

CURRICULUM VITAE

SURNAME: Houhoula
NAME: Dimitra
NATIONALITY: Greek
DATE OF BIRTH: 18-5-1973
PLACE OF BIRTH: Athens, Greece
FAMILY STATUS: Married with two children
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GRADUATE STUDIES

- 1992: Entered 4th in the Department of Chemistry of National University of Athens.
- 1997: Graduation (grade of Diploma "Very Good").
- Diploma thesis: "Application of electronic paramagnetic resonance for the study of hydroxyl radicals generated by fibrous and non-fibrous dusts: their significance for pathogenesis of occupational respiratory diseases".

POSTGRADUATE STUDIES

- P.h.D from the Department of Chemistry and Food Technology Faculty of Chemical Engineering of National Technical University of Athens, entitled "Study of thermooxidative alterations of oils and the effect of natural antioxidants during frying of food" (July 2003).
- Ph.D. from the Laboratory of Microbiology, Medical School of Athens entitled: "Molecular Diagnosis in mycobacteriaceae (July 2006).

AWARDS

- Papastamatis second prize on: "The epidemiology of pulmonary tuberculosis patients in two hospitals in Athens" Houhoula D. N. Skarmoutsou E. Faviou, H. Fakiri, S. Nicholas C. Vletsas, V. Tamvakis, E. Papafrangas S. Kanavaki C. Urla, UTH. Tassios, N. Legakis, L. Zervas. In the 31st National Medical Conference, May 2005.

- November 2005 to April 2007: Post-doctoral researcher with a grant of the Foundation Scholarship (IKY) in Molecular Diagnosis of Bacterial Infections in the field of Microbiology, University of Athens entitled "Development of conventional and molecular method to control a vector of hospitalized patients with resistant anaerobic bacteria to antibiotics. Application of methodology to control the trucks hospitalized patients a tertiary hospital in Athens and its correlation with the consumption of antibiotics "

POSITIONS

- Department of Chemistry and Food Technology Faculty of Chemical Engineering of National Technical University of Athens.
 - 1999-2001: Research scientist at the program "Enzymatic modification of natural antioxidants aiming at the optimization of their recapture process due to industrial waste and the improvement of their qualities" (September 1999-May 2001), in collaboration with VIORYL (Chemical and Agricultural Industry-Scientific Research Inc.).
 - Responsible Chemical to conduct laboratory experiments of the Laboratory of Chemistry and Food Technology in their respective courses of the seventh and eighth semester of the Department of Chemical Engineering (1997-2003).
 - National Technical University of Athens (Laboratory of Food Chemistry and Technology). Supervision of graduate student thesis at the Laboratory of Food Chemistry and Technology entitled: Study of the thermooxidative deterioration of oils. (1997-1998).
- Institute for Defense Analyses (Ministry of National Defence) Preparation work as a researcher in Chemical-item: "Design methods for quality control of maintenance of the Armed Forces and energy value". (September 1998-September 1999).
- Institute for Defense Analyses (Ministry of National Defence) Preparation work as Chemical-researcher with the subject: "Study of the

environment and recording of factors may be causes of diseases and their effects on both physical and psychological work performance" (February 2000-August2000).

- Institute for Defense Analyses (Ministry of National Defence) Study in Chemical-researcher on the subject: Study atomic, chemical and biological warfare" (October 2001 - October 2002).
- 2001-2003: Department of Microbiology, Medical School, University of Athens: "Chemical-researcher in the Laboratory of Microbiology, Medical School University of Athens (September 2001-September2003). Scientific Diagnostic and Research Support Project and Training Project for Laboratory Exercises for Students of Medicine. (Use of chemical analysis techniques such as HPLC and GC, molecular biology for the diagnosis of microbial infections and standardization of dangerous bacteria as a Senior Research Chemist).
- Medical School, University of Athens (Laboratory of Microbiology, General University Hospital Attikon) Lecturer for teaching the course 'Microbiology' students of the Medical School (October 2003-August 2004).
- Medical School, University of Athens (Laboratory of Microbiology) Postdoctoral Chemist-employed researcher at the Laboratory of Molecular Diagnosis of Bacterial Infections in the field of Microbiology, University of Athens under the research program PYTHAGORAS II, entitled "Study on conventional techniques of molecular microbiology and Gram-negative anaerobic bacteria isolate infections" (using techniques such as chemical analysis HPLC and GC, molecular biology for the diagnosis of microbial infections and standardization of dangerous bacteria as a Senior Research Chemist). (April 2005 - December 2007).
- Collaborating Researcher. Technological Educational Institute of Athens, Laboratory of Food Analysis II of the Department of Food Technology (October 2007 - July 2008).

