



Khouloud Boujnah

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EDUCATION AND TRAINING

Industrial P.hD in MEDICAL AND SURGICAL BIOTECHNOLOGIES

Department of Clinical and experimental medicine, University of Messine Policlinico "G.Martino" [02/2019 – Current]

Address: Messine (Italy)

Thesis: Genomic risk profiles for tumor pathologies

Coordinator: Prof. Giovanni Squadrito

Supervisor : Prof. Saverio Alberti

Industrial Supervisor : Prof. Emanuela Guerra

Master Bionalysis and Control Product Quality Paramedical

Higher Institute of Applied Sciences and Technology of Mahdia [15/09/2015 – 30/12/2017]

Address: Mahdia (Tunisia)

Thesis : Molecular analyzes of the bacterial community by the metagenomic "DGGE" method of soil, treated water, and activated sludge used for the cultivation of olive trees "Chemleli" variety

Supervisors: Prof. BEN MANSOUR Hedi and BEN SALMA Walid

Industrial Supervisor: Dr. MEHRI Inès

Master : Chemistry and pharmaceutical technology

Department of Chemical Sciences, biological, pharmaceutical and environmental of MESSINA University [19/09/2016 – 15/02/2017]

Address: Messine (Italy)

Student exchange ERASMUS PLUS

Master : Biotechnology for health

Policlinico Universitario di Messina [15/02/2016 – 15/08/2016]

Address: Messina (Italy)

Student exchange ERASMUS PLUS

Diploma in licence applied agroalimentary and food: food quality control

Higher Institute of Applied Sciences and Technology of Mahdia, Tunisia [15/09/2012 – 15/05/2015]

Address: Mahdia (Tunisia)

Thesis: Hygiene and food safety of dishes meals provided by Tunisie Catering (HACCP implementation)

Supervisors: Prof. HADJ ROMDHANE Youssef

Industrial Supervisor: Dr. BOUBAKRI Nouredine

High school diploma : experimental sciences

High school Saïd Boubaker Moknine [15/09/2008 – 30/06/2012]

Address: 5050 Moknine, Monastir (Tunisia)

WORK EXPERIENCE

Next Generation Sequencing and Bioinformatic Analysis

Dante Labs SRL [01/03/2021 – 30/04/2021]

City: L'Aquila

Country: Italy

- WGS and WES library preparation and sequencing with NextraSEQ 6000 illumina
- Bioinformatic analysis of sample (bcl2Fastq, converting tools from Fastq file to vcf file , Annotation softwar like dragon and annovar, Report Generation ... etc)

National University Students Exchange

Università degli Studi "G. d'Annunzio" Chieti - Pescara [07/05/2020 – 30/04/2021]

City: Chieti

Country: Italy

Apprenticeships training. Working on cancer drivers (Cell culture in vitro and xenograft in vivo, Transcriptome and proteomic analysis...) and research of genes invoved in Hematohidrosis disease through whole genome sequencing of affected families.

Industrial P.hD Student " Researcher"

Oncorx Biotech S.r.l [06/05/2019 – 06/05/2020]

Address: (Italy)

City: LANCIANO

Industrial training at laboratory of ONCOXX Biotech S.r.l that are specialized in the development of antibodies that treat tumors by which they are already demonstrated and they are concluding the engineering of antibodies in forms that can be administered to patients for soon future of finale drugs product.

I practiced analysis techniques (Western Blot, Confocal, Cloning Crispr Cas9 / siRNA, Flow Cytomerty FACS), cell culture of various cancerous tumors in vitro, and in vivo experimentation.

Controller quality of alimentary product and financial management

Confectionery and kitchen supplies company SAMIRATV [01/04/2018 – 07/02/2019]

City: Moknine, Monastir

Country: Tunisia

- A responsible of control quality of raw and finale products on sale
- As a manager of the financial sector of industry (order of aliments products and kitchen supplies from manufactory, gestion and organization of sales and purchase prices on software, preparation of monthly financial reports).
- Establish communication with industrial suppliers and order management
- preparation of customer web-orders

Scientific laboratory technician

APAE Environmental Analysis and Process Research Unit [01/08/2017 – 30/12/2018]

Address: Route Rejiche , (Tunisia)

City: Mahdia

Country: Tunisia

- Responsible for the organization of life in the research laboratory, maintenance of physicochemical (research of dco and dbo of water, measurement of turbidity...) and molecular analysis devices.
- Responsible for microbiological (electrophoresis, DGGE, microbiology culture, ...) biochemical analyze S.

