

Curriculum Vitae



Personal Statement

Name: Samir

Surname: Abbès

Nationality: Tunisian

Date of birth: 11 - 02 - 1973

Place of birth: Gafsa/Tunisia

Sex: Male

Marital Status: Married

Child: 4

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Contact Information

- **Address work 1:** Higher Institute of Biotechnology of Beja (ISBB), Habib Bourguiba Street, BP: 382; Beja 9000, University of Jendouba, Tunisia.

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- **Address work 2:** Unit of Immunology, Environmental Microbiology and Cancerology (IMEC), Faculty of Sciences Bizerte, Tunisia. Zarzouna 7021, Bizerte, Carthage University, Tunisia

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Academic Qualification

1. **2014-until now: University accreditation in Biological Sciences**

University of Jendouba, Tunisia.

Entitled: Food contaminants: Immunological effects and Detoxification

Biotechnology using Lactic acid Bacteria

2. **2003-2007: Ph.D in Biological Sciences,** University of Carthage,

Bizerte/Tunisia.

Entitled: Biotoxicological effects of the Tunisian montmorillonite clay and its preventive role against mycotoxins-contaminated feed in mice

3. **2000-2002: Master in Environmental Sciences**, University of Carthage, Bizerte/Tunisia

Entitled: Immunotoxicity and hematological effects of montmorillonite clay in Balb/c mice

4. **1996-2000: B.Sc. in Natural Sciences**, University of Carthage, Bizerte/Tunisia
5. **Bachelor Degree** in Experimental Sciences, Gafsa/Tunisia 1996.

Position

6. **2015-present: 2015-until now: Associate professor in Biology and animal physiology (Immuno-toxicology and Animal Biotechnology)** Higher Institute of Biotechnology of Beja (ISBB), University of Jendouba, Tunisia.
1. **2010-2015: Assistant Professor** Higher Institute of Biotechnology of Beja (ISBB), University of Jendouba, Tunisia
2. **2007: Assistant** Higher Institute of Biotechnology of Beja (ISBB), University of Jendouba, Tunisia
3. **2002-present: Researcher**, Unit of Immunology, Environmental Microbiology and Cancerology (IMEC), Faculty of Sciences Bizerte, University of Carthage /Tunisia.

Professional Experience

1. Biology and Animal physiology Course; University of Jendouba/Tunisia
2. Clinical and fundamental Immunology; University of Jendouba/Tunisia
3. Animal biotechnology Course for Master Students; University of Jendouba/Tunisia
5. Animal product valorization course, University of Jendouba
6. Hygienic and environmental security (Master course), University of Jendouba

PROJETS

- **2010-2012:** Coordinator of **projet « TWAS-UNESCO associateship »** National Institute of Genetic and Biotechnology Tehran, Iran
- **2012-2016:** Coordinator of relation/communication between Universities-Entreprises in **projet TEMPUS-IV** (N°530312-Tempus-1-2012-1-FR-Tempus-JPHES) intitulé « Développement de partenariats universités-entreprises du domaine des Sciences et Technologies du Vivant en Tunisie (PUESTV) ».
- 2017-2019: Coordinator GREENMED du projet mobility (ERASMUS+ K107).

Papers Published in international Scientific Journals

★ Article 1

Samir Abbès, Zouhour Ouanes, Jalila Ben Salah-Abbès, Zohra Houas, Ridha Oueslati, Hassen Bacha and Omar Othman (2006). The protective effect of hydrated sodium calcium aluminosilicate against haematological, biochemical and pathological changes induced by zearalenone in mice. **Toxicon** 47; 567-574.

★ Article 2

Samir Abbès, Jalila Ben Salah-Abbès, Zouhour Ouanes, Zohra Houas, Omar Othman, Hassen Bacha, Mosaad A. Abdel-Wahhab, Ridha Oueslati (2006). Preventive role of phyllosilicate clay on the Immunological and Biochemical toxicity of zearalenone in balb/c mice. **International Immunopharmacology**, 6; 1251-1258.

