Abdelaziz Tlili, PhD
Assistant Professor
University of Sharjah AMS

Academic Degrees

B.S. - Bachelor of Science, **Natural sciences**, 2000
Faculty of Sciences of Sfax, Sfax, Not Applicable
Good

M.S. - Master of Science, **Genetic engineering**, 2002
National School of Engineers of Sfax, Sfax, Not Applicable
Excellent

Ph.D. - Doctor of Philosophy, **Genetic engineering**, 2007
National School of Engineers of Sfax, Sfax, Not Applicable
Excellent with honors

Awards and Honors

- "Students Sharjah Islamic Award", UoS, May 2016.
- "Sheikh Hamdan Bin Rashid Al Maktoum Award for Medical Sciences", June 2017.

Professional Experience

Pasteur Institute, 01/02/2009 - 31/01/2011
Postdoctoral Researcher

University Of Sfax, 01/09/2003 - 31/08/2005
Lecturer

University Of Sfax, 01/09/2005 - 31/08/2008
Lecturer

University Of Sfax, 01/09/2008 - 31/12/2012
Assistant professor

University Of Sharjah, 27/01/2013 - 31/08/2014
Academic Visiting

University of Sharjah, 01/09/2014 - Present
Assistant professor

University Of Sharjah, 01/09/2014 - 31/08/2016
Head of Department

Publications

Journal Article

1: **Tlili A**, Al Mutery A, Kamal Eddine Ahmad Mohamed W, Mahfood M, Hadj Kacem H. Prevalence of GJB2 Mutations in Affected Individuals from United Arab Emirates with Autosomal Recessive Nonsyndromic Hearing Loss. Genet Test Mol Biomarkers. 2017 Oct 10. doi: 10.1089/gtmb.2017.0130. [Epub ahead of print] PubMed PMID: 29016196.

2: **Tlili A**, Fahd Al Mutery A, Mahfood M, Kamal Eddine Ahmad Mohamed W, Bajou K. Identification of a novel frameshift mutation in the ILDR1 gene in a UAE family, mutations review and phenotype genotype correlation. PLoS One. 2017 Sep 25;12(9):e0185281. doi: 10.1371/journal.pone.0185281. eCollection 2017. PubMed PMID: 28945813; PubMed Central PMCID: PMC5612695.

3: Alila-Fersi O, Chamkha I, Majdoub I, Gargouri L, Mkaouar-Rebai E, Tabebi M, **Tlili A**, Keskes L, Mahfoudh A, Fakhfakh F. Co segregation of the m.1555A>G mutation in the MT-RNR1 gene and mutations in MT-ATP6 gene in a family with dilated mitochondrial cardiomyopathy and hearing loss: A whole mitochondrial genome screening. Biochem Biophys Res Commun. 2017 Feb 26;484(1):71-78. doi: 10.1016/j.bbrc.2017.01.070. Epub 2017 Jan 16. PubMed PMID: 28104394.

4. **Tlili A**, Kharrat M, Mkaouar-Rebai E, Hamida-Hentati N, Ben Romdhan S, Fendri-Kriaa N, Fakhfakh F. Evidence of Mutational Heterogeneity of the ALDH7A1 Gene in Tunisian Families: Molecular and Insilico Investigations. Journal of Materials Science and Engineering B 6 (7-8) (2016) 196-200. doi: 10.17265/2161-6221/2016.7-8.005

5: Tabebi M, Charfi N, Kallabi F, Alila-Fersi O, Ben Mahmoud A, **Tlili A**, Keskes-Ammar L, Kamoun H, Abid M, Mnif M, Fakhfakh F. Whole mitochondrial genome screening of a family with maternally inherited diabetes and deafness (MIDD) associated with retinopathy: A putative haplotype associated to MIDD and a novel MT-CO2 m.8241T>G mutation. J Diabetes Complications. 2017 Jan;31(1):253-259. doi:10.1016/j.jdiacomp.2016.06.028. Epub 2016 Jul 1. PubMed PMID: 27422531.

6: Alila OF, Rebai EM, Tabebi M, Tej A, Chamkha I, **Tlili A**, Bouguila J, Tilouche S, Soyah N, Boughamoura L, Fakhfakh F. Whole mitochondrial genome analysis in two families with dilated mitochondrial cardiomyopathy: detection of mutations in MT-ND2 and MT-TL1 genes. Mitochondrial DNA A DNA Mapp Seq Anal. 2016 Jul;27(4):2873-80. doi: 10.3109/19401736.2015.1060417. Epub 2015 Aug 10. PubMed PMID: 26258512.

