. *Journal of Veterinary Medicine*, 54:549-552, 2007.

F. Shidaifat, I. Al-zuhair, Z. Bani-Ismail: Interaction of testosterone with inhibin α and β A subunits to regulate prostate gland growth. *Endocrine*, 31:38-43, 2007.

F. Shidaifat, M. Gharaibeh, Z. Bani-Ismail, Effect of castration on extracellular matrix remodeling and angiogenesis of the prostate gland. *Endocrine Journal*, 54:521-529, 2007.

F. Shidaifat, B. Al-Trad, R. Al-Omari: Testosterone effect on immature prostate gland development associated with suppression of transforming growth factor- β . *Life Science*, 80:829-834, 2007.

R. Al-Omari, **F. Shidaifat, M. Daradka,:** Castration induced changes in dog prostate gland associated with diminished Activin and Activin receptor expression. *Life Sciences*, 77:5752-5759, 2005

F. Shidaifat, M. Daradka, R. Al-Omari: Effect of androgen ablation on prostatic cell differentiation in dogs. *Endocrine Research*, 30:327-334, 2004

F. Shidaifat, W. Khamas, N. Hailat: Activin-A differentially regulates steroidogenesis by sheep granulosa cells. *Res. Vet. Science*, 71:23-25, 2001.

F. Shidaifat: Sheep follicular content of inhibin-A and estradiol association with follicular diameter. *Small Ruminant Research*, 42/3: 177-181, 2001.

F. Shidaifat: Effect of activin-A on goat granulosa cells steroidogenesis. *Theriogenology*, 56: 591-599, 2001.

H. Canatan, **F. Shidaifat**, S.K. Kulp, Y. Zhang, W.Y. Chang, R.W. Brueggemeier, Y.C. Lin: Differential effect of keratinocyte growth factor (KGF) on aromatase activity in cultured canine prostate epithelial cell. *Endocrine Research*, 4: 311-323, 1997

W.Y. Chang, Y. Sugimoto, **F. Shidaifat**, S.K. Kulp, H. Canatan, and Y.C. Lin: Gossypol induces spermidine/spermine N1-acetyltransferase in canine prostate epithelial cells. *Biochem. Biophys. Res. Commun.* 231:383-388, 1997.

W.Y. Chang, S.K. Kulp, Y. Sugimoto, H. Canatan, **F. Shidaifat**, N. Inpanbutr, and Y.C. Lin: Detection of keratinocyte growth factor (KGF) messenger ribonucleic acid and immunolocalization of KGF in the canine testis. *Endocrine*, 5:247-255, 1996.

H. Canatan, W.Y. Chang, Y. Sugimoto, **F. Shidaifat**, S.K. Kulp, R.W. Brueggemeier and Y.C. Lin: Keratinocyte growth factor (KGF/FGF-7) has a paracrine role in canine prostate: molecular cloning of mRNA encoding canine KGF. *DNA and Cell Biology*, 15:247-254, 1996

W.Y. Chang, **F. Shidaifat**, M. Uzumcu and Y.C. Lin: Effect of transforming growth factor- β_1 and activin-A on in vitro porcine granulosa cell steroidogenesis. *Theriogenology*, 45:1463, 1996

W.Y. Chang, **F. Shidaifat**, C.J.G. Chang, S.K. Kulp, Y. Sugimoto, H. Canatan, R.W. Brueggemeier, and Y.C. Lin: Experimentally-induced prostatic hyperplasia in young beagles: a model to evaluate the chemotherapeutic effect of gossypol. *Res. Commun. Mol. Pathol. and Pharmacol.*, 92:341-360, 1996.

F. Shidaifat, H. Canatan, S.K. Kulp, Y. Sugimoto, Y. Zhang, R.W. Brueggemeier, W.J. Somers, W.Y. Chang, H-C. Wang and Y.C. Lin: Gossypol arrests human benign prostatic hyperplastic cell growth at G0/G1 phase of the cell cycle. *Anticancer Res.*, 17:1003-1010, 1997

F. Shidaifat, H. Canatan, S.K. Kulp, Y. Sugimoto, W.Y. Chang, Y. Zhang, R.W. Brueggemeier, W.J. Somers and Y.C. Lin: inhibition of human prostate cancer cell growth by gossypol is associated with stimulation of transforming growth factor- β , *Cancer Letters*, 107:37-44, 1996.

Scientific Papers Presented at International Meetings

F. Shidaifat: Understanding the prostate gland biology: Research update from Jordan. Jubilee session “50 years of veterinary medical education in Iasi” and Scientific symposium “Progress and perspectives in veterinary medicine” Iasi, Romania, 16th-17th June 2011.

F. Shidaifat, S. K. Kulp, W. Ye, S. Zhong, S. Lin, Y.C. Lin: Effect of Zeranol on the Prostate gland. 17th FECAVA Eurocongress, Istanbul, Turkey, 7-10 September, 2011.