★ Article 3

Samir Abbès, Jalila Ben Salah-Abbès, Zouhour Ouanes, Hassen Bacha, Omar Othman, Mosaad A. Abdel-Wahhab and Ridha Oueslati (2006). Hydrated sodium calcium aluminosilicate Protects Against Genotoxic Effects In Zearalenone-Treated Balb/C Mice. **The Egy. J. of Hosp. Med.** 22; 49-59. ISSN: 1687-2002/12084.

★ Article 4

Samir Abbès, Zouhour Ouanes, Jalila Ben Salah-Abbès, Mosaad A. Abdel-Wahhab, Ridha Oueslati, Hassen Bacha (2007). Preventive role of aluminosilicate clay against micronuclei and chromosome aberration induction in bone marrow cells of Zearalenone treated Balb/c mice. **Mutation research**, 631; 85-92.

★ Article 5

Samir Abbès, Jalila Ben Salah-Abbès, Kais Nahdi, Ridha Ben Younes, Mona M. Hetta, Ahmed A. El-Kady, Mosaad A. Abdel-Wahhab, Ridha Oueslati (2007). Inactivation of cadmium induced immunotoxicological alterations in rats by Tunisian montmorillonite clay. **International Immunopharmacology**, 7; 750-760.

★ Article 6

Jalila Ben Salah-Abbès, **Samir Abbès**, Zouhour Ouanes, Zohra Houas, Mosaad A. Abdel-Wahhab, Hassen Bacha, Ridha Oueslati (2008). Tunisian radish extract (*Raphanus sativus*) enhances the antioxidant status and protects against oxidative stress induced by zearalenone in Balb/c mice. **Journal of Applied Toxicology**, 28; 6-14.

★ Article 7

Jalila Ben Salah-Abbès, **Samir Abbès**, Zohra Houas, Mosaad A. Abdel-Wahhab, Ridha Oueslati (2008). Zearalenone induces immunotoxicity in mice: possible protective effects of Radish Extract (*Raphanus Sativus*). **Journal of Pharmacy and Pharmacology**, 60; 761-770.

★ Article 8

Samir Abbès, Jalila Ben Salah-Abbès, Zouhour Ouanes, Mouna M. Hetta, Mohamed Ibrahim, Hassen Bacha, Mosaad A. Abdel-Wahhab, Ridha Oueslati (2008). Efficacy of Tunisian montmorillonite

to bind Aflatoxin in vitro and to ameliorate the physiological alteration in vivo. **Applied clay science**, **42**; 151-157.

★ **Article 9**

Jalila Ben Salah-Abbès, Samir Abbès, Mossad Attia Abdel-Wahhab, Ridha Oueslati (2009). *Raphanus sativus* extract protects against Zearalenone induced reproductive toxicity, oxidative stress and mutagenic alterations in male Balb/c mice. **Toxicol** **53**; 525-533.

★ **Article 10**

Jalila Ben Salah-Abbès, Samir Abbès, Zouhour Ouanes, Zohra Houas, Mossad Attia Abdel-Wahhab, Bacha H., Ridha Oueslati (2009). Isothiocyanate from the Tunisian radish (*Raphanus sativus*) prevents genotoxicity of Zearalenone *in vivo* and *in vitro*. **Mutation Research**, **677**; 59-65.

★ **Article 11**

Jalila Ben Salah-Abbès, Samir Abbès, Mossad Attia Abdel-Wahhab, Ridha Oueslati (2009). *Raphanus sativus* extract prevents and ameliorates Zearalenone-induced peroxidative hepatic damage in Balb/c mice. **Journal of Pharmacy and pharmacology** **61**:1545-1554.

★ **Article 12**

Jalila Ben Salah-Abbès, Samir Abbès, Mossad Attia Abdel-Wahhab, Ridha Oueslati (2010). In vitro free-radical scavenging, antiplorifilative and anti-zearalenone cytotoxicity effects of 4-(Methylthio)-3-butenyl isothiocyanate from (Tunisian) *Raphanus sativus*. **Journal of Pharmacy and Pharmacology**, **62**; 331-339.

★ **Article 13**

Jalila Ben Salah-Abbès, Samir Abbès, Abdel-Wahhab MA, Ridha Oueslati, (2010) Immunotoxicity of Zearalenone in Balb/c mice in a high subchronic dosing study counteracted by *Raphanus sativus* extract. **Journal of Immunopharmacology and Immunotoxicology** **32**; 628-636.

