

CURRICULUM VITAE

MS. Awatif BOUMAZA

First name / Last name	Awatif BOUMAZA
Date and place of birth	August 18, 1982, Constantine
Gender	Female
Nationality	Algerian
Address	BP N°18 Ain Abid, 25015, Constantine, Algeria
Function	Teacher researcher (Associate professor)
Institution	University of 8 Mai 1945, BP 401 Guelma 24000 – Algeria
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Education

2010-2017	PhD , University of Mentouri, Constantine, April, 2017, Major: Cell Toxicology, Minor: Cell and Molecular Biology. Dissertation: “Analytical and epidemiological study of the toxicity of pesticides used in Eastern Algeria”
2005-2010:	Bachelor degree in Translation & Interpreting: English-French-Arabic, University of Mentouri, Constantine, June 2010.
2006-2009:	Magister degree: University of Mentouri, Constantine, November, 2009, Major: Cell Toxicology, Minor: Cell and Molecular Biology Thesis: “Effect of some antioxidants on oxidative stress parameters and the related organs: <i>in vivo</i> study on diabetic rats”
2000-2005	BSc , University of Mentouri, Constantine, June, 2005, Major: Microbiology, Minor: Cell and Molecular Biology
2000:	Scientific Baccalaureate. Major: Nature and Life Sciences

Training/qualifications

2017	One month (20 March – 21 April) training on phytochemical analysis by LC-MS and HPLC, and <i>in vitro</i> tests on mitochondria, in FABAL, Department of toxicology, Age university, Izmir, Turkey.
2015-2016	Four months (11 December – 11 April) advanced training course /research work using genotoxicity tests (Micronucleus test, Chromosome Aberration test, Sister Chromosome Exchange), Higher Institute of Health Sciences, University of Hassan 1 ^{er} , Settat, Morocco.
2014	International Training Workshop on fermentation at the Institute of Biotechnology of Sfax, Tunisia, during the period from 2 to 5 June 2014
2013 -2014	Four months (November – February) training course /research work using genotoxicity tests (Micronucleus test, Chromosome Aberration test, Sister Chromosome Exchange), Laboratory of Mutagenesis, Genotoxicity and Immunology, Faculty of Sciences and technologies. University of Hassan 1 ^{er} , Settat, Morocco.

2012	Level 3 Certificate in American English, Center of Universal Languages (ULC) Constantine, Algeria. Completion Certificate in Research Paper Authorship and English Technical Writing. (Instructor: Dr. Charles E. Dunlap). University of Mentouri, Constantine, Algeria.
2011	International Training Workshop on molecular cloning and gene expression in bacteria. Laboratory of analysis, treatment and recovery of environmental pollutants and products, Faculty of Pharmacy, University of Monastir – Tunisia.
2004	One month technician-level training course in the biomedical analysis laboratory at El-khroub Hospital – Constantine, Algeria.

Teaching experience: (Course: C, Directed Work: DW, Laboratory Course: LC)

April 2017 – current	Undergraduate Courses Taught: -Metabolic regulation (C and DW).
Associate Professor	
University of 8 Mai 1945, Guelma, Algeria	Graduate Courses Taught to Master's Degree students: - Genetic Toxicology (C). - Cell Culture Techniques (C).
	Graduate Courses Taught to Doctoral degree students: - Tools for Environmental Assessment and Management (C). - Oxidative stress: related pathologies and biomarkers of risk assessment (C).
	Conferences for Doctoral degree students: - Medicinal plants: Toxicology and Therapy - Biological activities of natural molecules: Phenolic compounds and their effects - Pollution and the environment: Assessment biomarkers

December 2010-April 2017	Undergraduate Courses Taught: - Metabolic regulation (C + DW) - Enzymatic kinetics and biochemical reactors (C + DW). - Cell and Molecular Biology (C) - Microbiology (LC) - Biochemistry (DW) - English and scientific expression (C + DW).
Assistant professor University of 8 Mai 1945, Guelma, Algeria	Graduate Courses Taught to Master's Degree students: - Genetic Toxicology (C). - Cell Culture Techniques (C). - Microbial genetics (C) - English and scientific writing (C + DW). - Immunotherapy (C + DW). - General Biochemistry (DW)