F. Shidaifat, S. Shudaifat, S. Gharabeh: Stromal cell differentiation and extracellular matrix remodeling in canine benign prostate hyperplasia. 42nd European Veterinary Conference, 311, 2009. The Netherlands.

F. Shidaifat: Expression of cell proliferation and death genes by the canine prostate hyperplasia, American Association For Cancer Research, Jordan, 2007

B. Al-Tarad, R. Al-Omari, **F. Shidaifat**: Testosterone effect on immature prostate gland growth in dogs associated with suppression of TGF- β mRNA expression. Endocrine Abstract, 10, P46, 2005. UK

F. Shidaifat, M. Daradka, R. Al-Omari: Androgen suppresses prostatic cell proliferation and signal for their differentiation. Endocrine Abstract, 4, P67, 2002. UK

F. Shidaifat, A. Shoter, A. Al-katib: Immunohistlocalization of activin and follistatin in goat follicles. Biol. Reprod. 64, Suppl. 1 Abs 105, 2001. Canada

F. Shidaifat, Wael Khamas, N. Hailat: Activin-A differentially regulates sheep granulosa cells steroidogenesis. J. Endocrinol, 167, P34, 2000. UK

F. Shidaifat, Y. Sugimoto, W.Y. Chang, S.K. Kulp, H. Canatan, W.J. Somers, R.W. Brueggemeier, and Y.C. Lin: Differential regulation of gene expression by gossypol: a potential inhibitor of prostate cancer cell growth. Proc. Basic and Clinical Aspects of Prostate cancer. Sponsored by AACR, B21, 1994. USA

F. Shidaifat, H. Canatan, Y. Sugimoto, J. Zheng, S.K. Kulp, W.Y. Chang, R.W. Brueggemeier, W.J. Somers and Y.C. Lin: Gossypol arrests prostate cancer cells in G0/G1 phase of the cell cycle possibly by stimulating transforming growth factor- β (TGF- β) gene expression. Proceeding of 1996 NIH-sponsored international symposium on Biology of Prostate Growth. Abst. No. 23, P. 38, 1996. USA

F. Shidaifat, H. Canatan, J. Zheng, Y. Sugimoto, S.K. Kulp, W.Y. Chang, R.W. Brueggemeier, W.J. Somers and Y.C. Lin: Protein tyrosine phosphatase- γ (PTP- γ) is expressed and stimulated by transforming growth factor- β (TGF- β) in human prostate cancer cells. Proc. Annu. Meet. Am. Assoc. Cancer Res. 37, 246, 1996. USA

F. Shidaifat, Y. Sugimoto, H. Canatan, W.Y. Chang, S.K. Kulp, R.W. Brueggemeier, and Y.C. Lin: Activin-A is expressed in, and inhibits the growth of human prostate cancer cells in vitro. FASEB J. 9(3)3113A, 1995. USA

W.Y. Chang, **F. Shidaifat**, and Y.C. Lin: Transforming growth factor- β_1 (TGF- β_1) and activin-A inhibit gonadotropin-stimulated steroidogenesis in cultured porcine granulosa cells. FASEB J 8(4):3071, 1994. USA

W.Y. Chang, **F. Shidaifat**, W.K. Chen, C.J.G. Chang, S.K. Kulp, Y. Sugimoto, H. Canatan, R.W. Brueggemeier, and Y.C. Lin: Experimentally-induced prostatic enlargement in young beagles: a model to evaluate the chemotherapeutic effect of gossypol. Proc. Endo. Soc., P3-399, 1995. USA

W.K. Chen, **F. Shidaifat**, W.Y. Chang, Y. Sugimoto, H. Canatan, Y. Zheng, S.K. Kulp, J. Zheng, V. Govindan, R.W. Brueggemeier, and Y.C. Lin: Androgen receptor activity can be enhanced by gossypol in human prostate cells. Proc. Endo. Soc. P1-453, 1995. USA

W.Y. Chang, **F. Shidaifat**, S.K. Kulp, Y. Sugimoto, W.K. Chen, H. Canatan, and Y.C. Lin: Prostatic stromal cells (PSCs) from dogs chronically treated with steroids acquires differential responses to growth factor stimulation and androgen-induced gene expression. Biol. Reprod. 52: (Suppl.):464A 1995. USA

Z. Mulla, **F. Shidaifat**, J. Zheng, S.K. Kulp, R.W. Brueggemeier, W.B. Farrar and Y.C. Lin: Antiproliferative effect of gossypol-containing milk on primary cultured human breast cancer cells. Biol. Reprod. 52 (Suppl.):464A, 1995. USA

J. Zheng, **F. Shidaifat**, Y. Zhang, Y. Sugimoto, H. Canatan, S.K. Kulp, W.B. Farrar, R.W. Brueggemeier, and Y.C. Lin: Gossypol stimulate transforming growth factor- β (TGF- β) gene expression in human breast cancer cell line, FASEB J. 10(3):4374A, 1996. USA