★ **Article 14**

Samir Abbès, Jalila Ben Salah-Abbès, Mossad Attia Abdel-Wahhab, Ridha Oueslati (2010). Immunotoxicological and biochemical effects of Aflatoxins in rats prevented by Tunisian Montmorillonite with reference to HSCAS. **Journal of Immunopharmacology and Immunotoxicology** **32**; 514-522.

★ **Article 15**

Samir Abbès, Jalila Ben Salah-Abbès, Yousra Bouraoui, Ridha Oueslati (2012). Detection of natural occurrence of aflatoxins (B₁ and M₁) in feed, Blood samples and raw milk of lactating dairy cows in Beja, Tunisia using ELISA test. **Food additive and Contaminant: part B** **5**, 11-15. (IF 2013= 0,914)

★ **Article 16**

Samir Abbès, Jalila Ben Salah-Abbès, Hakima Sharafi, Akbari NK, Oueslati R (2012). Interaction of *Lactobacillus plantarum* MON03 with Tunisian Montmorillonite clay and ability of the composite to immobilize Zearalenone in vitro and counteract immunotoxicity In vivo. **Journal of Immunopharmacology and Immunotoxicology**. **34**, 944-950. (IF 2013= 1,109)

★ **Article 17**

Samir Abbès, Jalila Ben Salah-Abbès, Hakima Sharafi, Jebali R, Akbari NK, Oueslati R. (2013). Ability of *Lactobacillus rhamnosus* GAF01 to Remove AFM₁ *in Vitro* and to Counteract AFM₁ Immunotoxicity *in Vivo*. **Journal of Immunotoxicology**. 10, 279-286. (IF 2013= 1, 907)

★ **Article 18**

Samir Abbès, Jalila Ben Salah-Abbès, Hakima Sharafi, Oueslati R, Akbari NK. (2013). *Lactobacillus paracasei* BEJ01 Prevents Immunotoxic Effects During Chronic Zearalenone Exposure in Balb/c Mice. **Journal of Immunopharmacology and Immunotoxicology**. 35, 341-348. (IF 2013= 1,109)

★ **Article 19**

Jalila Ben Salah-Abbès‡, **Samir Abbès‡**, Haous Zohra, Oueslati R. (2013). Tunisian Radish (*Raphanus sativus*) Extract Prevents Cadmium-induced Immunotoxic and Biochemical Alterations in Rats. **Journal of Immunotoxicology** 12, 40-47. (IF 2013= 1, 907)

N.B. ‡: ces auteurs ont contribué équitablement dans la réalisation de ce travail

★ **Article 20**

Jalila Ben Salah-Abbès‡, **Samir Abbès‡**, Rania Jebali, Zohra Haous, and Ridha Oueslati. (2014). Potential Preventive Role of Lactic Acid Bacteria Against Aflatoxin M₁ Immunotoxicity and Genotoxicity in Mice. **Journal of Immunotoxicology** 12, 107-114. (IF 2013= 1, 907)

N.B. ‡: ces auteurs ont contribué équitablement dans la réalisation de ce travail

★ **Article 21**

Jebali Rania‡, **Samir Abbès‡**, Jalila Ben Salah-Abbès, Ben Younes R, Haouas Zohra, Oueslati Ridha. (2014) Ability of *Lactobacillus plantarum* MON03 to mitigate Aflatoxins (B₁ and M₁) immunotoxicities in mice. **Journal of Immunotoxicology** 2, 1-10. (IF 2013= 1, 907)

N.B. ‡: ces auteurs ont contribué équitablement dans la réalisation de ce travail

★ **Article 22**

Samir Abbès, Jalila Ben Salah-Abbès, Rania Jebali, Ben Younes Ridha, Oueslati Ridha. (2014) Interaction of Aflatoxin B₁ and Fumonisin B₁ in Mice Causes Immunotoxicity and Oxidative Stress: Possible Protective Role using Lactic Acid Bacteria **Journal of Immunotoxicology** 14, 1-9. (IF 2013= 1, 907)

★ **Article 23**

Jalila Ben Salah-Abbès, Hakimeh Sharafi, Kambiz Akbari Noghabi, Ridha Oueslati **Samir Abbès** (2016). Immuno-Physiological alteration of AFB₁ in Rats counteracted by *Lactobacillus paracasei* BEJ01 and montmorillonite clay supplementation **Journal of Immunotoxicology**, 13: 628-637.

