



## CURRICULUM VITAE

2008

**FIRST NAME & SURNAME:** **Samir JAOUA**

**BIRTHDAY (dd/mm/yy):** **28/08/59 in Sfax, Tunisian, married and father of 3 children**

**ADDRESS:** Centre of Biotechnology of Sfax. Laboratory of Biopesticides. P.O.Box. : 1177. 3018. Sfax. Tunisia. Tel/Fax : 21674874446, Mobile : 21698630941, *E.mail : Samir.Jaoua@cbs.rnrt.tn*

### FUNCTION:

- Professor, at the Centre of Biotechnology of Sfax - Tunisia
- Director of the Laboratory of Biopesticides

### -SUMMARY OF EXPERIENCE: Competencies and Qualifications:

- 25 YEARS OF EXPERIENCE in the field of Genetic Engineering and Biotechnology, in different countries: France, Germany, Switzerland, Belgium and Tunisia
- Expert of United Nations Environmental Programs (UNEP), Biosafety
- Expert of the International Atomic Energy Agency (IAEA)
- Since January 2005: North Africa correspondent for the AUF (Agence Universitaire de la Francophonie -BioVeg)

### -POSITIONS:

- Assistant Professor at the Faculty of Sciences & Techniques, Rouen, France, for 2 years
- Post-Doc in Ciba Geigy Basle, Switzerland for 3 years
- Invited in the Lab. Plant genetics Pr Mark Von Montagu, Univ. of Gent Belgium, for 10 months
- Associate Professor (1992-1996), then Professor (since 1997), Centre of Biotechnology of Sfax
- Director of the Unit of Metabolites Production (1993-1996), Centre of Biotechnology of Sfax
- Director of the Laboratory of Protection and Transformation of Plants (1998-2000), Centre of Biotechnology of Sfax
- Director of the Laboratory of Biopesticides (since 2001), Centre of Biotechnology of Sfax

### GRADUATIONS :

#### **-BACHELOR of General Biology**

June 1982, at the Faculty of Sciences and Techniques. Sfax. Tunisia

#### **-ENGINEER, in Biology Engineering**

July 1984, at the Faculty of Sciences and Techniques. Sfax. Tunisia

#### **-MASTER DEGREE, in Microbiology, Enzyme Engineering & Bioconversion**

June 1984, at the University of Technology of Compiègne, France

#### **-DOCTOR-ENGINEER in Microbiology, Enzyme Engineering & Bioconversion**

October 17<sup>th</sup> 1986, at University of Technology of Compiègne, France

Mention : Very Honourable

#### **-DOCTOR ES-SCIENCES**

May 11<sup>th</sup> 1991, at the Faculty of Sciences of Tunis, Tunisia

Mention : Very Honourable

All Research activities (1987 – 1991) were done in France (Faculty of Sciences and Techniques of Rouen) and Switzerland (Ciba-Geigy Ltd or Novartis, Basle)

Research Director : Pr J Guespin-Michel, Faculty of Sciences and Techniques. Rouen. France.

*Thesis title* : Study of recombination events undergone by the broad host range plasmids incP, in the chromosome of *Myxococcus xanthus* and *Sorangium cellulosum*. Site-Specific Recombination

## **TEACHING AND RESEARCH ACTIVITIES :**

### **Years 1987 and 1988 :**

**Associate Assistant-Professor at the Faculty of Sciences and Techniques. Rouen. France.**

-Teaching Molecular Biology and Microbiology

-Research Subject : Gene transfer systems to *Myxococcus xanthus*

Laboratory of Microbiology. URA 203 CNRS. BP 118. 76821 Mont-Saint-Aignan cedex France

### **Years : 1989, 1990 and 1991 :**

**Post-Doc Researcher at Ciba-Geigy L.t.d (Novartis) Basle. Switzerland.**

Department of Biotechnology, Pharmaceutical Research Division, K681-3-08, CH4002, Basle, SWITZERLAND.

