

QUALIFICATIONS & TRAINING

- 2014-2015:** Registration as a PhD student « **bioactive molecules health and biotechnology**» at the Sidi Mohamed Ben Abdellah University, Faculty of Sciences Dhar El Mahraz (USMBA, FSDM) in Fez (Morocco).
- 2012-2014:** **Master degree, Ecology and Environment Conservation for a Sustainable Development** at USMBA, FSDM in Fez (Morocco).
- 2011-2012:** **Bachelor degree** at science of life, option: biology and health at USMBA, FSDM in Fez (Morocco).
- 2010-2011:** **Sophomore** in Life Sciences at USMBA, FSDM in Fez (Morocco).
- 2008 -2009:** **Scientific Baccalaureate** Option Physics Sciences and Chemistry in Fez (Morocco).

PEDAGOGICAL ACTIVITY

- **Natural science support course** at Moulay Rachid High School in Fez (Morocco) from 26/04 to 01/06/2019.
- **Natural science support courses** at El Maghreb Arabi College in Fez (Morocco) from 02/04-12/04 /2019.
- **Participation in the teaching of the practical work: Enzymology and Microbiology** for the academic year at FSDM in Fez (Morocco) on 2018-2019.
- **Natural science level courses "College" and "High School"** in Fez (Morocco) on 2017-2018 and 2018-2019.
- **Participation in the organization of the international conference "Valorization of Natural and Synthetic Biomolecules in Novel Drug-Vector Nanostructures"** at FSDM Fez (Morocco) on April 15-16, 2019,
- **Participation in the organization of the Colloquium Microbiome for health-2018 symposium** at FSDM Fez (Morocco) on 29-30-31 October 2018.
- **Participation in the organization of the 2nd scientific day dedicated to PhD students "Biotechnology, Health and Environment"** at FSDM Fez (Morocco) on 10-11 October 2018.
- **Participation in the workshop organization "Microbiome and health workshop 2017"** at the FSDM Fez (Morocco) on 27-38 October 2017.
- **Participation in the organization of the 1st scientific day dedicated to PhD students "Biotechnology, Ecology, and Valorization of Phyto-resources"** at FSDM Fez (Morocco) on 25 December 2017.

EXPERIENCES

08/10/2018-23/03/2019: Teacher training course of Natural Science, High School Level at the Ryad Safwa School, Fez (Morocco).

05 - 21/11/2018 : Internship training in Rheinbach, Hochschule Bonn-Rhein-Sieg laboratory university of Applied sciences (Germany).

01/09/2014-30/11/2015: Internship in Biotechnology and preservation of natural resources laboratory at the FSDM Fez (Morocco).

03/03/2014-02/08/2014: Internship at the Regional Laboratory for Epidemiological Diagnosis and Environmental Health in Fez (Morocco).

03/03/2014- 02/08/2014: Internship at the Regional Diagnostic Laboratory Epidemiological and Hygienic Environment in Fez (Morocco).

TRAINING

- Participation in "**Workshop Microbiome for Health II 2018**" at FSDM, Fez (Morocco) on 31 October 2018.
- Participation in the workshop "**Microbiome and Health workshop 2017**" at FSDM, Fez (Morocco) on 27-28 October 2017.
- Participation in the workshop "**Methodology of research, techniques and tools of reference management bibliography, communication, writing and scientific publication**" at FSDM, Fez (Morocco) on 2018.
- Participation in the 5th Edition of the "**Workshop on Techniques & Tools for PhD Students for Writing and Scientific Communication**" at ENSA, Fez (Morocco) on May 27, 2017.
- Bioinformatics **Training (H3ABioNet) African Bioinformatics Network Plan for H3Africa** at USMBA, Fez (Morocco) 9 May- 8 August 2017.
- Participation **Training workshops for doctoral students "Tools and Innovative Technological Solutions in Spectroscopic Methods and Analysis"** at the city of innovation USMBA, Fez (Morocco), 12-13 May 2017.
- Participation in "**Practical Workshops in Biostatistics**": at the USMBA, Polydisciplinary Faculty of Taza (Morocco) May 20, 2016.
- Training "**Science Direct, Scopus and Mendeley**" at FST, Fez (Morocco) on March 23, 2016.
- Participation in the "**Training Day on the Use of the Science Direct Database**" at USMBA, FSDM, Fez (Morocco) on March 24, 2015.
- Training **writing scientific articles**: at USMBA, FSDM, Fes (Morocco) on 10-11 March 2016.