- Collaborating Researcher. Technological Educational Institute of Athens, Laboratory of Food Chemistry of the Department of Food Technology, (October 2008 - January 2009).
- Lecturer in Laboratory of Food Chemistry of the Department of Food Technology, of Technological Educational Institute of Athens (January 2000-present).

TEACHING EXPERIENCE

- 1) October 2007 – July 2008: Collaborating Researcher
Department of Food Technology, Technological and Educational Institution of Athens, Egaleo, Greece.
Courses taught: Food Instrumental Analysis
- 2) October 2008 – January 2009. Collaborating Researcher
Department of Food Technology, Technological and Educational Institution of Athens, Egaleo, Greece.
Courses taught: Food Chemistry.
- 3) January 2009 –present. Lecturer in Laboratory of Food Chemistry
Department of Food Technology, Technological and Educational Institution of Athens, Egaleo, Greece.
Courses taught: Food Chemistry and Biochemistry.
- 4) Participation in teaching of MSc courses with lectures about Molecular Techniques in Food.
- 5) Supervisor of researcher thesis of undergraduate students of the Department of Food Science and Technology (Mainly in Molecular Techniques in Food Allergens and Food Microbiology and Nutrition and Health) (2008 – present).

WORKSHOP

- Paris 2002
Workshop at the Institute Pasteur with title: «Outils Moleculaires et Epidemiologie de la Tuberculose»

LABORATORY EXPERIENCE/ TRAINING

- photometer uv/vis, HPLC (High Performance Liquid Chromatography), GC/MS (Gas Chromatography/Mass spectrometry), GPC (Gel Permeation Chromatography) ESR (Electron Spin Resonance), IR (Infrared), NMR (Nuclear Magnetic Resonance), FTIR (Fourier Transform Infrared)
- conventional microbiological techniques (cultures and serology) immunoenzymatic methods, ELISA for the diagnosis of bacterial infections.
- application of molecular biology techniques PCR (Polymerase chain reaction), Real Time PCR PFGE (Pulsed Field Gel Electrophoresis), Spoligotyping, RFLP (Restriction Length Polymorphism), LM-PCR (Ligation Mediated Polymerase Chain Reaction), MIRU's (Mycobacterial Interspersed Repetitive Units) for the diagnosis and typing of infectious diseases, Real Time PCR.

PUBLICATIONS

1. Valavanidis A, D. Houhoula and A.Theodoropoulou (1996). A study of hydroxyl radicals generated by fibrous and non-fibrous dusts: their significance for lung cytotoxicity and occupational diseases and the use of antioxidants for disease prevention. *Pharmakeftiki* 9, 145-148, 1996.
2. Valavanidis A, A.Theodoropoulou and D. Houhoula (1996). Exposure to fibrous and non-fibrous dusts, generation of oxygen free radicals and occupational lung diseases. *Review of Clinical Pharmacology and Pharmacokinetics* 10, 99-119, 1996.
3. Valavanidis A, B. Violakis, A.Theodoropoulou and D. Houhoula. (1997). Study of the significance of iron on carcinogenesis. Mechanisms of generation of oxygen free radicals generated by fibrous and non-fibrous dusts in the occupational environment. *Greek Oncology* 33,46-56,1997
4. D.P. Houhoula, V. Oreopoulou and C. Tzia. A kinetic study of oil deterioration during frying and a comparison with heating. *J. Am. Oil Chem. Soc* 79,133-137 (2002).