Subject : Development of a genetic system of DNA transfer to *Sorangium cellulosum*, a myxobacterium producing a fungicide, Soraphen. Genes investigation. Antibiotic production improvement by genetic manipulation.

### **From January 1992 up to now :**

**Associate-Professor** (until December 1996) at the Centre of Biotechnology of Sfax, Tunisia.

**Professor** (Since December 23<sup>rd</sup>, 1996)

## **RESEARCH PROGRAMMES :**

### **\* From 1992 up to now :**

**Biopesticides from Microorganisms, plants and algae useful in Biological Agriculture and public health and for the protection of the environment:**

***Bioinsecticides, Biofungicides, Antibiotics, Antioxydants ...***

- **Integrated Pest Management:** Biological treatment of pathogens (insects, fungi, bacteria, parasites...) of plants, food industry and human health disease vectors.
- **Microbial strains producing active biomolecules against pathogens of agriculture, environment and human health:**
  - Isolation and molecular identification of microorganisms of interest
  - Cloning and study of the expression of the corresponding genes
  - Heterologous expression
  - Study of the interaction Toxin-Receptor
  - Production of biopesticides by fermentation at different scales and purification
- **Extraction, purification, characterization and use of active molecules extracted from plants and algae**

## **TEACHING ACTIVITIES**

- Since 1992 up to 2000 : Course of Molecular Genetics, for Bachelor Degree of Biology Sciences, Faculty of Sciences of Sfax (F.S.S), Tunisia
- 1992 : Course of Molecular Biology and Genetics, for Biology Engineering Level 1, of the National School of Engineers of Sfax (E.N.I.S), Tunisia
- 1993 : Course of Molecular Genetics, for Master Degree of Molecular Biology and Genetics. Faculty of Sciences of Tunis, Tunisia
- Since 1995, up to now : Course of Applied Microbiology and Molecular Biology, for Master Degree of Biology Engineering, of the National School of Engineers of Sfax (E.N.I.S), Tunisia
- Since 1996, up to now : Course of Molecular Biology, for Master Degree of Biotechnology and Immunology applied to transmissible diseases, of the Faculty of Pharmacy of Monastir, Tunisia
- Since 1997, up 1999 : Course of Genetic Engineering, for Biology Engineering Level 3, of the National School of Engineers of Sfax (E.N.I.S), Tunisia
- Since 2000 up to now: Course of Molecular Genetics , for Bachelor Degree SVT2 of Biology Sciences, Faculty of Sciences of Sfax (F.S.S), Tunisia
- Since 2001 up to now : Genetic Engineering , for Bachelor Degree SV3 of Biology Sciences, Faculty of Sciences of Sfax (F.S.S), Tunisia
- Since 2001 up to now: Course of molecular Biology and applied microbiology, in the Faculty of Sc., University Saint Joseph Beirut Lebanon

## **INTERNATIONAL PUBLICATIONS**

- 1\***BRETON A M, **JAOUA S** and GUESPIN-MICHEL J F (1985)  
Transfer of plasmid RP4 to *Myxococcus xanthus* and evidence for its integration into the chromosome  
***J. Bacteriol. 161, 523-528***
- 2\*****JAOUA S**, BRETON A M, YOUNES G and GUESPIN-MICHEL J F (1986)  
Structural instability and stabilization of IncP-1 Plasmids integrated into the chromosome of *Myxococcus xanthus*  
***J. Biotechnol. 4, 313-323***
- 3\*****JAOUA S**, GUESPIN-MICHEL J F and BRETON A M (1987)  
Mode of insertion of the broad host range plasmid RP4 and some of its derivatives into the chromosome of *Myxococcus xanthus*  
***Plasmid 18, 111-119***
- 4\***SAULNIER P, **JAOUA S**, BRETON A M, REICHENBACH H and GUESPIN-MICHEL J F (1987)  
Gene transfer in Myxobacteria.  
***Eur. Congr. Biotechnol. 1, 387-388***
- 5\***SAULNIER P, HANQUIER J, **JAOUA S**, REICHENBACH H and GUESPIN-MICHEL J F (1988)  
Utilization of IncP1 plasmids as vectors for transposon mutagenesis in Myxobacteria.  
***J. Gen Microbiol. 134, 2889-2895***
- 6\*****JAOUA S**, LETOUVET-PAWLACK B, MONNIER C and GUESPIN-MICHEL J F (1990)  
Mechanism of integration of the broad host range plasmid RP4 into the chromosome of *Myxococcus xanthus*  
***Plasmid 23, 183-193***
- 7\*****JAOUA S**, NEFF S and SCHUPP T (1992)  
Transfer of mobilizable plasmids to *Sorangium cellulosum* and evidence for their integration into the chromosome  
***Plasmid 28, 157-165***
- 8\*****JAOUA S**, ZOUARI N, TOUNSI S and ELLOUZ R (1993)

