# Curriculum Vitae

## Personal information


**First name / Surname:** Abdelbasset Amara

**Nationality:** Tunisian

**Gender:** Male

**Marital status:** Married

**Qualification:** PhD in Biotechnology and Biological Sciences

**Speciality:** Human Genetics and Molecular Biology

**Grade:** Assistant Professor

**Experience :** 9 years after PhD

**h- index :** 9

**Google scholar link :** https://scholar.google.com/citations?hl=en&user=tkrRJ1MAAAAJ

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## Education

**2015: PhD degree in Biotechnology and Biological Sciences**. With a very honourable appreciation. University of Monastir, Tunisia

**2009: Master degree in Genetics**. With a very good appreciation. University of Monastir, Tunisia

**2007: Bachelor degree in Medical Biotechnology Sciences and Techniques**. With good appreciation. University of Monastir, Tunisia

**2003: High School diploma.** Sousse, Tunisia

## Personal statement

I was trained as a geneticist and a molecular biologist in Tunisia and France. My research studies were performed in the laboratories of cytogenetics and molecular genetics, the unit of molecular endocrinology in Farhat Hached university hospital in Sousse, Tunisia and the unit of genomics and metabolic diseases in Pasteur Institute of Lille in France. The aim of my studies was the identification of the genetic causes of several rare genetic diseases such as MODY diabetes and spinal muscular atrophy in Tunisia and Africa. Hence contributing in exploring the genetic characteristics of Tunisians and Africans and developing strategies for the molecular diagnosis of these rare genetic diseases.

## Positions and employment

- ***From 2016 to current***

- **Assistant professor,** Faculty of applied medical sciences, Northern Border university, KSA

- ***2015-2016***

- **Head of studies and trainings,** Private Higher Institute of Nursing of Sousse, Tunisia.
- **Assistant professor,** Private Higher Institute of Nursing of Sousse, Tunisia.

- ***2014-2015***

- **Lecturer,** Private Higher School of engineering and applied technology of Sousse, Tunisia.

## Academic and administrative tasks

- Head of the academic committee, Faculty of medical applied sciences, University of Northern Border region, KSA.
- Vice-head of laboratories committee, Faculty of medical applied sciences, University of Northern Border region, KSA.
- Member in the scientific research committee, Faculty of medical applied sciences, University of Northern Border region, KSA.
- Member in the quality and accreditation committee, Faculty of medical applied sciences, University of Northern Border region, KSA
- Rapporteur of Medical laboratory technology department council, Faculty of medical applied sciences, University of Northern Border region, KSA.
- Head of studies and trainings in higher institute of nursing of Sousse, Tunisia
- Experience in teaching human genetics and molecular biology, medical technical skills, clinical biology, biochemistry, anatomy, physiology, bioinformatics and biomedical research
- Supervising and evaluating dissertations of undergraduate studies

## Scientific interchange and workshops

- "Familial early-onset diabetes is not MODY in Tunisian population". 1st International Symposium of Young Researchers in Biology. **Monastir, Tunisia – May 12-14, 2016. Oral presentation.**
- ''Molecular and genetic analysis of autosomal dominant early-onset diabetes in Tunisian families. European Society of Human Genetics''. **Paris June 2013**. **Poster.**
- "Familial early-onset diabetes is different from classical MODY in several Tunisian families". International forum of biological science and biotechnology, **Sousse, Tunisia – Mars 25-28, 2013. Poster**.

- Participation at EGID symposium (European Genomic Institute for Diabetes) **Lille, France**, **October 10-11, 2012.**
- "Absence de mutations des gènes *HNF1A, HNF4A* et *INS* chez dix patients tunisiens avec un diabète de type MODY". Congress of the Francophone Society of Diabetes, **Geneva, Switzerland – Mars 22-25, 2011. Poster.**
- "Effect of copy number variation of *SMN1* neighbouring genes on SMA phenotype in Tunisian patients". European Human Genetics Conference, **Gothenburg, Sweden – June 12-15, 2010**. **Poster.**
- "Correlation of *SMN2, NAIP, p44, H4F5* and *occludin* gene copy number with spinal muscular atrophy phenotype in Tunisian patients". Eighth days of biotechnology, **Sousse, Tunisia December 2009**.

