Curriculum Vitae

ANAS M. KHANSHOUR

Home institute address: General Commission for Scientific Agricultural Research (GCSAR). Douma, Damascus, Syria.

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EDUCATION:

Doctor of Philosophy in Biomedical Science, Texas A&M University, College Station, USA. Expected in August 2013.

Master in Biotechnology, Damascus University, Syria in collaboration with ENSAT, Toulouse, France. 2007.

Bachelor in Agricultural Engineering, Damascus University, Syria, 2002.

CURRENT POSITION:

2012-present:

Teaching Assistant, Department of Veterinary Integrative Biosciences, College of Veterinary and Biomedical Sciences, Texas A&M University, College Station, USA, TX 77843-4458

PROFESSIONAL EXPERIENCE:

2009-present:

Graduate Assistant, Department of Veterinary Integrative Biosciences, College of Veterinary and Biomedical Sciences, Texas A&M University, College Station, USA, TX 77843-4458.

2006-2009:

Research Assistant, Department of Biotechnology, Division of Molecular Biology, General Commission for Scientific Agricultural Research (GCSAR) Douma, Damascus, Syria.

2006:

Graduate Assistant (visitor), the National Institute of Agronomy ENSAT, Toulouse, France.

2003-2006:

Research Assistant, General Commission for Scientific Agricultural Research (GCSAR) Douma, Damascus, Syria.

RESEARCH EXPERIENCE:

Molecular biology:

- Animal genetic genotyping (microsatellite, SNPs, FISH, AFLP)
- DNA isolation, sequencing and cloning.
- Genetic diseases diagnosis (microarray and rtPCR).
- Microscope observations (standard, epiflourescence and confocal).
- Genetic transformation, GMO detection and plant tissue culture.

Data analysis and Bioinformatics:

- Population genetic and parentage verification analysis (STRUCTURE, NETWORK, PHYLIP, GenAlex, Gentix, MEGA, Genpop, Cervus…).
- Genome wide Association Studies and SNPs data analysis (PLINK).
- Linkage analysis and gene mapping.
- Microarray analysis (Biotrove™ Open Array System, TaqMan® Genotyper and Taqman7500).
- General statistics (JMP).

TEACHING EXPERIENCE:

Texas A&M University, Texas:

- Teaching Assistant: Advances in Human Genetic (GENE 421) and Biomedical Genetics (GENE/BIMS 320) at the Department of Veterinary Integrative Biosciences, 2012-2013.
- Guest instructor in the Professional Program in Biotechnology, Biotechnology Principles and Techniques (IBIOT601), 2012.
- Teaching Assistant, Graduate Teaching Academy program at the Center of Teaching Excellence, 2011-2012.
- Lab Teaching Assistant (volunteer), Biotechnology Principles and Techniques (IBIOT601) 2011.
- Supervise undergraduate students at the Animal Genetic Lab, 2010-present.

Department of Biotechnology, Syria:

- Coordinator and main instructor of three workshops in the field of biotechnology applications in animals and plants 2009.

RESEARCH SUPPORT AND GRANTS AWARDED:

Doctoral scholarship 2009-2013

Principal Investigator: Anas Khanshour

Merit Scholarship Programe for High Technology from the Islamic Development Bank Sponsored under the field of: Genetic Engineering and Biotechnology.

Proposal Title: Applications of biotechnology in the studies of evolutionary history and population structure of Syrian local horse breeds by molecular biology techniques.

Training scholarship 2008

Applied Statistical Methods in Plant Genomics, the Mediterranean Agronomic Institute of Zaragoza in Spain.

Master scholarship for training and research 2006

Outstanding students training and research grant from TEMPUS Programe-JEP-30018.

Travel grants

- International Plant & Animal Genome XX Conference, CA, 2012: USDA-NRSP8 Horse Genome Committee travel award.
- Wakonse South Conference on College Teaching travel award, 2011, Center of Teaching Excellence, Texas A&M University.
- Scientific visit travel grant to Bologna University in Italy, from TRITIMED project, 2007.

Awards

- The High Impact Achievement Recognition Award, College of Veterinary Medicine, Texas A&M University, USA, 2013
- Best Student Oral Presentation Award, Equine Science Symposium, Tennessee, USA, 2011.
- The special award of outstanding contribution, Arab Center for the Study of Arid Zones and Dry Lands, Syria, 2009.
- Best Research Award, the 9th Arabian Congress of Plant Protection ACPP, Syria. 2006.
- Best Graduate Student Research Award in the Science Week Symposium, Ministry of the High Education, Syria 2006.
- The award of "The Arabian Bee Keeper" the Arabian Beekeepers Association, Syria, 2006.

LANGUAGE SKILLS:

1. Arabic.

2. English:

-English proficiency certification in reading, writing, listening and oral skills approved by Texas A&M University, USA.

-TOEFL PBT, total scores 607.

PROFESSIONAL TRAINING:

- Professional Grant Development Workshop, August 2012. Texas A&M University, USA.
- Teaching Training, August 2011, Center of Teaching Excellence, Texas A&M University, USA.
- Fluorescence In-Situ Hybridization (FISH) technique, summer 2010, Molecular Cytogenetics and Genomics Laboratory, Texas A&M University, USA.
- Advanced course in Applied Statistical Methods in Plant Genomics, February 2008, Mediterranean Agronomic Institute of Zaragoza, Spain,
- Training course in SSRs, TILLING, Data Analysis and LiCOR Sequencer system, June 2007, Bologna University, Italy.
- Training course in Molecular Biology Techniques, February, 2007 International Center for Agricultural Research in the Dry Areas, Syria.
- Training course in the Molecular Characterization of Small Ruminant Breeds, April, 2007, International Center for Agricultural Research in the Dry Areas, Syria.