Production of bioinsecticides from isolated strains of *Bacillus thuringiensis* for olive tree disease control.

**Proceedings of the second arab Conference on Perspectives of Modern Biotechnology. Published by Biodynamics International, San Diego, California**

**9\***SAVOURE A, **JAOUA S**, HUA X J, ARDILES W, VAN MONTAGU M and VERBRUGGEN N (1995)  
Isolation, characterization, and chromosomal location of a gene encoding the delta1-pyrroline-5-carboxylate synthetase, in *Arabidopsis thaliana*.

**FEBS Lett. 372, 13-19**

**10\*****JAOUA S**, ZOUARI N, TOUNSI S and ELLOUZ R (1996)

Study of particular delta-endotoxins produced by three isolated strains of *Bacillus thuringiensis*

**FEMS Microbiol. Lett. 145, 349-354**

**11\***ZOUARI N and **JAOUA S** (1997)

Purification and immunological characterization of particular delta-endotoxins from three isolated strains of *Bacillus thuringiensis*

**Biotechnol. Lett. 19, 825-829**

**12\***ZOUARI N, DHOUIB A, ELLOUZ R and **JAOUA S** (1998)

Nutritional requirements of a *Bacillus thuringiensis* subsp. *Kurstaki* strain and use of Gruel hydrolysate for the formulation of a new medium for delta-endotoxin production

**Appl. Biochem. Biotechnol. 69, 41-52**

**13\***ZOUARI N and **JAOUA S** (1999)

Production and characterization of metalloproteases synthesized concomitantly with delta-endotoxin by *Bacillus thuringiensis* subsp. *Kurstaki* strain grown on gruel-based media

**Enz. Microb. Technol. 25, 364-371**

**14\***ZOUARI N and **JAOUA S** (1999)

The effect of complex carbon and nitrogen, salt, Tween-80 and acetate on delta-endotoxin production by a *Bacillus thuringiensis* subsp. *Kurstaki*

**J. Ind. Microb. Biotechnol. 23, 497-502**

**15\***TOUNSI S, J'MAL A, ZOUARI N and **JAOUA S** (1999)

Cloning and nucleotide sequence of a novel *cry1Aa*-type gene from *Bacillus thuringiensis*

**Biotechnol. Lett. 21, 771-775**

**16\*****JAOUA S**, TOUNSI S, ZOUARI N, ZRIBI R, ABDELKAFI L, KAMOUN F, IBEN AOUN A, and DRISS F (2001)

*Bacillus thuringiensis* A source of Biomolecules having insecticidal, bactericidal and fungicidal activities

**Proceedings of the 1st Eurasian Congress on Molecular Biotechnology ECOMB**

**17\***CHERIF A, OUZARI H, DAFFONCHIO D, CHERIF H, BEN SLAMA K, HASSEN A, **JAOUA S** and BOUDABBOUS A (2001)

Thuricin 7 : A novel bactriocin produced by Bacilles thuringiensis BMG1.7, a new strain isolated from soil