  **Poster**.
- Participation in workshop called "Statistical analysis of data using SPSS software", **Sousse-Tunisia 2009.**

## Scientific interchange

- Doctoral internship in the **French CNRS research unit UMR 8199**, Genomics and Metabolic Diseases directed by **Pr. Philippe Froguel at Pasteur Institute of Lille, France**. *Research project*: Identification of genetic causes of MODY diabetes in Tunisian patients using classical and next generation sequencing. **2010-2013**
- Scientific collaboration with Neurogenetics Branch, National Institute of Neurological Disorders and Stroke NIH, Bethesda (USA) and Faculty of Medicine and Odontostomatology, University of Bamako, Bamako, Mali. *Research project:* Genetics of Low Spinal Muscular Atrophy Carrier Frequency in Sub-Saharan Africa. **2014.**

## Technical skills and competences

-Techniques of molecular biology such as: DNA extraction, simplex and multiplex PCR, Triple primers PCR, RFLP-PCR, MLPA, Southern blot, Sequencing, Gel and Capillary electrophoresis, FISH, Karyotype and Cell culture.

-Techniques of next generation sequencing: Whole exome sequencing (Illumina platform), RainDance technology for targeted sequencing and whole genome genotyping arrays.

-Techniques of immunoprecipitation and immunomarquage as ELISA.

## Computer and bioinformatics skills

- Microsoft Word, Excel, Power Point, …
- Bioinformatics tools and databases (Ensembl, UCSC genome browser, NCBI, Uniprot…), softwares (SPSS, SeqScape, GeneMarker, genome studio, alamut, genome browser…).
- Linkage analysis, Genotyping data analysis

## Languages

**Arabic** Native speaker

**French** very good level in speaking and writing

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| **English** very good level in speaking and writing<br>**Spanish** medium level in speaking and writing |
| **Membership in societies**<br>Member in the ATDOCS: "The Tunisian society of PhD and PhD students"<br>Member in the ATSB: " Tunisian society of Biological Science" |

## Publications

| | Number of publications during the last 5 years | Number of publications 2012-2019 |
|---|---|---|
| **Q1 journals** | | **3** |
| **Q2 journals** | | **6** |
| **Q3 journals** | **1** | **4** |
| **Q4 journals** | | **4** |
| **Non indexed journals** | **1** | **2** |

# List of Publications

- ☐ *Amara, A., Trabelsi, S., Hai, A., Zaidi, S. H. H., Siddiqui, F., & Alsaeed, S. (2024). Equivocating and Deliberating on the Probability of COVID-19 Infection Serving as a Risk Factor for Lung Cancer and Common Molecular Pathways Serving as a Link*. ***Pathogens***, **13(12), 1070**. https://doi.org/10.3390/pathogens13121070

- ☐ *A Systematic Review of Chronic Diseases and Their Prevalence Among the Population of Northern Borders Province (NBP) in Saudi Arabia.* Alenzi, E, Fatima W, **Amara A *et al. J Multidiscip Health.* 2023, 16:1047-1056.**

- ☐ *Correlation of epigenetic markers with glioblastoma survival and molecular subtypes.* **Trabelsi S, Amara A et al. *submitted 2024.***

- ☐ *Clinical and Genetic Heterogeneity of Familial Early-Onset Diabetes: Case of Six Tunisian Patients Suspected of Maturity-Onset Diabetes of the Young 12*. **Amara A, Trabelsi S et al. International journal of medical research and health sciences. 2020, 9(2): 25-31.**

- ☐ *Difficulties in the diagnosis aetiology of A- β- ketosis-prone diabetes in a North-African adult.* Slim I, **Amara A**, Baba A et al. **Saudi Journal of Biomedical Research. 2016; 1 (1): 1-5.**

- ☐ *Frequency of HNF4A-P.I463V Variant in the Tunisian North-African Population and Its Relation with Diabetes Mellitus.* **Amara A**, Ben Charfeddine I, Ghédir H, et al. **Ir J Pub Health. 2015;** 44 (3): 396-403.

- ☐ *Challenges for Molecular Diagnosis of Familial Early-Onset Diabetes in Unexplored Populations.* **Amara A**, Chadli-Chaieb M, Chaieb L, Saad A, Gribaa M. **Ir J Pub Health. 2014;** 43 (7): 1011-1013.

- ☐ *Multiple Self-healing Palmoplantar Carcinoma (MSPC): a Familial Predisposition to Skin Cancer with Primary Palmoplantar and Conjunctival Lesions.* Mamaï O, Boussofara L, Denguezli M, Escande-Beillard N, Kraeim W, Merriman B, Ben Charfeddine I, Stevanin G, Bouraoui S, **Amara A**, Mili A, Nouira R, H'mida D, Sriha B, Gribaa M, Saad A, Reversade B. **The Journal of investigative dermatology 2015; (135): 304–308.**

- *Genetics of low spinal muscular atrophy carrier frequency in sub-Saharan Africa*. Sangaré M, Hendrickson B, Sango HA, Chen K, Nofziger J, **Amara A**, Dutra A, Schindler AB et al. **Ann Neurol. 2014; 75 (4): 525–532.**