2009-2010	Undergraduate Courses Taught:
Lecturer University of Mentouri Constantine, Algeria	- Research techniques and terminology (C) - Biology (C and DW)

2007-2009	Undergraduate Courses Taught:
Teaching Assistant University of Mentouri Constantine, Algeria	- Physiology of relations (C) -Animal Biology (LC) -Plant biology (LC)

Supervising experience

2010-Current

University of 8 Mai
1945, Guelma,
Algeria

Supervising undergraduate dissertations
Assisting with program development and student assessment
Supervising and Advising students' academic work
Assessment of students' presentations
Supervising academic research

Professional Activities

**September 2016-
Current**

University of 8 Mai
1945, Guelma,
Algeria

- **Head of the Department** of Biology,
 - **President of the Disciplinary Committee in the Department** of Biology.
 - **Member of the Disciplinary Committee of the Faculty** of Natural and Life Sciences and Earth and Universe Sciences.
 - **Member of the Scientific Council of the Department** of Biology,
 - **Member of the Scientific Council of the Faculty** of Natural and Life Sciences and Earth and Universe Sciences.
 - **Governor (Board Permanent Member) of the Faculty** of Natural and Life Sciences and Earth and Universe Sciences.
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2014-2016

University of 8 Mai
1945, Guelma,
Algeria

- Director of studies in the Department of Biology/ Head of Department assistant
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Non academic work experience:

2008-2010:

Medical Laboratory Assistant at the laboratory of biomedical analyses at the Public Health Institute (E.P.S.P). Ain Abid – Constantine, Algeria.

Research

Refereed Journal Articles

2016

A. Boumaz a, K. Lalaoui, M. Khallef, H. Sbayou , H. Talbi , A. Hilali. Assessment of Cytotoxic and Genotoxic Effects of Clodinafop-propargyl Commercial Formulation on *Allium cepa* L. *J. Mater. Environ. Sci.* **7 (4) (2016) 1245-1251. ISSN : 2028-2508**

Awatif Boumaza, Samira Ferdi, Houda Sbayou, Fatima Khelifi Touhami, Mohamed Habib Belmahi and Cherifa Benlatreche. Therapeutic Effect of *Zygophyllum cornutum* on Metabolic Disturbances, Oxidative Stress in Heart Tissue and Histological Changes in Myocardium of Streptozotocin-induced Diabetic Rats. *Journal of Life Sciences* **10 (2016): 192-197** doi: 10.17265/1934-7391/2016.04.004.

H. Sbayou, **A. Boumaza**, A. Hilali, S. Amghar. Antioxidant properties of *Artemisia herba-alba* Asso., *Mentha pulegium* L. and *Origanum compactum* Benth. essential oils. *J. Mater. Environ. Sci.* **7 (8) (2016) 2908-2912. ISSN : 2028-2508**

HOUDA SBAYOU, **AWATIF BOUMAZA**, ABDERRAOUF HILALI, SOUAD AMGHAR. CHEMICAL COMPOSITION AND ANTIBACTERIAL AND ANTIOXIDANT ACTIVITIES OF *THYMUS SATUREIODES* COSS. ESSENTIAL OIL . *International Journal of Pharmacy and Pharmaceutical Sciences* Vol 8, Issue 10, 2016. ISSN- 0975-1491 .