**Lett. Appl. Microbiol. 32, 1-5**

**18\***SAYARI A, AGREBI N, **JAOUA S** and GARGOURI Y T (2001)

Biochemical and Molecular characterisation of Staphylococcus simulans lipase

**Biochimie 83, 1-9**

**19\***ZOUARI N, BEN SIK ALI S and **JAOUA S** (2002)

Production of delta-endotoxins by several *Bacillus thuringiensis* strains exhibiting various entomocidal activities towards lepidoptera and diptera in gruel and fish-meal media

**Enz. Microb. Technol. 31,411-418**

**20\***TOUNSI, S. and **JAOUA, S.** (2002)

Identification of a promoter for the crystal protein-encoding gene *cry1Ia* from *Bacillus thuringiensis* subsp. *kurstaki*.

**FEMS Microbiol. Lett. 208, 215-218**

**21\***ZOUARI N, Achour O and **JAOUA S** (2002)

Production of delta-endotoxin by *Bacillus thuringiensis* subsp. *kurstaki* and overcome of catabolite repression, by using highly concentrated gruel and fish meal media in 2 and 20 dm<sup>3</sup> fermenters

**J. Chem. Technol. Biotechnol. 77, 877-882**

**22\***TOUNSI S, ZOUARI N and **JAOUA S** (2003)

Cloning and study of the expression of a novel *cry1Ia*-type gene from *Bacillus thuringiensis* subsp. *kurstaki*

**J. Appl. Microbiol. 94, 1-6**

**23\***TOUNSI S and **JAOUA S** (2003)

Characterisation of a novel *cry2Aa*-type gene from *Bacillus thuringiensis* subsp. *kurstaki*

**Biotechnol. Lett. 25,1219-1223**

**24\***GHRIBI D, ZOUARI N, and **JAOUA S** (2004)

Improvement of Bioinsecticide Production through mutagenesis of *Bacillus thuringiensis* subsp. *kurstaki* by UV and Nitrous acid affecting metabolic pathways and/or delta-endotoxins synthesis

**J. Appl. Microbiol. 97, 338-346.**

**25\*** F. KAMOUN, H. MEJDOUB, H. AOUISSAOUI, J. REINBOLT, A. HAMMAMI AND **S. JAOUA** (2005)

Purification, Amino Acid Sequence and Characterization of Bacthuricin F4, a new bacteriocin produced by *Bacillus thuringiensis*

**J. Appl. Microbiol. 98, 881-888**

**26\***D. GHRIBI, N. ZOUARI AND **S. JAOUA** (2005)

Improvement of bioinsecticides production through Adaptation of *Bacillus thuringiensis* to heat treatment and NaCl addition

**J. Appl. Microbiol. 98, 823-831**

**27\*** L ABDELKEFI MESRATI, S TOUNSI AND **S JAOUA** (2005)

Characterization of a novel *vip3*-type gene from *Bacillus thuringiensis* and evidence of its presence on a large plasmid .

**FEMS Microbiol. Lett. . 244, 353-358**

**28\*** F. DRISS, M. KALLASSY-AWAD, N. ZOUARI AND **S. JAOUA** (2005)

Molecular characterization of a novel chitinase from *Bacillus thuringiensis* subsp. *kurstaki*

**J. Appl. Microbiol. 99, 945-953**

**29\*** HMIDA-SAYARI A, COSTA A, LEONE A, **JAOUA S** AND R GARGOURI-BOUZID (2005)

Identification of salt stress-induced transcripts in potato leaves by cDNA-AFLP

**Mol. Biotechnol. 30, 31-39**

**30\*** ABDELKEFI MESRATI L, DAMMAK KARRAY M, TOUNSI S AND **JAOUA S** (2005)

Construction of a new high copy-number shuttle vector of *Bacillus thuringiensis*

**Lett. Appl. Microbiol. 41, 361-366**

**31\*** ABDELKEFI MESRATI L, TOUNSI S, KAMOUN F AND **JAOUA S** (2005)

Identification of a promoter for the vegetative insecticidal protein-encoding gene *vip3LB* from *Bacillus thuringiensis*.