PUBLICATIONS:

Khanshour A., Conant E., Juras R., Cothran G. (2013) Microsatellite analysis of genetic diversity and population structure of Arabian horse populations. Journal of Heredity. doi:10.1093/jhered/est003.

Khanshour A., Conant E., Juras R., Cothran G. (2013). Microsatellite analysis for parentage testing of the Arabian horse breed from Syria. Turkish Journal of Veterinary and Animal Sciences. 37: 9-14.

Khanshour A., Cothran G. (2011). Whole mtDNA D-loop Sequence Variation of the Arabian Horse Strains. Journal of Equine Veterinary Science. (31) 5: 240-241.

Ramirez-Suero M., **Khanshour A.,** Martinez Y., Rickauer M. (2010) A study on the susceptibility of the model legume plant *Medicago truncatula* to the soil-borne pathogen *Fusarium oxysporum*. European journal of Plant Pathology 126: 517–530.

Dumeria J., **Khanshour A.,** Homidan M., Abdulkader A., (2010). Molecular characterization of some local genotypes of *Crataegus azarolus* L. by RAPD. Damascus Univ. J. of Agric. Science. (26) 1: 93-106.

Alassad N., Khayat Gh., **Khanshour A.**, Altaher A., AbdulKader A. (2010). Detection of GMOs Existence in the Local Market. Damascus Univ. J. of Agric. Sci. (26) 2: 311-326.

Nassour M., **Khanshour A.** Abdulkader A., Abbas S. (2008). Molecular characterization of some local genotypes of *Rosa damascene* M. Tishreen University Journal for Research and Scientific Studies- Biological Sciences Series (30) 4: 121-135.

Al-Bouraki A., **Khanshour A.** (2004). The effect of the Pollination by honeybees on Squash yield. Damascus Univ. J. of Agric. Science. (20) 1: 215-233.

MANUSCRIPTS SUBMITTED AND IN PREPARATION:

Khanshour A., and Cothran G. Maternal phylogenetic relationships and genetic variation among Arabian horse populations using whole mitochondrial DNA D-loop sequencing. Under reviewing in BMC Genetics.

Pires D.A.F., Coelho E.G.A., Melo J.B., Oliveira D.A.A., Ribeiro M.N., Cothran G, R. Juras and **Khanshour A.** Genetic diversity and population structure in remnant subpopulations of Nordestino horse breed. Under reviewing in the Genetics and Molecular Biology Journal.

Khanshour A., Juras R.**,** Cothran G. A comparison of the genetic diversity from SNPs and STRs data in horse genome. *In prep*.

Khanshour A., Juras R., Smriti Shankar, Stelly L., Cothran G. Genetic diseases diagnosis in Arabian horses from Syrian and North American populations. *In prep.*

CONGRESSES AND SYMPOSIUMS:

Khanshour A., Conant E., Juras R., Cothran G. Old vs. modern populations; same origin but different evolution: A study of genetic diversity and population structure of the Arabian horse breed. GSA Spring Research Symposium held at College of Veterinary Medicine, Texas A&M University. 2012, College Station, TX, USA.

Khanshour A., Conant E., Juras R., Cothran G. Microsatellite analysis of genetic diversity and population structure of Arabian horse breeds. International Plant & Animal Genome XX. 2012, San Diego, CA, USA.

Cothran G., Davis B. W., **Khanshour A.**, Conant E., and Juras R. Genetic diversity in populations of feral horses on public lands in the Western United States. International Wild Equid Conference. 2012, Vienna, Austria.

Khanshour A., Cothran G. Whole D-loop sequence of mtDNA of some Arabian horse strains. The 22th Equine Science Society Symposium. 2011, Murfreesboro, TN, USA.

Khanshour A., Cothran G. Microsatellite analysis for parentage testing of the Arabian horse breed from Syria. The 14th Student Research Week Symposium. Texas A&M University. 2011, College station. TX, USA.

Ramirez-Suero M., **Khanshour A.**, Khatib M., Jardinaud M., Perrault A., Gentzbittel L., Rickauer M. The XIII International Congress on Molecular Plant-Microbe Interactions held at the Hilton Sorrento Palace Congress Centre in Sorrento. 2007, Naples, Italy.

Khanshour A., Al-Bouraki A. The effect of Pollination by honeybees (*Apis mellifera* L.) on the yield and quality of Anisum (*Pimpinella anisum* L.). The 9th Arab Congress of Plant Protection. 2006 Damascus, Syria.

Khanshour A., Rickauer M., Ramrisorue M. Interaction of *Medicago truncatula* with soil-borne pathogenic microbes and the role of Salicylic Acid (SA) in regulation of defense responses. The 9th Arab Congress of Plant Protection. 2006, Damascus, Syria.

PROFESSIONAL ACTIVITIES AND MEMBERSHIPS:

- Judge at the Student Research Week and Ecological Integration Symposium Dual Competition, Texas A&M University.
- Graduate Teaching Academy fellow, Center of Teaching Excellence, Texas A&M University.
- Wakonse South Conference on College Teaching fellow, Center of Teaching Excellence, Texas A&M University, USA.
- Member in the Graduate Student Association at Texas A&M University, 2009-present.
- Member in the American Genetic Association, 2013.
- Member in the Equine Science Society of the United States. 2011
- Member in the Arabian Beekeepers Association, Syria, 2000-present (administration committee 2003- 2009).

REFERENCES

-Professor **E. Gus Cothran**

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-Professor **C. Jane Welsh**

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