7: Jellouli NK, Hadj Salem I, Ellouz E, Kamoun Z, kamoun F, **tlili A**, Kaabachi N, Triki C, Fakhfakh F; Tunisian Network on Mental Retardation study. Founder effect confirmation of c.241A>G mutation in the L2HGDH gene and characterization of oxidative stress parameters in six Tunisian families with L-2-hydroxyglutaric aciduria. J Hum Genet. 2014 Apr;59(4):216-22. doi: 10.1038/jhg.2014.4. Epub 2014 Feb 27. PubMed PMID: 24573090.

8: **Tlili A**, Hamida Hentati N, Chaabane R, Gargouri A, Fakhfakh F. Pyridoxine-dependent epilepsy in Tunisia is caused by a founder missense mutation of the

ALDH7A1 gene. Gene. 2013 Apr 15;518(2):242-5. doi: 10.1016/j.gene.2013.01.041. Epub 2013 Jan 30. PubMed PMID: 23376216.

9: Kammoun Jellouli N, Salem IH, Ellouz E, Louhichi N, **tlili A**, Kammoun F, Triki C, Fakhfakh F; Tunisian Network on Mental Retardation Study. Molecular confirmation of founder mutation c.-167A>G in Tunisian patients with PMLD disease. Gene. 2013 Jan 25;513(2):233-8. doi: 10.1016/j.gene.2012.10.070. Epub 2012 Nov 7. PubMed PMID: 23142375.

10: **Tlili A**, Hamida Hentati N, Gargouri A, Fakhfakh F. Identification of a novel missense mutation in the ALDH7A1 gene in two unrelated Tunisian families with pyridoxine-dependent epilepsy. Mol Biol Rep. 2013 Jan;40(1):487-90. doi: 10.1007/s11033-012-2084-z. Epub 2012 Oct 10. PubMed PMID: 23054014.

11: Bensaïd M, Hmani-Aifa M, Hammami B, **Tlili A**, Hakim B, Charfeddine I, Ayadi H, Ghorbel A, Castillo ID, Masmoudi S. DFNB66 and DFNB67 loci are non allelic and rarely contribute to autosomal recessive nonsyndromic hearing loss. Eur J Med Genet. 2011 Nov-Dec;54(6):e565-9. doi: 10.1016/j.ejmg.2011.07.003. Epub 2011 Jul 26. PubMed PMID: 21816241.

12: Ben Saïd M, Hmani-Aifa M, Amar I, Baig SM, Mustapha M, Delmaghani S, **Tlili A**, Ghorbel A, Ayadi H, Van Camp G, Smith RJ, Tekin M, Masmoudi S. High frequency of the p.R34X mutation in the TMC1 gene associated with nonsyndromic hearing loss is due to founder effects. Genet Test Mol Biomarkers. 2010 Jun;14(3):307-11. doi: 10.1089/gtmb.2009.0174. PubMed PMID: 20373850; PubMed Central PMCID: PMC2936956.

13: Mkaouar-Rebai E, Fendri-Kriaa N, Louhichi N, **Tlili A**, Triki C, Ghorbel A, Masmoudi S, Fakhfakh F. Whole mitochondrial genome screening in two families with hearing loss: detection of a novel mutation in the 12S rRNA gene. Biosci Rep. 2010 Dec;30(6):405-11. doi: 10.1042/BSR20090120. PubMed PMID: 20055758.

14: Siala O, Salem IH, **Tlili A**, Ammar I, Belguith H, Fakhfakh F. Novel sequence variations in LAMA2 andSGCG genes modulating cis-acting regulatory elements and RNA secondary structure. Genet Mol Biol. 2010 Jan;33(1):190-7. doi: 10.1590/S1415-47572010005000008. Epub 2010 Mar 1. PubMed PMID: 21637626; PubMed Central PMCID: PMC3036081.

15: Belguith H, **Tlili A**, Dhouib H, Ben Rebeh I, Lahmar I, Charfeddine I, Driss N, Ghorbel A, Ayadi H, Masmoudi S. Mutation in gap and tight junctions in patients with non-syndromic hearing loss. Biochem Biophys Res Commun. 2009 Jul 17;385(1):1-5. doi: 10.1016/j.bbrc.2009.02.125. Epub 2009 Feb 28. PubMed PMID: 19254696.