**FEMS Microbiol. Lett. 247, 101-104**

**32\*** HMIDA-SAYARI A, GARGOURI-BOUZID R, BIDANI A, JAOUA L, SAVOURÉ A AND **JAOUA S** (2005)

Overexpression of  $\Delta^1$ -pyrroline-5-carboxylate synthetase increases Proline production and confers osmotolerance in transgenic potato plants

**Plant Science, 169, 746-752**

**33\*** S. TOUNSI, M. DAMMAK, A. REBAI, AND **S. JAOUA** (2005)

Response of larval *Ephestia kuehniella* (Lepidoptera: Pyralidae) to individual *Bacillus thuringiensis kurstaki* toxins and toxin mixtures

**Biological Control. 35, 27-31**

**34\*** R. ZRIBI ZGHAL, S.TOUNSI AND **S. JAOUA**(2006)

Characterization of another *cry4Ba*-type gene of *Bacillus thuringiensis israelensis* and evidence of the synergistic larvicidal activity of its encoded protein with Cry2A delta-endotoxin of *B. thuringiensis kurstaki* on *Culex pipiens*

**Biotechnol. And Appl. Biochem. 44, 19-25**

**35\*** S. TOUNSI, M. DAMMAK, N. ZOUARI, A. REBAÏ, AND **S. JAOUA** (2006)

Evidence of the effect of delta-endotoxin ratio in *Bacillus thuringiensis* crystals on the toxicity against *Ephestia kuehniella*

**Biological Control. 37, 243-246**

**36\*** S. TOUNSI, A. EBN AOUN, M. BLIGHT, A. REBAÏ, **S. JAOUA** (2006)

Evidence of oral toxicity of *Photorhabdus temperata* strain K122 against *Prays oleae* and its improvement by heterologous expression of *Bacillus thuringiensis cry1Aa* and *cry1Ia* genes

**J. Inv. Pathol. 91, 131-135**

**37\*** S. TOUNSI, N. ZOUARI, D. GHRIBI, A. J'MAL AND **S. JAOUA** (2006)

Improvement of *Bacillus thuringiensis*  $\delta$ -endotoxins synthesis yields through acquisition of erythromycin resistance

**Biotechnol. Lett. 28, 315-319**

**38\*** R ZRIBI ZGHAL AND **S JAOUA** (2006)

Evidence of DNA rearrangements in the 128-kilobase pBtoxis plasmid of *Bacillus thuringiensis israelensis*

**Mol. Biotechnol. 33, 191-198**

**39\*** D. GHRIBI, N. ZOUARI, H. TRABELSI AND **S. JAOUA** (2006)

Improvement of *Bacillus thuringiensis* delta-endotoxin production by overcome of carbon catabolite repression through adequate control of aeration

**Enz. Microbiol Technol. 40, 614-622**

**40\***TOUNSI SLIM, BLIGHT MARK, **JAOUA SAMIR**, DE LIMA PIMENTA ANDRÉA (2006)

From insects to human hosts: identification of major genomic differences involved in host adaptation of the emerging human pathogen *Photorhabdus* sp.

**International Journal of Medical microbiology, 296, 521-530**

**41\***S. ROUIS, M. CHAKROUN, I. SAADAOUÏ, AND **S. JAOUA** (2006)

Proteolysis, histopathological effects and immunohistopathological localization of  $\delta$ -endotoxins of *Bacillus thuringiensis* subsp. *kurstaki* in the midgut of Lepidopteran olive tree pathogenic insect *Prays oleae*

**Mol. Biotechnol. 35,1-8**

**42\*** M. KALLASSY AWAD, I. SAADAOUÏ, S. ROUIS, S. TOUNSI AND **S. JAOUA** (2006)

Differentiation between *Bacillus thuringiensis* strains by *gyrB* PCR-*Sau3AI* fingerprinting

**Mol. Biotechnol. 35, 1-7**

**43\***S. KTARI, F. MAHJOUBI, **S. JAOUA**, A. KARRAY, N. MARTY, S. BEN REDJEB, A. HAMMAMI.(2006)

Use of molecular subtyping methods to investigate two nosocomial outbreaks due to *Salmonella* Livingstone in Sfax hospital, Tunisia.

