

## CURRICULUM VITAE

Dr. Alexander Savvides

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**Date of birth** : 04 November 1970  
**Place of birth** : London UK  
**Nationality** : Greek  
**Marital status** : Married with two children  
**Current contact address** : National and Kapodistrian University of Athens, Department of Biology, Section of Botany, Microbiology Group 15784 Athens, Greece  
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**Residence** : 9 Chloe's' str, PO BOX 5784, 19400 Koropi, Attica Greece  
**Military service** : 4/7/1988 – 4/9/1990  
**Status in the University** : **As of December 2001:** Scientific Associate at the Section of Botany, Department of Biology, National and Kapodistrian University of Athens

### EDUCATION

**Degree in Biology**, National and Kapodistrian University of Athens 1995. My graduation Thesis was supervised by the Prof. Karagouni A.D.

**PhD in Biological Sciences** of National and Kapodistrian University of Athens, 2004 titled Study of the physiology of *Zymomonas mobilis* mutant strains with biotechnological interest in batch and continuous flow cultures. My PhD was supervised by Prof. Karagouni A.D.

### FOREIGN LANGUAGES

English

### MAJOR RESEARCH INTERESTS

1. Bioreactor fermentations, biomass and ethanol production in continuous flow cultures and bioreactor modelling and technology.
2. Isolation of environmental strains producing bioactive compounds
3. Study of the microbial colonization on Acropolis marbles and the establishment of methodology for the prevention of biodegradation.
4. Development of quality and quantitative methods for GMO (corn, soya, tomato and cotton) detection. As of March 2002: **Quality Manager** of the GMO detection Laboratory of National and Kapodistrian University of Athens (Certificate Number 91-2 of the Hellenic Accreditation System for GMO detection according to the body of ISO 17025/2005).

### TEACHING EXPERIENCE

During my postgraduate studies i contributed the teaching activities of the Department of Biology, National and Kapodistrian University of Athens as follows:

**1996- present time:** Lab assistant in Microbiology course.

**1999- present time:** Lab assistant in Selected Topics in Molecular and Applied Microbiology course.

**1999- present time:** Lab assistant in Biotechnology course.

**2005- present time:** Organization of two workshops for the masters degree students of “Microbial Biotechnology” masters degree of the Department of Biology, National and Kapodistrian University of Athens. The first workshop is entitled “Genetically Modified Organisms – GMO detection” and the second “Bioreactor – estimation of culture parameters”

Additionally, I contributed to the undergraduate program of the Department of Biology, National and Kapodistrian University of Athens by supervising 22 undergraduate and graduated students through their graduation thesis in Microbiology.

## PARTICIPATION IN RESEARCH PROJECTS

I have participated as a researcher under the supervision of Prof A.D.Karagouni in the following projects:

1. National grand from General Secretariat of Research and Development of Greece (EPET I – Subprogram 1) titled: “An integrated and innovative research and technological approach of the production of biotechnological products from agricultural products and sub products”, 1995-1998.
2. National grand from the Committee for the Conservation of Acropolis Monuments, Greek Ministry of Culture. Titled: “Study of the microbial colonization on Acropolis’ marbles” 1995-1997.
3. NATO Science for stability program, GR-Carob project “Innovative technology for the economic and ecological valorization of carob beans”, 1994-1998.
4. National grand from General Secretariat of Research and Development of Greece (EPET II – Subprogram 1) titled: “An integrated and innovative research and technological approach of the simultaneous production of high value biotechnological products (amino acids and oligo saccharides) from byproducts of sugar industry”, 1998- 2001.
5. EU-Biotechnology project (SMT4-CT96-2072) titled: “Development of methods to identify foods produced by means of genetic engineering (DMIF-Gen)”, 1996-1998. Participation in this program enabled our laboratory to perform the methods that have been established for the detection of GMO (European Committee for Standardization CEN/TC 275 ‘Food analysis. Horizontal Methods’).
6. National grand from the Committee for the Conservation of Acropolis Monuments, Greek Ministry of Culture. Titled: “Study of microbial populations on the monuments of Acropolis” 2002-2005.
7. National grand from the Committee for the Conservation of Acropolis Monuments, Greek Ministry of Culture. Titled: “Microbial diversity on Acropolis’ marbles; establishment of methodology for the prevention of biodegradation” 2006-2010.
8. GMO Detection of corn, soya and derivatives, tomato and cotton. Our laboratory has been accredited (No 91-2/11-03-02) for the detection of GMO in raw and processed materials by the Hellenic Accreditation Council by the standards of ISO17025/2005. During the last 10 years our laboratory has been performing quantitative and qualitative on GMO detection methods on behalf of the Hellenic Ministry of Agriculture, the Ministry of Development and companies that import seeds and animal feed. The number of samples analyzed until today are 1800. 2002-present time
9. Chipita S.A., “Isolation and molecular typing of microbial strains involved in production process” 2005-present time