- 2015** H. Talbi, A. Boumaza, K. El-mostafa , J. Talbi, A. Hilali. Evaluation de l'activité antioxydante et la composition physico-chimique des extraits méthanolique et aqueux de la *Nigella sativa* L. (Evaluation of antioxidant activity and physico-chemical composition of methanolic and aqueous extracts of *Nigella sativa* L. *Mater. Environ. Sci.* **6 (4) (2015) 1111-1117** ISSN : 2028-2508

Refereed Proceeding

- 2015** **Awatif Boumaza**, Abderraouf Hilali, Hayat Talbi, Houda Sbayou. **Mutagenic *in vitro* Activity and Genotoxic Effect of *Zygophyllum cornutum* Methanolic Extract.** World Academy of Science, Engineering and Technology. International Journal of Bioengineering and Life Sciences Vol:9, No:1, 2015
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- 2011** Khelifi Touhami Fatima, Abidli Nacira, Ihoual Safia, Kara Ali ahiba, **Boumaza Awatif**, Lekhmissi Arar. The antioxidant activity and free radical scavenging potential of two medicinals plants *Salvia officinalis* L. and *Phlomis samia* L. *Planta Medica*.(2011). Vol: 77(12):P215.

Conferences presentations

- 2016** Nedjoud GRARA, Fadila KHALDI, **Awatif BOUMAZA**, Wafa BENDOKHANE, Sabrina GOUNACHE, Saida MEZRICHE. Physiological and morphological characterization of the toxicity of nanoparticles (Fe₂O₃ and Al₂O₃) on the snail (*Helix aspersa*) bioindicator of pollution of the environment. **International Conference on Toxicology and Health ICTH. 28-29 November 2016, Guelma, Algeria.**
- GRARA, Fadila KHALDI, Halima CHEGHIB, Bochra FECIH, **Awatif BOUMAZA**. Depollution of waste water from Oued El-Hammam (Guelma) by Nanoparticles ZnO and Fe₂O₃. **International Conference on Toxicology and Health ICTH. 28-29 November 2016, Guelma, Algeria.**
- Nedjoud GRARA, Fadila KHALDI, Amel BENAMARA, Zineb ZENIR, Selma ABDELMADJID, Manel BOULQUEDNINE, **Awatif BOUMAZA**. Physiological study of the toxicity of manufactured nanoparticles in a bioindicator of environment pollution. **International Conference on Toxicology and Health ICTH. 28-29 November 2016, Guelma, Algeria**
- Nedjoud GRARA, Fadila KHALDI, Sabrina BOUCHLAGHEM, **Awatif BOUMAZA**, Amira BOUCHLAGHEM, Marwa BOUREGAA. Detoxification of wastewater (STEP Guelma) by nanoparticles and water lenses.**International Conference on Toxicology and Health ICTH. 28-29 November 2016, Guelma, Algeria**
- 2013** **Awatif BOUMAZA**, Mode of action of Atrazine and its detoxification by a resistant plant: *Zea mays*. **International Seminar, Agronomic Issues in Arid and Semi-Arid Regions (SIAZA) 2013. Batna, Algeria.**
- 2012** **Awatif BOUMAZA**, Samira FERDI, Fatima KHELIFI TOUHAMI, Nacira ABIDLI Mohamed Habib BELMAHI, Cherifa BENLATRECH, Alkacem LEZAAR. Therapeutic Effect of *Zygophyllum cornutum* on Metabolic Disturbances, Oxidative Stress in Heart Tissue and Histological Changes in Myocardium of Streptozotocin-induced Diabetic Rats. **International Seminar on Cancer, Cellular Stress and Bioactive Substances, 23-24 September 2012. Jijel University**
- Awatif BOUMAZA**. Phytochemical screening of *Zygophyllum cornutum* methanol extract. **International Chemistry Day 12-13 December 2012 Mentouri Constantine University**
- 2011** **Awatif BOUMAZA**. Oxidative stress, diabetes and its complications: a phytotherapeutic approach. **Vth International Day of FMC. April 30, 2011. Faculty of Medicine, Mentouri Constantine University.**
- Awatif BOUMAZA**, Fatima KHELIFI TOUHAMI, Nacira ABIDLI, Samira FERDI,

Alkacem LEZAAR. Effect of *Zygophyllum cornutum* COSS against type 1 diabetes and related organs. Effect of *Zygophyllum cornutum* against type 1 diabetes and related organs. **3rd International Seminar on Animal Biology**. May 8, 9 and 10, 2011. Mentouri Constantine University