PUBLICATIONS

- Hanane Touijer**, Najoua Benchemsi, Mohamed Ettayebi, Abdellatif Janati Idrissi, Bouchra Chaouni, and Hicham Bekkari., **Thermostable Cellulases from the Yeast *Trichosporon sp.*** Enzyme Research, Research Article, ID 2790414 (2019).
- Khadim Dioukhane, **Hanane Touijer**, Anouar Alami, Hicham Bekkari, Najoua Benchemsi., **Study of the antibacterial effect of 5-(4-chlorophenyl)-1H-tetrazole and its oxime precursor against strains isolated from the hospital environment.** Journal of Medicinal and Chemical Sciences **2018** (1) 18-22.

- H. Bekkari, **H. Touijer**, S. Berrada, M. Ettaybi, N. Benchemsi, S. Maniar, A. El Ouali Lalami. **Surveillance of bacteriological quality and resistance to disinfectants and antibiotics in a provincial hospital in Morocco**. J. Mater. Environ. Sci. 7 (1) (2016) 1-8.
- A. El Ouali Lalami, **H. Touijer**, F. El-Akhal, M. Ettayebi, N. Benchemsi, S. Maniar, H. Bekkari. **Microbiological monitoring of environment surfaces in a hospital in Fez city, Morocco**. J. Mater. Environ. Sci. 7 (1) (2016) 123-130.
- Bekkari. H, Benchemsi. N, **Touijer. H**, Berrada. S, Maniar. S, Ettayebi. M, El Ouali Lalami. A, **Microbial Analysis of Air in a Public Hospital in the City of Fez, Morocco**. International Journal of Pharmaceutical and Clinical Research **2016**; 8(6): 533-537. ISSN-0975 1556.

PARTICIPATION IN SCIENTIFIC MANIFESTATIONS

- **Prize** the best poster in the Second Forum of the Biotechnology Cluster at FSDM, Fez (Morocco) on 20 December 2016.
- **Oral Communications**
- **TOUIJER Hanane**, BEKKARI Hicham, ETTAYEBI Mohammed, JANATI IDRISSE Abdellatif, BENCHEMSI Najoua. **«Thermostable cellulases from the yeast *Trichosporon sp*»** Colloquium Microbiome For Health II 2018, FSDM, Fez (Morocco) on 29-30-31 October 2018.
- **TOUIJER Hanane**, BENCHEMSI Najoua, ETTAYEBI Mohammed, JANATI IDRISSE Abdellatif, BEKKARI Hicham. **«Optimization of growth and cellulase enzymes (CMCase, FPase) production by *Trichosporon sp*»** at 2nd international symposium science and technology at the service of the environment, Tetouan (Morocco) on 23-24 June 2018.
- **TOUIJER Hanane**, BENCHEMSI Najoua, ETTAYEBI Mohammed, JANATI IDRISSE Abdellatif, BEKKARI Hicham **«Effect of temperature on the kinetics of production the cellulase enzymes by yeast grown on different carbon sources»**. The first National Colloquium "Biotechnology of Natural Substances and the Environment, Khenifra (Morocco) on 19 April 2018.
- **TOUIJER Hanane**, BENCHEMSI Najoua, ETTAYEBI Mohammed, JANATI IDRISSE Abdellatif, BEKKARI Hicham **"Study of microbial ecology of *gymnopleurus sturmi*, dung ruminants and enzymatic production by the yeasts isolated"**. The First National Forum: Environmental Biotechnology Taza, Morocco, 22 November 2016.
- **TOUIJER Hanane**, AMHARRAR Ahmed, BEKKARI Hicham, BERRADA Sanae, ETTAYEBI Mohammed, BERRADA Sanae, EL OUALI LALAMI Abdelhakim. **Health risks related to the use of drinking water and sterile water at hospital in Fez city**. International Congress Water, Recycling and recovery of waste, ERVD 2, Fez, Morocco 2/3 June 2014.
- **TOUIJER Hanane**, BEKKARI Hicham, BERRADA Sanae, EL-AKHAL Fouad, ETTAYEBI Mohammed, BENCHEMSI Najoua, MANIAR Saâd, EL OUALI LALAMI Abdelhakim. **Antibioticrestance of the germs isolated from the hospital environment**. International Congress. Biotechnology at the service of society BIOSes 2015 Fez, Marocco, 22/24 October 2015.
- Abdelhakim EL OUALI LALAMI, **Hanane TOUIJER**, Fouad EL-AKHAL, Sanae BERRADA, Mohamed ETTAYEBI, Najoua BENCHEMSI, Saâd MANIAR, Hicham BEKKARI. **Nosocomial Infection Surveillance: Microbiological monitoring of environment surfaces in a hospital in Fez city, Morocco**. International Symposium Water, Recycling and recovery of waste. ERVD 3, Fez, Morocco 28/29 Octobre2015