## PRESENTATION IN INTERNATIONAL CONFERENCES

1. Katsifas E.A., Vionis A.P, Savvides A.L., Koraki D.G., and Karagouni A.D. (1993) Design of soil microcosms for studying the effects of the antibiotic thiostrepton addition to soil and subsequent selective effects on resistance genes. 4<sup>th</sup> Symposium on Bacterial Genetics and Ecology (BAGECO-4), p. 103, Wageningen, The Netherlands.
2. Katsifas E.A., Savvides A. and Karagouni A.D. (1995) The effect of soil type and other environmental parameters on exo/endo-enzyme activity of indigenous *Streptomyces*. International Symposium on the Exploration of Microbial Diversity. The Ecological Basis and Biotechnological Utility, p. 56, Goslar, Germany.
3. Savvides A. and Karagouni A.D. (1997) Ethanol production by *Zymomonas mobilis* in continuous fermentation of sugar beet molasses. 11<sup>th</sup> Forum for Applied Biotechnology, p. 1909, Gent, Belgium.
4. Savvides A.L. and Karagouni A.D. (1998) Physiological studies of *Zymomonas mobilis* CP4 sucRpDS3154imaz and *Zymomonas mobilis* sucRpBZIP1 in continuous - flow culture for simultaneous ethanol and ice nucleation protein production from sugar beet molasses. 8<sup>th</sup> International Symposium of Microbial Ecology (ISME-8), p. 292, Halifax, Nova Scotia, Canada.
5. Chalkou K. I., Savvides A.L. and Karagouni A.D. (1999) The role of the enzyme Glucose-6-P dehydrogenase on the ethanol production in steady state continuous- flow culture of *Z. mobilis* CP4 suc<sub>40</sub>/pDS3154inaZ. 13<sup>th</sup> Forum for Biotechnology, Gent, Belgium.
6. Karagouni A.D., Katsifas E., Savvides A., Koraki T., Giannoutsou E., Nikolakopoulou T., Chalkou K. and Meintanis C. (2003) The activities of Streptomycetes in Mediterranean regions. 13<sup>th</sup> International Symposium on the Biology of *Actinomycetes* (ISBA-13), p. 35, Melbourne, Australia.
7. Magkouta S.F., Meintanis C.K., Savvides A. and Karagouni A.D. (2005) The bacterial chemolithotrophic community in Acropolis marbles. 8<sup>th</sup> Symposium on Bacterial Genetics and Ecology (BAGECO-8), p.

- 103, Lyon, France.
8. Andriopoulos C.F., Savvides A. and Karagouni A.D. (2005) Isolation and identification of novel *Pseudomonas syringae* strains with biotechnological applications. 8<sup>th</sup> Symposium on Bacterial Genetics and Ecology (BAGECO-8), p. 109, Lyon, France.
  9. Lymperopoulou D.S., Katsifas E.A., Koraki T.G., Savvides A., Giannoutsou E., Nikolakopoulou T.L., Meintanis C., Chalkou K., Kanini G.S., Delatola E., Fiedler H.P. and Karagouni A.D. (2007) Metabolically and genetically active streptomycetes from important Greek habitats. 14<sup>th</sup> International Symposium on the Biology of *Actinomyces* (ISBA-14), p. 188, Newcastle, UK.
  10. Kanini G.A., Hatzinikolaou D.G., Savvides A., Katsifas E.A. and Karagouni A.D. (2008) Antagonistic activity of Greek indigenous streptomycetes for the control of bean damping-off caused by *Rhizoctonia solani*. 4<sup>th</sup> International Symposium on *Rhizoctonia*, Berlin, Germany.
  11. Tsakiroglou P., Kanini G., Savvides A., Papakostantinou E., Katsifas E.A. and Karagouni A.D. (2010) Effect of antimicrobial agents on indigenous population of the chemolithotrophic bacteria in marbles. XXXIII International Congress on Microbial Ecology and Disease (SOMED), Greece.
  12. Delliou A.A., Mamouha S., Savvidis A., Fakiri E. and Karagouni A.D. (2011) Bioactivity of streptomycetes strains isolated from specific Greek ecosystems. 11<sup>th</sup> Symposium on Bacterial Genetics and Ecology (BAGECO-11), Corfu, Greece.
  13. Delliou A.A., Savvides A.L., Katsifas E.A. and Karagouni A.D. (2013) Dermocosmetics: Microbial Diversity in Raw materials and Finished Product. 12<sup>th</sup> Symposium on Bacterial Genetics and Ecology (BAGECO-12), Ljubljana, Slovenia.