★ **Article 24**

Hela Belgacem, Jalila Ben salah-Abbès, Samia Achour, **Samir Abbès** (2017). Genotoxicity of Zearalenone in rats counteracted by Lactic Acid Bacteria isolated from Tunisian traditional butter (under revision)

Papers Published in national Scientific Journals

- 1- **Samir Abbès**, Ridha Oueslati, Jalila Ben Salah, Kais Nahdi, Omar Othman (2004). Effet d'une Exposition subchronique a une argile phyllosilicate gonflante de type smectite sur certains paramètres immunologiques des souris Balb/c. **Publié dans la revue de la Faculté des Sciences Bizerte, volume III, juillet 2004.**
- 2- Jalila Ben Salah-Abbès, **Samir Abbès**, Mosaad A. Abdel-Wahhab, Ridha Oueslati, (2008). Etude de l'activité antioxydante de l'extrait de *Raphanus sativus* et de son pouvoir inhibiteur de la croissance et de la toxigenèse chez *Fusarium graminearum*. **Microbiologie Hygiène Alimentaire 20; 53-59.**
- 3- Jalila Ben Salah-Abbès, **Samir Abbès**, Abdel-Wahhab M A, Oueslati R. (2014). Les isothiocyanates extraits à partir de *Raphanus sativus* protègent les lymphocytes murins contre la toxicité de la Zéaralénone. **Revue de la Faculté des Sciences Bizerte.**
- 4- Rania Jebali, **Samir Abbès**, Jalila Ben Salah-Abbès, Ridha Ben Younes, Ridha Oueslati. (2014). Possibilité de prévention des effets toxiques des Aflatoxines (B₁ et M₁) chez la souris Balb/C par une bactérie lactique *Lactobacillus Plantarum* MON03. **Tunisian Journal of Medicinal Plants and Natural Products.**
- 5- **Samir Abbès**, Jalila Ben Salah-Abbès, Youssra Bouraoui, Sarra Oueslati, Ridha Oueslati (2014). Removal ability of AFM₁ in vitro by *Lactobacillus paracasei* BEJ01 isolated from higher AFM₁-contaminated artisanal Tunisian butter. **Tunisian Journal of Medicinal Plants and Natural Products.**

Special Training

NO.	Time	Title
1	January-April 2006	"Detection and determination of Mycotoxins residue, pesticide, and heavy metals, in foods, tissues and biological fluids using the methods of chromatography -TLC and HPLC, National Research Centre, Dokki/Egypte.
2	September 2008	Risk assessment summer school (RASS XIII) , Hoeri, Am Bodensee, Germany organized by: International Union of Toxicology.
3	September 2010	ISTIC Training Workshop on Technopreneurship for South-South Countries , Penang, Malaysia
4	September 2010	ISTIC-TWAS Workshop on 'Innovations in Science and Technology in Developing Countries' , Penang, Malaysia.
5	November 2010	Workshop and conference "Our Common Future" Hanover and Essen, Germany.

6	November 2010 - January 2011 January 2012- February 2012	TWAS-UNESCO associateship
7	Juin-jully 2017	MIT-Educator Program Massachusetts Institute of Technology (MIT), campus in Cambridge, MA, USA