2010

Awatif BOUMAZA, Fatima KHELIFI TOUHAMI, Fahima TALHI. The effect of *Zygophyllum cornutum* coss methanolic extract on clinical parameters and renal oxidative stress in type 1 diabetic models. **1st International Francophone Congress of FIFBCML1XXIV National Day of Clinical Biology**. April 28-29, 2010. Medina Hammamet. Tunisia

Awatif BOUMAZA, Samira FERDI, Fatima KHELIFI TOUHAMI, Nacira ABIDLI Mohamed Habib BELMAHI, Cherifa BENLATRECH, Alkacem LEZAAR. Therapeutic Effect of *Zygophyllum cornutum* on Metabolic Disturbances, Oxidative Stress in Heart Tissue and Histological Changes in Myocardium of Streptozotocin-induced Diabetic Rats. **2nd International Biotechnology Symposium**, April 27, 2010. Oran, Algeria.

Awatif BOUMAZA. Phytochemical study and evaluation of the biological activities of an Algerian medicinal plant: *Zygophyllum cornutum*. **International Seminar of Plant Biology and Ecology SIBVE**. November 22-25, 2010. Constantine. Algeria.

Awatif BOUMAZA. **1st International Conference on Natural Health 7-8-9 December 2010** University Abdelhamid Ibn Badis Mostaganem

Awatif BOUMAZA. Samira FERDI, Fatima KHELIFI TOUHAMI. Biological activities and therapeutic effects of a Saharan medicinal plant: *Zygophyllum cornutum* **Second International Seminar on Medicinal Plants**. SIPM'2010 December 14-15, 2010 Kasdi Merbah University of Ouargla. Algeria.

2009

Awatif BOUMAZA, Fatima KHELIFI TOUHAMI, Nacira ABIDLI, Alkacem LEZAAR, Bilal MOUSSAOUI, Fahima TALHI, Houria BOUBALLOUA. Biochemical study of the effect of *Zygophyllum cornutum* methanolic extract against metabolic disturbances and renal oxidative parameters in Type 1 diabetic models. **International Seminar of Biochemistry and Molecular Biology**. October 13-14, 2009. Constantine Algeria.

Research projects

2016-Current **Researcher member in the research project CNEPRU** : «Impact of Xenobiotics on Human Health, Ecosystems and Bio-remediation Strategies»

Conference Activities

2018 **Scientific Committee Member**. The First International conference on Agrifood "SIA 2018" 16-17 October, 2018. University of 8 Mai 1945, Guelma, Algeria

Organizing Committee Member. The First International conference on Agrifood "SIA 2018" 16-17 October, 2018. University of 8 Mai 1945, Guelma, Algeria

2016 **Conference Chair**, the First International Conference on Toxicology and Health. November 28-29, 2016. University of 8 Mai 1945, Guelma, Algeria

Research interests

- Cytogenetic and mutagenesis
- Molecular and cellular toxicology
- Oxidative stress.
- Phytotherapy and bioactive substances.
- Environment and pollution
- Human Exposure Assessment/ Risk Assessment

Research skills

Blood cells culture
Genotoxicity and mutagenicity tests
Using and interpreting LCMS and HPLC
Statistical analysis with SPSS
Probit analysis
Zotero reference management software
Computer (Word, Excel, Power point..etc)

Languages

Arabic: Native language
French: Fluent Level, speaking, reading and writing
English: Good Level, speaking, reading and writing

References Professor

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Pr. Mohamed Habib BELMAHI, Department of Toxicology, Faculty of Medicine, University of Mentouri, Constantine 25000, Algeria. E-mail: beltox25@gmail.com. Mob: +213 661 553 414

Pr. Korichi LALAOUI. Laboratory of molecular and cell biology, University of Mentouri, Faculty of natural and life sciences, Department of Animal Biology, Constantine, Algeria. E-mail: lalaouiko@yahoo.fr . Mob: +213 660323654