#### **PARTICIPATION IN WORKSHOPS**

1. EERO (European Environmental Research Organisation) ETC-course “on soil pollution and risk assessment-a course on pollution analysis and risk management.” Bremen, Germany, 1994
2. EEC, DG XII Biotechnology R & D Program “on Plasmid Stability-Horizontal Gene Transfer - Environmental Implications” Ioannina, Greece, 1996
3. Scientific and Training Center of Chemical Engineers “General requirements for the competence of testing and calibration laboratories according to ISO 17025:2005 – calibration, validation, Expressions of the Uncertainty of Measurements, quality control”, Athens, Greece, 2010
4. “Skills Development for more efficient Management for the government Sector” Training Centre of the National and Kapodistrian University of Athens (UOA). A twelve month course, Athens, Greece 2012.
5. “Evaluation and Quality management in education” Training Centre of the National and Kapodistrian University of Athens (UOA), code no. EQUAS 4, Athens, Greece 2013.

#### **PUBLICATIONS**

1. Savvides AL, Kallimanis A, Varsaki A, Koukkou AI, Drainas C, Typas MA & Karagouni AD (2000) Simultaneous ethanol and bacterial ice nuclei production from sugar beet molasses by a *Zymomonas mobilis* CP4 mutant expressing the *inaZ* gene of *Pseudomonas syringae* in continuous cultures. *J. Appl. Microbiol.* 89: 1002-1008.
2. Savvides AL, Chalkou KI, Typas MA & Karagouni AD (2001) Enzymes of Entner-Doudoroff and pyruvate decarboxylation pathway in *Zymomonas mobilis* wild type CP4 and mutant strains grown in continuous culture. *Antonie van Leeuwenhoek.* 80: 287-295.
3. Savvides A.L., Andriopoulos C.P., Kormas K.K., Hatzinikolaou D.G., Katsifas E.A. & Karagouni A.D. (2011) Selective isolation of indigenous *Pseudomonas syringae* strains with ice nucleation activity properties from a ski resort. *Journal of Biological Research-Thessaloniki* **15**: 67 – 73.
4. Savvides AL, Katsifas EA, Hatzinikolaou DG & Karagouni AD. (2012) Xanthan production by *Xanthomonas campestris* using whey permeate medium. *World J Microbiol Biotechnol.* **28**: 2759-2764.
5. Kanini G, Katsifas EA, Savvides AL, Hatzinikolaou, DG, Karagouni AD (2013) Greek indigenous streptomycetes as biocontrol agents against the soil-borne fungal plant pathogen *Rhizoctonia solani*. *J. Appl. Microbiol.* **114**: 1468-1479.
6. Stathopoulou PM, Savvides AL, Karagouni AD and Hatzinikolaou DG (2013) Unraveling the lipolytic activity of thermophilic bacteria isolated from a volcanic environment, *BioMed Research International*, Vol.2013, Article ID 703130, 13 pages.

7. Kanini G, Katsifas EA, Savvides AL, Karagouni AD (2013) *Streptomyces rochei* ACTA1551, an indigenous Greek isolate studied as a potential biocontrol agent against *Fusarium oxysporum* sp. *lycopersici*, *BioMed Research International*, vol. 2013, Article ID 387230, 10 pages,
8. Serelis J, Papaparaskevas J, Stathi A, Savvides AL, Karagouni AD, Tsakris AZ, Pangalis A. (2013) Granulomatous infection of the hand and wrist due to *Azospirillum* spp. *Diagnostic Microbiology and Infectious Disease*, *In press*.

#### **OTHER ACTIVITIES**

1. 1996 Member of the organizing committee of the international symposium BAGECO 5 (Bacteria-Genetics and Ecology).
2. 1999 Member of the organizing committee of the international symposium ISBA 11<sup>th</sup> (International Symposium on Bacteria and Actinomyces)
3. 2011 Member of the organizing committee of the international symposium BAGECO 11 (Bacteria-Genetics and Ecology).
4. Member of the Hellenic Initiative Microbiokosmos