**Path. Biol. 54, 331-336**

**44\*** S. KTARI, F. MAHJOUBI, **S. JAOUA**, A. KARRAY, N. MARTY, S. BEN REDJEB, A. HAMMAMI. (2006) Use of molecular subtyping methods to investigate two nosocomial outbreaks due to *Salmonella* Livingstone in Sfax hospital, Tunisia.

**Path. Biol. 54, 331-336**

**45\*** D. GHRIBI, N. ZOUARI AND **S. JAOUA** (2007)

Use of sea water as salts source in starch and soya bean based media, for the production of *Bacillus thuringiensis* bioinsecticides

**Process Biochem. 42, 374-378**

**46\*** F. DRISS, A. BAANANNOU, S. ROUIS, I. MASMOUDI, N. ZOUARI AND **S. JAOUA** (2007)

Effect of the chitin binding domain deletion from *Bacillus thuringiensis* subsp. *kurstaki* chitinase Chi255 on its stability in *Escherichia coli*

**Mol. Biotechnol. 36, 232-237**

**47\*** R. ZRIBI ZGHAL, H. TRIGUI, M. BEN ALI AND **S. JAOUA** (2008)

A single missens mutation in *Bacillus thuringiensis* subsp. *israelensis* Cyt1A affects its cytotoxicity in *Echerichia coli*

**Mol. Biotechnol. 381, 121-127.**

**48\*** S. ROUIS, M. CHAKROUN, AND **S. JAOUA** (2008)

Comparative study of *Bacillus thuringiensis* Cry1Aa and Cry1Ac  $\delta$ -endotoxin activation, inactivation and *in situ* histopathological effect in *Ephestia kuehniella* (Lepidoptera: *Pyralidae*)

**Mol. Biotechnol. 38, 233-239**

**-COLLABORATIVE PROJECTS: with laboratories from Tunisia, Egypt, Algeria, France, Portugal, Spain, Germany:** Microbial Genetics, Microbial metabolites, biopesticides...

**FINANCIAL SUPPORT: from Tunisian Ministry, ICGEB, TWAS, ISESCO, AUF, NEPAD, ..**

**INTERNATIONAL PATENT**

**JAOUA S**, SCHUPP T and NEFF S ( Nov 1997)

**United States Patent N° : 5,686,295 ; Appl. N° : 276752**

**Process for Genetic Manipulation of Myxobacteria**

Assignee : Novartis Finance Corporation (New York, NK)

**NATIONAL PATENTS**

**1\*JAOUA S**, ZOUARI N, TOUNSI S, BELGUTH-BEN HASSEN N and ELLOUZ R (2000)

Tunisian Patent Appl. N° : 17393, INNORPI

Mise au point d'une collection de 75 souches de *Bacillus thuringiensis* productrices de Bioinsecticides à large spectre d'activités et de bactériocines

*Assignee* : Centre de Biotechnologie de Sfax, Tunisia

**2\*ZOUARI N and JAOUA S** (2000)

Tunisian Patent Appl. N° :410/00, INNORPI

Mise au point de milieux de culture à base de gruau et de farine de poisson pour la production de bioinsecticides à large spectre d'activités, par des souches de *Bacillus thuringiensis*

*Assignee* : Centre de Biotechnologie de Sfax, Tunisia

**3\* SLIM TOUNSI, MARIAM DAMMAK, NABIL ZOUARI ET SAMIR JAOUA** (2004)

Mise au point d'une nouvelle méthode de co-cristallisation de protéines et particulièrement la delta-endotoxine Cry1Ia de *Bacillus thuringiensis* avec les autres delta-endotoxines qui forment le cristal de *Bacillus thuringiensis*.