W.Y. Chang, **F. Shidaifat**, Y. Sugimoto, H. Canatan, S.K. Kulp, R.W. Brueggemeier and Y.C. Lin: Potential of gossypol (GP) and transforming growth factor- β_1 (TGF- β_1) as inhibitor of canine prostate growth gene. FASEB J 9(3):3112A, 1995. USA

S. Coskun, **F. Shidaifat**, Y.C. Lin, C.I. Friedman and B.M. Alak: Cumulus cells proliferation is enhanced by testosterone in the presence of the oocyte. Biol. Reprod. (Suppl.1):437A, 1996. USA

Y. Zhang, Y. Sugimoto, **F. Shidaifat**, S.K. Kulp, W.B. Farrar, R.W. Brueggemeier, and Y.C. Lin: Effect of recombinant human keratinocyte growth factor (KGF) on aromatase activity in human breast cancer cells. FASEB J. 10(3):4376A, 1996. USA

H. Canatan, Y. Sugimoto, W.Y. Chang, **F. Shidaifat**, W.K. Chen, S.K. Kulp, R.W. Brueggemeier: Molecular cloning of mRNA encoding canine keratinocyte growth factor (KGF) and detection of KGF receptor expression in cultured canine prostate epithelial cells. FASEB J. 9(4):3811A, 1995. USA

Y.C. Lin, W.Y. Chang, Y. Sugimoto, **F. Shidaifat**, W.K. Chen, S.K. Kulp, and R.W. Brueggemeier: Gossypol (GP) differentially regulates expression of a putative prostatic growth inhibitor, Keratinocyte growth factor (KGF), in canine prostates. Proc. Endo. Soc., P3-251, 1995. USA

W.Y. Chang, Y. Sugimoto, S.K. Kulp, H. Canatan, **F. Shidaifat**, R.W. Brueggemeier, W.J. Somers and Y.C. Lin: Keratinocyte growth factor and gossypol inhibits 5 α -reductase activity in canine prostate. Proceeding of 1996 NIH-sponsored International Symposium on Biology of Prostate Growth. Abst. No. 88, P. 77, 1996. USA

H. Canatan, W.Y. Chang, Y. Sugimoto, **F. Shidaifat**, S.K. Kulp, W.J. Somers and Y.C. Lin: Production of biologically active canine Keratinocyte growth factor. Biol. Reprod. 54(suppl.1):292A, 1996. USA

W.Y. Chang, Y. Sugimoto, S.K. Kulp, H. Canatan, **F. Shidaifat**, N. Inpanbutr, W.J. Somers and Y.C. Lin: Immunolocalization of keratinocyte growth factor (KGF) in the canine and human prostate. Biol. Reprod. (Suppl.1);432A, 1996. USA

Graduate student training (Major Advisor):

Graduate student name	Current Position
Dr. Ruba Al-Omari	Laboratory division of animal health department, Ministry of agriculture/ Jordan
Dr. Baha Al-Tarad,	Assistant professor/ Department of biological Sciences/ Yarmouk University/Jordan
Dr. Mohammad Gharaibeh	Assistant professor, Department of Basic Veterinary Medical Sciences, Jordan University of Science and Technology/Jordan
Dr. Ibrahim Al-Zuhair	Instructor of Veterinary Physiology, Veterinary Pharmacology, clinical pharmacology, Faculty of Veterinary Medicine, An-Najah National University, Palestine
Dr. Shokri Shudaifat	Department of Animal health and production, Ministry of agriculture/ Jordan
Dr. Yousef Yasin	Private educational sector/ Biological Sciences instructor, Jordan

International Conferences (Organization and Participation)

The Ninth Meeting of Arab Association of Veterinary Medical Faculties, Tunisia, Tunis, April, 2-4, 2007. Secretary general.

German Academic Exchange Service, Prospective of German-Jordanian Academic Cooperation, November, 22-23, 2006. Session Chairman.

The fourth international conference on biological sciences, 2004, Biological Sciences and Society, October, 12-14, 2004. Session Chairman

The first international conference on sheep and goat diseases and productivity, JUST, October 23-25, 1999. Organizing committee.

The fourth conference of the OIE regional commission for the middle east. Amman Jordan, September 22-25, 1997

REFERENCES:

Professor Young C. Lin, College of Veterinary Medicine, The Ohio state University, Columbus, Ohio, USA. (Young.Lin@cvm.osu.edu)

Professor Abdelfattah Nour, Department of Basic Sciences, College of Veterinary Medicine, Purdue University, West Lafayette, Indiana, USA (nour@purdue.edu)

Professor Saeb El-Sukhon, Professor and former Dean, Faculty of Veterinary Medicine, Jordan University of Science and Technology, Irbid, Jordan (sukhon@just.edu.jo)