



Cherif BEN HAMDA

Male

Born in 13 September, 1985 in Tunis, Tunisia

PhD student / Vice-President RSG-Northern Africa

Professional address

Group of Bioinformatic and
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Education

Thesis (International Project H3ABioNet)

University of Carthage, PhD in Bioinformatics

Doctoral school: *Faculté des Sciences de Bizerte*

Thesis in Bioinformatics (PhD), Started on November 2013 - Ongoing

Title: Integration of OMICS data for the study of phenotypic data and identification of marker disease genes.

Laboratory: Laboratory of medical parasitology, biotechnology and biomolecules.

Group: Group of Bioinformatics and Mathematical Modelling

Institution: Institut Pasteur de Tunis.

University EL MANAR, Tunis

Institution: *Faculté des sciences EL MANAR*

Master of research in Biochemistry and Biotechnology , 2010-2012

Project title: Mechanism of activation of protein "Heme oxygenase - 1 (HMOX-1)" in macrophages infected with *Leishmania major*.

Institution: Institut Pasteur de Tunis.

University EL MANAR, Tunis

Degree in biological sciences (*Faculté des sciences Tunis EL MANAR*), 2005-2009.

Research area

Bioinformatics, cancer, leishmania parasite, archae bacteria, sequence analysis, genome comparative analysis, gene regulation, data integration, next generation sequencing, database and tool development.

Skills

Bioinformatics :

Programming : Perl, Python

Biostatistics tool : R and BioConductor

Operating systems : UNIX/Linux, Windows and Macintosh

Bioinformatics tools : BLAST, CLUSTAL, FootPrinter, Cytoscape, Ori.S ...

Data Bases : (MySQL, PHP) development, DBMS, graphical interfaces development

Others : Adobe cs6 creative suite,

Biology:

Knowledge in biology : Biochemistry, Molecular and cellular biology, Signal transduction, Immunology, Microbiology, Genetics, Gene-expression and Gene regulation analysis, GWAS analysis, Micro-array analysis.

Meetings, Conferences and Workshops participation

- Sao Paulo Advanced School in Oncogenesis and Translational Medicine (ESPCA) + Bioinformatics (Mini-course), February 17 to 22 2014, Ribeirão Preto, São Paulo, Brazil.
- [NGS Data Analysis Workshop held from 5 to 14 March 2014 in Institut Pasteur de Tunis, Tunisia.](#)
- H3ABioNet Postgraduate Bioinformatics Workshop, April 21 to 26 May 2014, Covenant University Bioinformatics Research (CUBRe), Ota, Nigeria.
- [Practical Workshop on HighThroughput Sequencing Data Analysis, 6 to 10 Oct 2014, Okinawa Institute of Science and Technology Graduate University \(OIST\), Okinawa, Japan. \(Poster Presentation\)](#)
- ISCB Africa ASBCB Conference on Bioinformatics, 09 to 11 Mar 2015, Dar es Salaam, Tanzania.(*Oral presentation*)
- [ISCB-RSGs African Student Symposium, March 8th, 2015, Dar es Salaam, Tanzania.](#)
- Medical population genetics and GWAS for complex diseases, 20 to 22 April 2015, The African Institute for Mathematical Sciences (AIMS),Cape Town, South Africa. (*Poster presentation*)
- [African Symposium on Genome Wide Association Studies \(ASGWAS\) for complex disease 2015, 23 to 24 April, False bay College,Cape Town, South Africa.](#)
- ATEM-ii 2015 Conference "Microbes and Ecosystems: The Universal Hidden Force", 8 to 10 May, Hammamet, Tunisia.(*Oral presentation*)

Published and submitted research studies

- The RadioP1 : An integrative web resource for radioresistant prokaryotes. ([Published in InTech](#))
- Assessment of positively selected genes in ionizing radiation resistant archaea (IRRA) with low concentrations of intracellular manganese. ([Submitted in Archea journal](#))

Relevant teaching

- Assistant Lecturer in the international course « Molecular Biochemistry in Health Applications » held from 07 to 26 January 2013 in *Institut Pasteur de Tunis*, Tunisia. **Module name: Functional genomics.**
- Assistant Lecturer in a Master of fundamental Bioinformatics from March to 11th April 2014 at *Institut supérieur de biotechnologies sidi thabet* (ISBST), Tunis. **Module name: Functional genomics.**
- Course Chair & Lecturer in international course « Next generation sequencing analysis and protein modeling bioinformatics course » held from 29 July to 07 August 2015 in Institut Pasteur de Tunis, Tunisia. **Module name : NGS analysis.**
- **Currently** : Teacher of practical works from October 2015 at ISBST, Tunisia. **Module Name : Cellular biology.**

Participation to international projects

- [H3ABioNet project](#) Nicky Mulder (Coordinator) 06/11/2014-15/08/2017
Title : H3ABioNet: a sustainable African Bioinformatics Network for H3Africa
National Institutes of Health under Award Number U41HG006941
[Role: PhD Student](#)

Participation to National projects

Title : Detection of metapneumovirus subtypes from avian birds poultry & the association with avian pathogenic Escherichia coli in Tunisia. RT-PCR/MET-APEC.
Principal Investigator : Jihene Lachheb
Role : PhD Student

Title : *Projet pilote de Creation d'un registre institutionnel de patients atteints de maladies rares.* PCI_REGISTRE.
Principal Investigator : Olfa Messaoud
Role : PhD Student

Title : *Etude épidémiologique et génétique des formes atypiques du diabète en Tunisie : le MODY.* PCI-MODY
Principal Investigator : Rym Kefi
Role : PhD Student