Presentations

- 1- The Pan-Arab Conference of The Egyptian Society of pediatric Gastroenterology, Hepatology & nutrition. 29-30 Mars 2006, Cairo, Egypte
- 2- 1st Pan Arab congres " la sécurité alimentaire, défis et perspective", : Mars 31 to Avril 2 ; 2006 Mahdia, Tunisia
- 3- EUROTOX 2006/6 CTDC CONGRESS 43rd Congress of The European Societies of Toxicology 6th Congress of Toxicology in Developing Countries Cavtat/Dubrovink, CROATIA
- 4- 9th International Symposium on ginseng 25 - 28, September 2006 GEUMSAN, KOREA
- 5- Congrès Annuel de la Société Française de Toxicologie «Toxicologie de la Pharmacodépendanceaux Médicaments et aux Drogues»: 23 - 24 octobre 2006, Institut Pasteur / Paris French.
- 6- The XIth International Congress of Toxicology, July 15-19, 2007 in Montréal, Canada.
- 7- The 6th PAN African Environment Mutagen Society Conference (PAEMS) November 2-6, 2008, Cap Town, South Africa.
- 8- ISTIC-TWAS Workshop on 'Innovations in Science and Technology in Developing Countries, 6-7 September 2010 Penang, Malaysia intitulée: «Clay and bacteria from traditional butter get ride against mycotoxin Immunotoxicity». **Samir Abbès**, Jalila Ben Salah-Abbès, Ridha Oueslati
- 9- **Conference "Our Common Future"** Hanover and Essen 2-6 November 2010, Germany. Intitulée: «Lactobacillus sp good candidate for AFM1 Immunotoxicity ». **Samir Abbès**, Jalila Ben Salah-Abbès, Ridha Oueslati
- 10- **The Academy of Sciences for the developing word/BioVision Alexandria. Next 2012 (TWAS/BVA.NXT 2012) Program 21-22 April 2012 at the Bibliotheca Alexandrina, Egypt. Intitulée : «Pobiotic bacteria protects against mycotoxin contaminated feed».** **Samir Abbès**, Jalila Ben Salah-Abbès, Ridha Oueslati
- 11- **The 12th conference/23^d annual meeting "the Academy of Sciences for the developing countries (TWAS)" 17-21 septembre 2012. Tianjin, China** intitulée: «Clay mineral from Tunisian environment protects against zearalenone In vivo study». **Samir Abbès**, Jalila Ben Salah-Abbès, Ridha Oueslati

- 12- The 13th conference/23th annual meeting of the Academy of Sciences for the developing countries (TWAS)" 01-04 Octobre, 2013; Buenos Aires, Argentine intitulée: « Immunomodulation effect of 4-(Methylthio)-3-butenyl isothiocyanate (MTBITC) against Zearalenone-immunotoxicity in Balab/c mice ». Jalila Ben Salah-Abbès, Samir Abbès, Ridha Oueslati.

Techniques of Expertise

- Laboratory skills:

Immunological techniques

- Toxicological techniques
- Toxin and mycotoxin quantification by HPLC
- PCR-based techniques.
- RFLP
- PAGE and Agarose gel electrophoresis
- Microbiology techniques
- Protein Purification: Purification of proteins, FPLC purification of proteins using ion-exchange, size-exclusion, and affinity columns
 - Structural characterization
 - Chromatography: FPLC purification of proteins using DEAE, SEC and Affinity columns
- Protein analysis: Protein extraction, SDS PAGE analysis, Enzyme assays.
- Spectrophotometry: UV/Vis, Fluorometry, Circular dichroism.
- Enzymatic manipulation.

- **Computer knowledge:** DOS/Windows 95, 98, NT, XP; Microsoft office; Endnote; Internet utilities.

- **Language** Arabic: good, French: Good and English: Good

Awards Received

1. Junior Fellowship award: the International Union of Toxicology. Montreal Canada, 2007.
2. Fellowship award: "**Risk Assessment Summer School**" from 4 to 14 September 2008 Hamenhofen, Germany.
3. PAMES Fellowship award: "**PAEMS 2008 Conference**" November 2-6, 2008, Cap Town, South Africa.
4. ISTIC-TWAS award: **the Workshop on 'Innovations in Science and Technology in Developing Countries'**, September 1-9, 2010, Penang, Malaysia
5. Volkswagen Foundation award: "**Our common future conference**" November 2-6, 2010, Hanover/Essen, Germany.

6. TWAS-UNESCO associateship award in the centre of excellence in the south: 2010-2012.

7. **TWAS-UNESCO associateship 2010-2012**

8. **TWAS-ARO Young Scientist Affiliates 2011-2015**

9. **SOT/AstraZenica travel award 2014:** Society of Toxicology 2014 annual meeting & ToxEpo™ du 23-27 mars 2014, Arizona, United States.