Laboratory technician

The Centrale Laitière de Mahdia VITALAIT [01/08/2017 – 30/03/2018]

City: Mahdia

Country: Tunisia

Molecular microbiology and physicochemical analysis of treated water from the treatment plant (activated sludge, water before and after treatment).

Quality controller of Pharmaceutical product and Nutrition

Water Research and Technologies Center (C.E.R.T.E) Water Treatment and Recycling Laboratory. [01/03/2017 – 30/11/2017]

Address: (Tunisia)

City: Ariana

Country: Tunisia

During my thesis intership I performed molecular microbiological analyzes of the microbial community present in the soil and treated waters from Mahdia Dairy Center wastewater treatment plant using the DGGE denaturing gradient gel electrophoresis technique followed by sequencing. While following the growth of olive tree plants irrigated by the treated water during the experiment reinforced by biological and physicochemical analysis.

Drugs quality controller

AFRIMED Tunisian Veterinary Pharmaceutical Laboratory [15/08/2016 – 30/09/2016]

Address: (Tunisia)

City: Sousse

Country: Tunisia

During my internship in AFRIMED pharmaceutic industry, I Control quality of drugs like " ENROFLOX " , "OXYMED 50%" ... etc during all fabrication step from raw material reception til obtaintion of final packaged product:

- The characterization of raw materials before their integration into the production process: purity (GC – GC/MS - CCM), concentration, water content, grain size (Granulometry Laser), HPLC
- Checking the contents, stability, physicochemical properties of drugs (Dissolution Test (USP1)
- Toxicology and bioavailability studies; LC/MS/MS
- Complete control of cleaning and all contaminants: active ingredient, excipients, detergents, recombination products (Carbone organique total COT).

Hygienist and Food safety controller

Campany of Tunisie Catering NEWREST [01/02/2015 – 30/05/2015]

Address: (Tunisia)

City: Monastir

Country: Tunisia

During my graduation Internship titled "Hygiene and food safety of the prepared meals/cooked dishes provided by Tunisie Catering" I :

- Performed a Control quality during all the proccess of fabrication from the raw meal till the finished product, by taking samples and insuring stability of freezed meals after preparation.
- Ensured the application of PRP preliminary activities for the hygiene requirements of local , equipment, transport and storage and personnel
- Application of 5M to study BPH and foud solutions
- HACCP system installation

Hygienist and Food safety controller

Industry Maiami Gelato [24/06/2014 – 20/07/2014]

Address: (Tunisia)

City: sahline

Country: Tunisia

During my intership I ensured:

- The control quality of food by taking samples for the microbiological exams of the raw material from reception till the final product, physico-chemical analysis, starting the application of HACCP system in the industry, Study the stabilization of final product at -20°C
- The control of application of BPF and BPH of the establishment and workers.

Hygienist and Food safety controller

Hygiene service at Farhat Hached University hospital [01/06/2014 – 24/06/2014]

Address: (Tunisia)

City: Sousse

Country: Tunisia

During my intership I ensured:

- The control quality of food by taking samples for the microbiological exams of the raw material from reception till the final product
- the control of application of BPF and BPH of the establishment and workers.

Hygieniste and Microbiologist technician

Microbiology Laboratory of CHU TAHER SFAR University Hospital [16/08/2013 – 31/08/2013]

Address: (Tunisia)

City: Mahdia

Country: Tunisia

During my intership training I performed varie exams on Urine sample of patient for detection on urine infection UI:

- **Urine Cyto bacteriological Examination (UCBE):** a urine culture with a count of germs (bacteriuria), and a cytological examination to assess leukocyturia and the figurative elements of urine (red blood cells, crystals, cylinders ...) and the identification of bacteria was based on characters morphological, cultural, biochemical (galleries Api 20E, Api 20Staph), and antigens (streptococcal agglutination)
- **Sensitivity to antibiotics** using the technique of broadcasting discs in agar medium followed by an antibiogram interpretation second CA-SFM.