5. D.P. Houhoula, V. Oreopoulou and C. Tzia. The effect of process time and temperature on the accumulation of polar compounds in the oil during deep-fat frying *Journal of the Science of Food and Agriculture* 83:314-319 (2003).
6. D.P. Houhoula, V. Oreopoulou and C. Tzia. Antioxidant efficiency of oregano during frying and storage of potato chips *Journal of the Science of Food and Agriculture* 83:1499-1503 (2003).
7. D.P. Houhoula and V. Oreopoulou. Predictive study for the extent of deterioration of potato chips during storage. *Journal of Food Engineering* 65: 427-432 (2004).
8. D. P. Houhoula, V.Oreopoulou and C. Tzia. Antioxidant efficiency of oregano in frying and storage of fried products. *European Journal of Lipid Science and Technology* 106 (11): 746-751 (2004)
9. Papaparaskevas J, D.P.Houhoula, M. Papadimitriou, G. Saroglou, N.J Legakis and L. Zerva. Ruling out *Bacillus anthracis*: Evaluation of Methology. *Emerging Infectious Diseases* 10(4):732-735 (2004).
10. D. Houhoula Skarmoutsou N, E. Faviou, H Fakiri, S Nikolaou, C Vletsas, W Tamvakis, E Papafragas, S Kanavaki, K Masselou, A Tarpatzi, N. Legakis and L.Zerva. Epidemiology of pulmonary tuberculosis among patients of two hospitals in Athens. *Archives of Hellenic Medicine* 23(1)52-62.
11. A. Katsandri, A Pantazatou, GL Petrikos, D.P. Houhoula, NJ Legakis, J Papaparaskevas, A Avlami. 2006. Two cases of infections due to multi-drug resistant *Bacteroides fragilis* group strains. *Journal of Clinical Microbiology*, 44(9):3453-3467.
12. A. Katsandri, A Avlami, A Pantazatou, D. Houhoula, J Papaparaskevas. 2006. Dissemination of *nim*-class genes, encoding for nitroimidazole resistance, among different species of Gram-negative anaerobic bacteria, isolated in Athens, Greece. *Journal of Antimicrobial Chemotherapy* 705-706.
13. J Papaparaskevas, A Pantazatou, A. Katsandri, D. Houhoula, Tsakris A, NJ Legakis and A Avlami, 2008. Moxifloxacin resistance is prevalent

among *Bacteroides* and *Prevotella* species in Greece. *Journal of Antimicrobial Chemotherapy* 62(1) 137-141.

14. J. Papaparaskevas, D.P. Houhoula, A. Siatelis and A. Tsakris, 2008. Molecular beacon based Real-Time PCR assays, in technology, for detection and quantification of *Mycobacterium tuberculosis* in clinical samples. *Journal of Clinical Microbiology*, 46(9):3177-3178.
15. Pittaras TE, J Papaparaskevas, DP Houhoula, NJ Legakis, E Frangouli, Katsambas A, A. Tsakris and H Papadogeorgakis. 2008. Comparison of penile skin swab with intra-urethral swab and first void urine for polymerase chain reaction-based diagnosis of *Chlamydia trachomatis* urethritis in male patients. *Sex. Transm. Dis.* 2008 Dec;35(12):999-1001.

PRESENTATIONS

1. Theodoropoulou A, D. Houhoula, Zarodimos I, Salika A and A. Valavanidis. A study of hydroxyl radicals generated by fibrous and non-fibrous dusts due to air pollution. 1st Panhellenic Meeting of Free Radicals and Oxidation Stress. Ioannina, Greece, 1998.
2. Houhoula D.P., V.Oreopoulou and C.Tzia. Antioxidant from *Salvia Triloba*. 2nd Meeting of the European Section of American Oil Chemists' Society. Cagliari, Italy, 1998.
3. Houhoula D.P., V.Oreopoulou and C.Tzia. Thermooxidative alterations of cottonseed oil and the effect of oregano. Eighth International Congress of Engineering and Food. Puebla, Mexico, 2000.
4. Houhoula D.P., V.Oreopoulou and C.Tzia. Antioxidative efficiency of oregano extracts on storage of fried products. 92nd AOCS Annual Meeting & Expo Minneapolis, Minnesota, USA, 2001.
5. Houhoula D.P., V.Oreopoulou and C.Tzia. Kinetic study of thermooxidant deterioration of cottonseed oil during frying. 3rd Panhellenic Meeting of Chemical Engineering Athens, Greece, 2001.
6. Houhoula.D.P and C.Tzia. Safety of fried foods and HACCP. 17th International Congress of Nutrition Vienna Austria 2001.