Professional Membership and activities

1. Third world academy of Sciences young Scientist affiliate 2011-2015 (TWAS-ARO)
2. Egyptian Society of Toxicology (EST).
3. Tunisian Society of Clay Mineral (TSC).
3. African society of Environmental mutagenesis (AEMS)
4. Word Library of Toxicology (WLT) corresponding country: contributing information about toxicological resource and research underway in Tunisia to the word Library of Toxicology. URL: (<http://www.wltox.org>)

Invited Reviewer

1. Journal of Agriculture and Food Chemistry. (American Chemical Society)
2. Environmental Toxicology and Pharmacology. (ELSEVIER)
3. Food and Chemical Toxicology. (ELSEVIER)
4. African Journal of Traditional, Complementary and Alternative Medicines.
5. Pharmacy and Pharmacology (ELSEVIER)
6. Mineral and Mineral clay (ELSEVIER)
7. Phototherapy research
8. Toxicology in vitro (ELSEVIER)
9. Journal of immunotoxicology and Immunopharmacology (informa healthcare)
10. Journal of immunotoxicology (informa healthcare)

Research Projects

No.	Project Title	Position	Location	From	To
1	Food contaminates causing immunotoxicities protection using Natural products	Co - Executive	University of Carthage	2003	2007
2	Evaluation of Enzymes and molecules from radish against Zearalenone	Co - Executive	University of Carthage	2007	2009

	contaminated feed causing immunotoxicity				
3	Isolation and Characterization of antifungal-producing indigenous <i>Lactobacillus</i> Strains from traditional dairy products and evaluation of the selected bacteria against mycotoxins (Zearalenone and aflatoxins) causing immunotoxicity in mice or rats	Executive	University Jendouba & National Institute of Genetic Engineering and Biotechnology	2010	2012
4	Lactic Acid Bacteria as a feed additive against mycotoxins	Executive	University Jendouba & Laboratory of genetic, Biodiversity and Bio-ressources Valorization	2017	2020

Research Interest

Covers a range of topics related to Biotechnology, Microbiology, Immunology, Immunotoxicology, Bioremediation using lactic acid bacteria, Food contamination and animal immune system dysfunction.

I was responsible for submission of the following:

Thesis:

- Screening of mycotoxins in dairy milk in Bizerte province using ELISA test
- Screening of mycotoxins in water using ELISA test and detoxification possibility using *Lactobacillus plantrum*
- Immunotoxicological effect of Zéaralenone-contaminant and prevention method using *Lactobacillus rhamnosus* GG
- Evaluation of prevention approach of isolated bacteria against AFB1 and AFM1 Immunotoxicity
- In vitro biodegradation of ochratoxin, Zearalenone and Aflatoxin B₁ by lactic acid bacteria-Screening and evaluation of AFB1 in feed and AFM1 in dairy milk: case study the region of Beja, Tunisia
- Detoxification study of Aflatoxin M1 contamination milk using *lactic acid bacteria: in vitro study*
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References

1. Prof. Ridha Oueslati Professor, Unit of Immunology, Environnemental Microbiology and Cancerology. Address: Department of Research, Faculty of Sciences Bizerte Zarzouna 7021, University of Carthage Tel: +216 72 59 19 06 Ext 202; fax: +216 72 59 05 66. *E-mail address:* oueslatiridha12@hotmail.fr
2. Prof. Lamjed Marzouki Professor, director of Higher Institute of Biotechnology Béja, Jendouba University. Address: Habib Bourguiba Street, BP: 382 Béja 9000. Tél: 78 443 863/Fax: 78459098 Email: lamjed.marzouki@ipeis.rnu.tn
3. Prof. Mosaad Attia Abdel-Wahhab; Professor; Department of Food Toxicology and contaminant National Research Center, EL-Tahrir Street., Dokki, Cairo, Egypt, Fax: 00202 - 3370931 E-mail: mosaad_abdelwahhab@yahoo.fr
4. Prof. Kambiz Akbari Noghabi, Department of Molecular Genetics, National Institute of Genetic Engineering and Biotechnology (NIGEB), P.O. Box 14155-6343, Tehran, Iran. Tel.: +98 21 44580352; fax: +98 21 44580395. E-mail akbari@nigeb.ac.ir