Hygienist and Food quality controller

Industry of Production of Poultry Meat of Moknine « SOPROVAM - DHAYAATI » [01/08/2013 – 15/08/2013]

Address: (Tunisia)

City: Moknine, Monastir

Country: Tunisia

During my interships I ensured :

- Control quality throughout the production chain of aliments from the reception of raw material (poultry) to finished product.
- A quotidien control of good hygiene practice of the establishment as well as of the worker
- Good manufacturing practices and sampling for microbiological analyzes
- hazard and critical point analysis for amelioration of HACCP system

PUBLICATIONS

Functional inactivation of E-cadherin drives EMT-less metastasis

[2020]

S. Alberti, E. Guerra, R. Lattanzio, M. Ceci, **K. Boujnah**, S. Briguori, V. Garbo, A. Moschella, D.F. Altomare, R. Depalo, M.T. Rotelli, A. Picciariello, M. Trerotola

accepted for Proffered Paper presentation at the ESMO Virtual Congress 2020, Science Weekend, to be held 19-21 September 2020. Annals of Oncology, 31-S4:19770

Trop-2 inactivation of E-cadherin drives triple negative breast cancer relapse

[2020]

Saverio Alberti, Marco Trerotola, Valeria Relli, Rossano Lattanzio, Martina Ceci, **Khouloud Boujnah**, Valeria Garbo, Antonino Moschella, Patrizia Querzoli, Massimo Pedriali, Laura Antolini and Emanuela Guerra

accepted for Spotlight Presentation (Abstracts presented at International Congresses) at the 2020 San Antonio Breast Cancer Symposium, December 8-12, 2020.

Trop-2 cleavage by ADAM10 is an activatory switch for cancer growth and metastasis

[2021]

Marco Trerotola; Emanuela Guerra; Zeeshan Ali; Anna Laura Aloisi; Martina Ceci; Pasquale Simeone; Angela Acciarito; Paola Zanna; Giovanna Vacca; Antonella D'Amore; **Khouloud Boujnah**; Valeria Garbo; Antonino Moschella; Rossano Lattanzio; Saverio Alberti. Neoplasia. Volume 23, Issue 4, April 2021, Pages 415-428.

CERTIFICATION OF INDIVIDUAL FORMATION

Virtual Flow Cytometry Training Courses: Basics of Flow Cytometry

[14/01/2021 – 14/01/2021]

Professors Rachael Walker & Derek Davies.

Course for the use of liquid nitrogen

[13/06/2019]

A formation organized by the Structure CAST of University of Chieti

Formation on The typical way to actively search for new ideas for the initiative "MORAINE

[17/07/2018 – 27/07/2018]

I obtained a certificate from my participation to this formation that organized by the The Ministry of Vocational Training and Employment

L'intelligence comportementale pour la soutenance

[20/04/2017]

A certificat of formation obtained from Center 4C with collaboration of University of Monastir, Tunisia

Formation on Italian Language

[08/07/2016]

The Level B1 certificate obtained from CLAM "Centro linguistico d'Ateneo Messines"

Formation on french language

[24/05/2015 – 24/08/2015]

Level C certificat in French language obtained from Academy ALQALAM Formation center

DIGITAL SKILLS

Microsoft Excel / Microsoft Word / Microsoft Office / Microsoft Powerpoint / FlowJo / Graph Pad Prism 7 / FinchTV / Cytoscape / GSEA_4.1.0 / ApE_win_current / Programmin language PYTHON / Jupyter Notebook / SAMtools / BCFTools / Human genome analysis(BWA-GATK-ANNOVAR Workflow)

JOB-RELATED SKILLS

Job-related skills

- Control of food quality, hygiene, microbiological analysis.
- Knowledge regarding management systems: Quality : ISO 9001, Food Safety : ISO 22000, Environment : ISO 14001
- Next Generation sequencing: NEXTRASEQ 6000 illumina
- Bioinformatic Analysis : Bwa, SAMtools, Bcftools, Annovar, Python, Jupyter Notebook , Pycharm Programming.

LANGUAGE SKILLS

Mother tongue(s):

Arabic

Other language(s):

French

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Italian

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION B2 SPOKEN INTERACTION C1

ORGANISATIONAL SKILLS

Organisational skills

- Management and organizational skills. Ability to work in stressful situations (during my poultry laboratory internship).

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

- Ability to work in group matured in multiple situations in which it is essential to collaboration.
- Ability to adapt to a multicultural environment.

OTHER SKILLS

Other skills

Drawing, discovering new technologies, traveling, reading, sports, learning new language like Germanic