- **TOUIJER Hanane**, BEKKARI Hicham, BERRADA Sanae, ETTAYEBI Mohammed, BENCHEMSI Najoua, MANIAR Saâd, EL OUALI LALAMI Abdelhakim. **Evaluation of the contamination of water used in hospitals: Effects of antibiotics and common disinfectants on bacteria isolated**. International Congress Water, Recycling and recovery of waste, ERVD 3, 28/29 Octobre 2015, Fez, Morocco.
 - **Posters Communications**
- **TOUIJER Hanane**, BENCHEMSI Najoua, ETTAYEBI Mohammed, JANATI IDRISSE Abdellatif, BEKKARI Hicham «**Improvement of cellulases enzymes activity produced by yeast the genus Trichosporon**». Trans mediterranean Colloquium On Heterocyclic Chemistry (TRAMECH IX 2017) Fez (Morocco) on 22-25 November 2017,
- **TOUIJER Hanane**, BENCHEMSI Najoua, ETTAYEBI Mohammed, JANATI IDRISSE Abdellatif, BEKKARI Hicham. "**Ability of yeast strains to degrade the complex substrates at high temperature**". Second Forum of the Biotechnology Pole, at FSDM Fez (Morocco), 20 December 2016.
- **TOUIJER Hanane**, BENCHEMSI Najoua, ETTAYEBI Mohammed, JANATI IDRISSE Abdellatif , BEKKARI Hicham. **Enzymatic characterization of yeast strains isolated from the gut of a coprophage "Gymnopleurus sturmi"**. The 3rd international conference "Microbial Biotechnologies for development" MICROBIOD 3, Mohammadia, (Morocco) 24-26 October 2016.
- **H.Touijer**, M. Ettayebi, A. Janati Idrissi, N. Benchemsi, L. Jamai, H. Bekkari. **Valuation of intestinal microflora Scarabaeidae dung in the biodegradation of plant biomass and bioenergy production**. At the Forum Biotechnology pole at FSDM Fez (Morocco) 13 November 2015.
- **TOUIJER Hanane**, EL OUALI LALAMI Abdelhakim, BERRADA Sanae, MANIAR Saâd, ETTAYEBI Mohammed, BENCHEMSI Najoua, BEKKARI Hicham. **Microbiological quality of air in hospitals**. International Symposium Water, Recycling and recovery of waste. ERVD 3, Fez (Morocco) 28/29 October 2015.

PRACTICAL

- **Microbiology:** Bacterial culture, quality control (food and medical microbiology), DST / antibiotic resistance.
- **Genetics and molecular biology:** bacterial transformation, purification of plasmid DNA, DNA analysis by electrophoresis gel, PCR.
- **Biochemistry:** Enzymology, Techniques separation and quantification of protein.
- **Animal physiology:** Hematology.

COMPUTER SKILLS

- **Operating System:** WINDOWS Linux.
- **Office:** Word, Excel, PowerPoint.
- **Software:** SPS, SIG, Winedt, Latex, SigmaStat, PlantNote, Zotero, Mendeley, chromas ApE, Chromas, Nemrodw, GraphPad.

LANGUAGES

- **Arabic:** First language.
- **French:** Good.
- **English:** Level B1