Tunisian Patent Appl, INNORPI, SN04131

**4\* SAMIR JAOUA**, NABIL ZOUARI, SLIM TOUNSI, SOUAD ROUIS, IMENE SAADAOUI, FAKHER KAMOUN, LOBNA ABDELKEFI-MESRATI, DHOUHA GHRIBI-AYDI ET NAJEH BELGUTH-BEN HASSEN (2004)

Isolement et Mise en oeuvre d'une souche de *Bacillus thuringiensis* productrice d'un nouveau Bioinsecticide actif sur les larves d'insectes appartenant à la famille des lépidoptères

Tunisian Patent Appl. SN4263, INNORPI

**5\* SLIM TOUNSI**, ANIS J'MAL, NABIL ZOUARI & **SAMIR JAOUA (2005)**

Mise au point d'une Méthode Génétique d'Amélioration de la Production de Bioinsecticides de *Bacillus thuringiensis*

Assignee : Centre de Biotechnologie de Sfax, Tunisia

Tunisian Patent Appl. SN5041, INNORPI

**6\* DHOUHA GHRIBI**, NABIL ZOUARI & **SAMIR JAOUA (2005)**

Utilisation de l'eau de mer comme source de sels dans les milieux de production de delta-endotoxines (bioinsecticides) de *Bacillus thuringiensis*

Tunisian Patent Appl, 5040 INNORPI

**7\* AÏDA HMIDA-SAYARI**, AMIRA BIDANI, LEÏLA JAOUA, RADHOUANE ELLOUZ, **SAMIR JAOUA** ET RADHIA GARGOURI-BOUZID (2005)

Construction de Plantes de pomme de terre transgéniques exprimant le gène delta-1 pyrroline-5-carboxylate synthétase conférant la tolérance à la salinité

Tunisian Patent Appl, 5093 INNORPI

**8\* SAMIR JAOUA**, Raïda ZRIBI ZGHAL, Najeh BELGUTH-BEN HASSEN, Mohamed Jemaa et Hichem AZZOUZ (2008)

Un nouveau bioinsecticide d'une souche tunisienne (BUPM98) de *Bacillus thuringiensis israelensis* constitué de nouvelles delta-endotoxines fortement actives sur les larves d'insectes appartenant à la famille des diptères et vecteurs de maladies.

Tunisian Patent Appl, SN08193 INNORPI April 30<sup>th</sup> 2008

## **INTERNATIONAL MEETINGS**

Over the last five years, Samir Jaoua has been invited to present over 20 lectures dealing with his research activities at several international meetings in Europe, Japan, Thailand, India, Middle East and Africa

## **AWARDS:**

-Best awards: Sfax University Expo: « 1999, 2001 & 2005 »: for Scientific Research

-National Legion of Merit for Education & Science (4<sup>th</sup> Category), of the President of Tunisia  
Decision number: 1608 July, 17<sup>th</sup> 2001

## **LIST OF REFEREES**

\*Pr Daniel THOMAS

Director of the Laboratory of Enzymatic Technology, University of Technology of Compiègne,  
Centre de Recherche Royallieu  
60206 Compiègne cedex France

\*Pr Marc Van MONTAGU

Director of the Flemish Institutes of Plant Biotechnology  
Laboratorium Genetika. K L Ledeganckstraate 35. 9000 Gent. Belgium  
E. mail : Mamon@gengenp.rug.ac.be, Tel : 3292645205  
\*Pr Hammadi AYADI

Director General of the Centre of Biotechnology of Sfax.  
P.O.Box. : 1177. 3038. Sfax. Tunisia. Tel/Fax: 21674874446,  
E.mail : Directeur.General@cbs.rnrt.tn

## **LANGUAGES**

Arabic, French and English: well written and spoken  
German: spoken