- *Familial early-onset diabetes is not a typical MODY in several Tunisian patients*. **Amara A**, Chadli-Chaieb M, Ghezaiel H, Philippe J, Brahem R, Dechaume A, Saad A, Chaieb L, Froguel P, Gribaa M, Vaxillaire M. **Tunis Med. 2012; 90(12):882-7.**

- *Correlation of SMN2, NAIP, p44, H4F5 and Occludin genes copy number with spinal muscular atrophy phenotype in Tunisian patients*. **A. Amara**, L. Adala, I. Ben Charfeddine, O. Mamaï, A. Mili, T. Ben lazreg, D. H'mida, F. Amri, N. Salem, L. Boughamoura, A. Saad, M. Gribaa. **Eur J Paediatr Neuro. 2012; 16(2):167-74.**

- *A c.3216_3217delGA mutation in AGL gene in Tunisian patients with a glycogen storage disease type III: evidence of a founder effect*. A. Mili, I. Ben Charfeddine, **A. Amara**, O. Mamaï, L. Adala, T. Ben Lazreg, J. Bouguila, A. Saad, K. Limem and M. Gribaa. **Clinical genetics. 2012; 82(6):534-9.**

- *Reduction of palmoplantar keratoderma Buschke-Fischer-Brauer locus to only 0.967 Mb*. Mamaï O, Boussofara L, Adala L, **Amara A**, Ben Charfeddine I, Ghariani N, Sriha B, Denguezli M, Mili A, Belazreg T, Saad A, Gribaa M. **J Dermatol Sci. 2012; 67(3):2102.**

- *Two novel CYP11B1 mutations in congenital adrenal hyperplasia due to steroid 11β hydroxylase deficiency in a Tunisian family*. Ben Charfeddine I, Riepe FG, Kahloul N, Kulle AE, Adala L, Mamaï O, **Amara A**, Mili A, Amri F, Saad A, Holterhus PM, Gribaa M. **Gen Comp Endocrinol. 2012; 175(3):514-8.**

- *Molecular and biochemical characterization of Tunisian patients with glycogen storage disease type III*. Mili A, Ben Charfeddine I, Mamaï O, Cherif W, Adala L, **Amara A**, Pagliarani S, Lucchiarri S, Ayadi A, Tebib N, Harbi A, Bouguila J, H'Mida D, Saad A, Limem K, Comi GP, Gribaa M. **J Hum Genet. 2012; 57(3):170-5.**

- *Macrozoospermia: screening for the homozygous c.144delC mutation in AURKC gene in infertile men and estimation of its heterozygosity frequency in the Tunisian population.* Ghédir H, Gribaa, Mamaî O, Ben Charfeddine I, Braham A, **Amara A** et al. **J Assist Reprod Genet 2015**; 32(11):1651-8. **(IF = 3.142).**

 *Cytogenetic and Molecular Aspects of Absolute Teratozoospermia: Comparison between Polymorphic and Monomorphic Forms*. S. Brahem, H. Elghezal, H. Ghédir, H. Landolsi, **A. Amara**, S. Ibala, M. Gribaa, A. Saad and M. Mehdi. **Urology** 2011;78(6):1313-9

 *Association of the OPRM1 and COMT genes' polymorphisms with the efficacy of morphine in Tunisian cancer patients: Impact of the high genetic heterogeneity in Tunisia?* Chatti I, Creveaux I, Woillard JB, Langlais S, **Amara A**, Ben Fatma L et al. **Thérapie. 2016.** 71(5):507-513. **(IF=2.070).**

 *Circadian heart rate and blood pressure variability in intensive care unit patients*. Ben Lazreg T. Ben Charfeddine I, Mamaï O, **Amara A**, Oualid Naiija et al. **Biological Rhythm Research. 2014;** 45 (2): 285–292.

 *Molecular characterization of piebaldism in a Tunisian family*. Kerkeni E, Boubaker S, Sfar S, Bizid M, Besbes H, Bouaziz S, Ghedira N, **Amara A**, Manoubi W, Gribaa M, Monastiri K. **Pathologie-biologie** 2015; 63 (3):113-116

 *Multiplex Minisequencing of the HBB Gene: A Rapid Strategy to Confirm the Most Frequent b-Thalassemia Mutations in the Tunisian Population*. Ben Charfeddine I , Ben Lazreg T, M'sakni A , **Amara A**, Mlika A, et al. **Hemoglobin 2015**; 39(4):251-5.

 *Genetic study in a Tunisian family revealed IVS1+1G>A mutation in the CHM gene*. Ben Charfeddine I, Ben Lazreg T, Ben Rayana N, **Amara A**, Mamaï O, Knani L, Mili A, M'sakni A, Saad A, Ben Hadj Hamida F, Gribaa M. **Ann Biol Clin 2015**; 73(4):469-73.