16: Ahmed ZM, Masmoudi S, Kalay E, Belyantseva IA, Mosrati MA, Collin RW, Riazuddin S, Hmani-Aifa M, Venselaar H, Kawar MN, **Tlili A**, van der Zwaag B, Khan SY, Ayadi L, Riazuddin SA, Morell RJ, Griffith AJ, Charfedine I, Caylan R, Oostrik J, Karaguzel A, Ghorbel A, Riazuddin S, Friedman TB, Ayadi H, Kremer H. Mutations of LRTOMT, a fusion gene with alternative reading frames, cause nonsyndromic deafness in humans. Nat Genet. 2008 Nov;40(11):1335-40. doi: 10.1038/ng.245. Epub 2008 Oct 26. PubMed PMID: 18953341; PubMed Central PMCID: PMC3404732.

17: **Tlili A**, Rebeh IB, Aifa-Hmani M, Dhouib H, Moalla J, Tlili-Chouchène J, Said MB, Lahmar I, Benzina Z, Charfedine I, Driss N, Ghorbel A, Ayadi H, Masmoudi S. TMC1

but not TMC2 is responsible for autosomal recessive nonsyndromic hearing impairment in Tunisian families. Audiol Neurootol. 2008;13(4):213-8. doi: 10.1159/000115430. Epub 2008 Feb 7. PubMed PMID: 18259073.

18: Mkaouar-Rebai E, **Tlili A**, Masmoudi S, Charfeddine I, Fakhfakh F. New polymorphic mtDNA restriction site in the 12S rRNA gene detected in Tunisian patients with non-syndromic hearing loss. Biochem Biophys Res Commun. 2008 May 9;369(3):849-52. doi: 10.1016/j.bbrc.2008.02.107. Epub 2008 Mar 4. PubMed PMID: 18325329.

19: Abidi O, Boulouiz R, Nahili H, Ridal M, Alami MN, **Tlili A**, Rouba H, Masmoudi S, Chafik A, Hassar M, Barakat A. GJB2 (connexin 26) gene mutations in Moroccan patients with autosomal recessive non-syndromic hearing loss and carrier frequency of the common GJB2-35delG mutation. Int J Pediatr Otorhinolaryngol. 2007 Aug;71(8):1239-45. Epub 2007 Jun 5. PubMed PMID: 17553572.

20: Mkaouar-Rebai E, **Tlili A**, Masmoudi S, Belguith N, Charfeddine I, Mnif M, Triki C, Fakhfakh F. Mutational analysis of the mitochondrial tRNALeu(UUR) gene in Tunisian patients with mitochondrial diseases. Biochem Biophys Res Commun. 2007 Apr 20;355(4):1031-7. Epub 2007 Feb 26. PubMed PMID: 17336924.

21: **Tlili A**, Masmoudi S, Dhouib H, Bouaziz S, Rebeh IB, Chouchen J, Turki K, Benzina Z, Charfedine I, Drira M, Ayadi H. Localization of a novel autosomal recessive non-syndromic hearing impairment locus DFNB63 to chromosome 11q13.3-q13.4. Ann Hum Genet. 2007 Mar;71(Pt 2):271-5. Epub 2006 Dec 12. PubMed PMID: 17166180.

22: Mkaouar-Rebai E, **Tlili A**, Masmoudi S, Louhichi N, Charfeddine I, Ben Amor M, Lahmar I, Driss N, Drira M, Ayadi H, Fakhfakh F. Mutational analysis of the mitochondrial 12S rRNA and tRNASer(UCN) genes in Tunisian patients with nonsyndromic hearing loss. Biochem Biophys Res Commun. 2006 Feb 24;340(4):1251-8. Epub 2006 Jan 5. PubMed PMID: 16406239.

23: **Tlili A**, Männikkö M, Charfedine I, Lahmar I, Benzina Z, Ben Amor M, Driss N, Ala-Kokko L, Drira M, Masmoudi S, Ayadi H. A novel autosomal recessive non-syndromic deafness locus, DFNB66, maps to chromosome 6p21.2-22.3 in a large Tunisian consanguineous family. Hum Hered. 2005;60(3):123-8. Epub 2005 Oct 18. PubMed PMID: 16244493.

24: **Tlili A**, Charfedine I, Lahmar I, Benzina Z, Mohamed BA, Weil D, Idriss N, Drira M, Masmoudi S, Ayadi H. Identification of a novel frameshift mutation in the DFNB31/WHRN gene in a Tunisian consanguineous family with hereditary non-syndromic recessive hearing loss. Hum Mutat. 2005 May;25(5):503. PubMed PMID: 15841483.

25: Masmoudi S, Charfedine I, Rebeh IB, Rebai A, **Tlili A**, Ghorbel AM, Belguith H, Petit C, Drira M, Ayadi H. Refined mapping of the autosomal recessive non-syndromic deafness locus DFNB13 using eight novel microsatellite markers. Clin Genet. 2004 Oct;66(4):358-64. PubMed PMID: 15355440.