7. Houhoula D.P and V. Oreopoulou. Study of the alterations of cottonseed oil during frying and the effect of extracts of oregano. 17th International Congress of Nutrition Vienna Austria 2001.
8. D.P Houhoula, J. Papaparaskevas, S. Nikolaou, E. Vogiatzakis, N.J. Legakis and L.Zerva. The DNA extraction method critically affects PCR sensitivity for the diagnosis of tuberculosis. 2ndBalkan Conference of Microbiology, Thessaloniki, Greece, (2001).
- 9.Houhoula D.P., J. Papaparaskevas, S. Nikolaou, E. Vogiatzakis, N.J. Legakis and L. Zerva. The DNA extraction method critically affects PCR sensitivity for the diagnosis of tuberculosis. 12th European Congress of Clinical Microbiology and Infectious Diseases, Milan, Italy 2002
10. Houhoula D.P. J. Papaparaskevas, S. Nikolaou, E. Vogiatzakis, N.J. Legakis and L.Zerva. Evaluation and Optimization of three DNA extraction methods for the Molecular Diagnosis of Tuberculosis 23rd Annual Congress of the European Society of Mycobacteriology. Dubrovnik, Croatia 2002.
11. Houhoula D.P, C.Tzia and V.Oreopoulou. Antioxidant efficiency of oregano during frying and during storage of potato chips. 4^o Panhellenic Conference Chemical Engineering, Patra, Greece, (2003).
12. Papaparaskevas J, M. Papadimitriou, D.P.Houhoula, G. Saroglou, N.J Legakis and L. Zerva. Rulling out *Bacillus anthracis*: Evaluation of methology. 13th European Congress of Clinical Microbiology and Infectious Diseases, Glasgow, U.K (2003).
13. D.P Houhoula, E. Balis, J. Papaparaskevas, N.J. Legakis and L.Zerva. Detection of Chlamydia pneumoniae in respiratory tract specimens by PCR: evaluation of methology. 13th European Congress of Clinical Microbiology and Infectious Diseases, Glasgow, U.K (2003).
14. D.P Houhoula, E. Balis, J. Papaparaskevas, N.J. Legakis and L.Zerva. Detection of Chlamydia pneumoniae in respiratory tract specimens by PCR: evaluation of methology. 29^o Panhellenic Medical Conference, Athens Greece (2003).

15. Flountzi A, D. Houhoula, A. Priftis, L. Zerva and N. Legakis. Quality assurance in molecular diagnosis of tuberculosis. 3^o Panhellenic Conference of Biopathology, Thessaloniki, Greece (2004).
16. Flountzi A, D. Houhoula, A. Priftis, L. Zerva and N. Legakis. Quality assurance in molecular diagnosis of tuberculosis 14th European Congress of Clinical Microbiology and Infectious Diseases, Prague/ Czech Republic (2004).
17. Skarmoutsou N, E. Faviou, S Nikolaou, H Fakiri, A Skroubelou, C Vletsas, V Tamvakis, E Papafragas, V Sgountzos, A Papavassiliou, S Kanavaki, D. Houhoula, N. Legakis and L.Zerva. Epidemiology of Pulmonary Tuberculosis In Athens, Greece. 25th Annual Congress of the European Society of Mycobacteriology, Sardinia, Italy (2004).
18. Skarmoutsou N, E. Faviou, S Nikolaou, H Fakiri, A Skroubelou, C Vletsas, V Tamvakis, E Papafragas, V Sgountzos, A Papavassiliou, S Kanavaki, D. Houhoula, N. Legakis and L.Zerva. Epidemiology of Pulmonary Tuberculosis In Athens, Greece. 2^o Annual Scientific Conference of Medical School, Athens (2005).
19. D. Tsimogiannis, M Stavrakaki, G. Kouri, A. Lamba, D. Houhoula, S. Kiokias and V. Oreopoulou.. Antioxidant efficacy of flavonoids and their receipt from aromatic plants. 1^o Panhellenic Conference of Euro Fed Lipid (Current Trends in the field of oils and fats), Athens, Greece (8-9 June 2005).
20. D. Houhoula, and V. Oreopoulou. Predictive study for the extent of deterioration of potato chips during storage. 1^o Panhellenic Conference of Euro Fed Lipid (Current Trends in the field of oils and fats), Athens, Greece (8-9 June 2005).
21. Skarmoutsou N, D. Houhoula E. Faviou, H Fakiri, S Nikolaou, C Vletsas, W Tamvakis, E Papafragas, S Kanavaki, K Masselou, A Tarpatzi, N. Legakis and L.Zerva. Pulmonary tuberculosis among in patients in Greece and report of an outbreak. 26th Annual Congress of the European Society of Mycobacteriology, Istanbul Turkey (June 26-29, 2005).
22. A. Katsandri, D.P. Houhoula, GL Petrikos, NJ Legakis, J Papaparaskevas, A Pantazatou, A Avlamis. High incidence of moxifloxacin resistance among *Bacteroides spp.* Isolates in Greece. Results from the