26: Masmoudi S, **Tlili A**, Majava M, Ghorbel AM, Chardenoux S, Lemainque A, Zina ZB, Moala J, Männikkö M, Weil D, Lathrop M, Ala-Kokko L, Drira M, Petit C, Ayadi H. Mapping of a new autosomal recessive nonsyndromic hearing loss locus (DFNB32) to

chromosome 1p13.3-22.1. Eur J Hum Genet. 2003 Feb;11(2):185-8. PubMed PMID: 12634867.

Oral Presentations

Tlili, A. (01/05/2015). *Evidence of mutational heterogeneity of the ALDH7A1 gene in Tunisian families*. International Conference of Engineering Sciences for Biology and Medicine

Hentati, N., Ben Thabett, A., Tlili, A. & al.,, E. (17/10/2014). *New Tunisian Mutation In Pyridoxine Dependent Epilepsy* . Archives of Disease in Childhood

Tlili, A. (15/08/2016). *Mutation spectrum of common deafness: Causing genes in patients with non syndromic deafness in UAE population* . Biotechnology World Convention

Tlili, A. (06/05/2017). *Whole exome sequencing in a UAE family affected with deafness and carrying the p.Cys169Tyr variant.*. Conference

Supervision

PhD. Thesis

- Ms. Walaa Kamal Eldin Ahmad Mohamed. Universitat Autonoma de Barcelona. Since November 15, 2016.

M.Sc. Thesis

- Ms. Mona Mahfood, University of Sharjah. 2017/2018
- Co-supervision of Mrs. Batoul Akram Abi Zamer with Dr. Amir Khan. Univerdity of Sharjah, 2017/2018
- Ms. Sawssan Ben Romdhan, University of Sfax, ENIS, 2011/2012
- Ms. Rim Chaaban, University of Sfax, FSS, 2011/2012
- Ms. Kaouthar Chelly, University of Sfax, FSS, 2011/2012

Courses Taught

Courses taught at University of Sharjah:

Semester/Year	Number of Students	Course Number	Course Title
Spring 2012/2013, Fall 2013/2014, Spring 2016/2017,	74	1450101	General Biology (1)
Fall 2013/2014, Spring 2013/2014, Summer 2014/2015, Summer 2015/2016, Summer 2016/2017	185	1450102	General Biology (2)
Fall 2013/2014, Fall 2014/2015, Fall 2015/2016, Spring 2015/2016, Fall 2016/2017, Spring 2016/2017, Fall 2017/2018	415	1450341	Molecular Genetics
Summer 2014/2015, Summer 2015/2016, Spring 2016/2017, Summer 2016/2017	99	1450399	Field Training
Spring 2012/2013, Spring 2013/2014, Spring 2014/2015, Summer 2014/2015, Spring 2015/2016, Fall 2016/2017, Spring 2016/2017, Fall 2017/2018	405	1450441	Molecular Human Genetics
Summer 2015/2016, Spring 2016/2017	11	1450491	Seminar
Spring 2013/2014, Spring 2014/2015, Fall 2015/2016, Fall 2016/2017, Spring 2016/2017, Fall 2017/2018	63	1450493	Research project
Spring 2012/2013, Summer 2015/2016	35	1450492A	Selected Topics A
Fall 2016/2017	9	1450492C	Selected Topics C
Fall 2017/2018	10	1450546	Molecular Diagnosis of Genetic Diseases
Fall 2017/2018	2	1450599	M.Sc. Thesis

Courses taught at other universities:

Undergraduate Level:

- Formal Genetics
- Molecular Genetics
- Population Genetics

Graduate Level:

- Molecular Developmental Biology
- Tissue culture
- Molecular basis of biodiversity
- Human Molecular Genetics
- Animal models for Human diseases

Academic Advising

Semester	Academic Year	Number of Students
Spring	2013/2014	54
Summer	2013/2014	54
Fall	2014/2015	53
Spring	2014/2015	50
Summer	2014/2015	50
Fall	2015/2016	42
Spring	2015/2016	49
Summer	2015/2016	49
Fall	2016/2017	47
Spring	2016/2017	48
Summer	2016/2017	48
Fall	2017/2018	48

Consulting and Paid Service

Biotechnology Research Center of Libya, 05/06/2008 - 12/06/2008
Training of BRCL staff: Pedigree construction DNA sampling DNA extraction, PCR, Sequencing, Data analysis,

Sequencing Unit, University of Sfax, 01/01/2005 - 31/12/2012
- All sequencing reactions and genetic analyzer problems. - Advice, - Blast analysis, - electrophoregram interpretation and analysis, - Genetic analyzer maintenance etc...

Service

Community

- Coordinator of the Human Genetics team in the research group entitled: "***Human Genetics & Stem cells***", registered at the "Research Institute for Sciences and Engineering ", and hosted by the Office of the Vice Chancellor for Scientific Research and Higher Studies, University of Sharjah. (2015 – Present).
- Member, Research Team involved in the identification and investigation of genes responsible for Human diseases in UAE population. The project is supported by the University of Sharjah.
- Member, Research Team involved in the investigation of the physiopathology of Human diseases and the roles of exosomes in the differentiation of mesenchymal stem cells into adipocytes. The project is supported by the University of Sharjah.
- Member, Organizing Team involved in many Department activities (Exhibition, symposium etc…).
- Participation in different university events (Open day, Research Forum, Second International Conference on Arabs' and Muslims' History of Sciences, innovation week etc…)

- Reviewer in many scientific journals (Journal of Food Science and Technology, BMC Medical Genetics, Gene, Blood Coagulation & Fibrinolysis etc…).
- Member of the Organizing Committee - World Biotechnology 2016, 1st & 2nd World Biotechnology Congress, Sao Paulo, Brazil. 2016 & 2017.
- Member of the scientific and organizing committees- 1st International Symposium of Young Researchers in Biology, Monastir, Tunisia. 2016.
- TV interview "*Amassy program"*, May 17th, 2016 (https://www.youtube.com/watch?v=KkkXdVovUQo)
- Interview with local newspapers, "December 16th, 2015" (http://www.alkhaleej.ae/supplements/page/543d53a2-b167-47ae-8ee7-3df270a8ed5c)

Institutional

- University level:

- Member of the "**Academic Affairs committee**", Sep. 2016 – Aug. 2017,
- Member of the "**Academic Housing committee**", Sep. 2016 – Aug. 2017,
- Member of the "**Ad hoc advisory committee of Sharjah Center for Science and Technology**", 2016 –2017,
- Member of the "**Admission and Registration Audit Committee**", 2015-2016,
- Member of the "**Committee to prepare Detailed Studies on Establishing the Pediatrics Diabetes & Endocrine Center**", 2014-2015,
- Member of the "**Ad hoc internal advisory committee of SIMHR**", 2014-2015,
- Member of the "**Committee to prepare for the upcoming Research Forum (May, 3rd-4th , 2015)**", 2015,

- College level:

- Member of the " **Curriculum and Academic Planning Committee**", Sep 2016 – Aug 2018.
- Member of the "**Recruitment committee**", Sep. 2014 – Aug. 2016,
- Member of the "**College council**", Sep. 2014 – Aug. 2016,
- Member of the "**Chairs' council**", Sep. 2014 – Aug. 2016,

- Department level:

- Chair of the "**Curriculum and Accreditation Committee**", Sep. 2014 – Aug. 2016,
- Chair of the "**Recruitment Committee**", Sep. 2014 – Aug. 2016,
- Chair of the "**Student's Advising & Training Committee**", Sep. 2014 – Aug. 2016,
- Chair of the "**Post-graduate study Committee**", Sep. 2015 – Aug. 2016,
- Member of the "**Curriculum and Accreditation Committee**", Sep. 2016 – Aug. 2018,
- Member of the "**Recruitment Committee**", Sep. 2016 – Aug. 2018,

- Member of the "**Student's Advising & Training Committee**", Sep. 2016 – Aug. 2018,
- Member of the "**Post-graduate study Committee**", Sep. 2016 – Aug. 2018.

Creative Activities

Tlili, A. (21/11/2015 - 26/11/2015). *Innovation week* Other. Sharjah, Not Applicable

Grants

Funded
Seed project (2015). **AED 20 000**

Identification of Genetic and Molecular Basis of hearing loss in two UAE affected families (2017). **AED 200 000**

The role of mir-22 and the IGF-1 in the enhanced differentiation of very small embryonic-like stem cell (CD 133+) into neural progenitor-like cells in the presence of bFGF and EGF. (2016). **AED 80 000**

Not Funded
Identification of Genetic and Molecular Basis of hearing loss in two UAE affected families (2016).

Proposed and Pending
Identification of genetic factors responsible for hearing impairment in 10 patients living in the UAE (2017).

Identification of Genetic and Molecular Basis of hearing loss in one UAE affected family (2017).