Hellenic Study Group on Gram-Negative Anaerobic-Bacteria. 16th European Congress of Clinical Microbiology and Infectious Diseases, Nice France (1-4 April 2006).

23. A. Katsandri, A Pantazatou, G. Thomopoulos, G. Petrikos, D.P. Houhoula, J Papaparaskevas, NJ Legakis and A Avlamis. Infectious Diseases from multiresistant strains of *Bacteroides fragilis* group. 4^o Panhellenic Conference of Biopathology, Athens, Greece (12-15 April 2006).

24. A. Katsandri, D.P. Houhoula, J Papaparaskevas, A Pantazatou, S Neofotistou A Avlamis and NJ Legakis. High incidence of moxifloxacin resistance among *Bacteroides spp.* Isolates in Greece.. 4^o Panhellenic Conference of Biopathology, Athens, Greece (12-15 April 2006).

25. H Papadogeorgakis, J Papaparaskevas, T. Pittaras, DP Houhoula, E Frangouli, NJ Legakis. False negative results with molecular techniques in ourithritida by *Chlamydia trachomatis*: a case report. 4^o Panhellenic Conference of Biopathology, Athens, Greece (12-15 April 2006).

26. T. Pittaras, DP Houhoula, J Papaparaskevas, E Frangouli, NJ Legakis and H Papadogeorgakis. Detection of *Chlamydia trachomatis* in symptomatic male patients using samples from four different anatomic sites with nucleic acid amplification tests-NAAT's. 5th Congress of the European Academy of Dermatology and Venereology. Rhodes, Greece (4-8 October 2006).

27. D.P. Houhoula, A. Siatelis, N.J. Legakis, A. Tsakris, and J. Papaparaskevas. Evaluation of Real-Time PCR assays, based in molecular beacon technology, for detection and quantification of *Mycobacterium tuberculosis* DNA. 17th European Congress of Clinical Microbiology and Infectious Diseases, Munich/Germany (31-3 April 2007).

28. T. Pittaras, DP Houhoula, J Papaparaskevas, NJ Legakis, A Katsambas, E Frangouli, and H Papadogeorgakis. Investigation of non-invasive samples to control infection by *Chlamydia trachomatis*. 9th National Congress of Dermatology and Venereology, Athens, 14-17 June 2007.

29. J. Papaparaskevas, A. Siatelis, D.P. Houhoula, C Constantinides and A. Tsakris. PCR based detection of Bacillus Calmette-Guerin in clinical specimens

following intravesical immunotherapy for bladder carcinoma. 48th ICAAC/IDSA 46th Annual Meeting, Washington DC- 25-28 October 2008.

30. D. Houhoula, S. Konteles D. Kizis, N. Poggas M. Bratakos, K. Harvalos and S. Koussissis. Application of genotyping method with Multiple Locus Variable number of tandem repeat (MLVA) *Listeria Monocytogenes* in strains isolated from food and clinical samples. 3rd National Congress of Biotechnology and Food Technology Rethymnon 15-17 October 2009.

FOREIGN LANGUAGES

English and French (Excellent)

COMPUTER KNOWLEDGE

- ❖ Excellent Knowledge of Ms Office (Word, Excel, Powerpoint). ECDL (European Computer Driving Licence) Core Certificate, success in all sections (7) which required for the certificate.