



**First and Last name:** FERAS I. QANAZE

**Academic degree and position:** Assistant Professor, PhD.

**Specialty:** Bio-pharmacokinetics and drug technology (industrial).

**Institution:** Al Najah National University, Medicine and Health science-Pharmacy school,  
Pharmaceutics Dep.

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**Biography:**

2005-2007 Post doctoral studies, in the department of pharmacy at Aristotle University of Thessaloniki-Greece, with a title ‘Development of new biodegradable polyester carriers for controlling drug release of Raloxifene by nano particles preparation’ PAVET Research program (code no. 81082).

2001-2005 Doctorate degree in the department of pharmacy at Aristotle University of Thessaloniki-Greece with a title ‘‘Drug technology and biopharmacokinetics of flavonoids’’

Supervisors: Prof. Emmanoel Georgarakis, department of pharmacy at Aristotle University of Thessaloniki-Greece.

Supervisors: Dr I. Ntopas and Eug. Kokkalou, Assistant professors, department of pharmacy at Aristotle University of Thessaloniki-Greece, with an Excellent degree.

- 1994-1999 Bachelor degree in pharmacy, in the Department of Pharmacy at Al-Najah National University, Nablus-Palestine. Graduation with a degree of 87.2 % (Excellent).
- 1993-1994 School of graduation Qadry Toqan, Nablus-Palestine with degree 93.7% (Excellent).

### **Work Experience:**

- Assistant Professor at Al Najah University, Pharmacy School. Teaching Industrial Pharmacy, Pharmaceutics, Instrumental Analysis, Analytical Chemistry and Quality control (Q.C.) (20/01/2012) in both master and bachelor programs.
  - Working as “Head of Registration Department at Sama Pharmaceuticals and as Scientific Coordinator”. Registration department of Sama Pharmaceuticals (05/02/2012).
  - Working as “a Scientific Coordinator and Drug Formulation Development manager” in the Formulation department of ALAPIS R&D Technology Center- Alapis Group of companies (23/03/2009-01/01/2012).
  - Work in KLEVA Pharmaceutical Company, as supervisor OF Formulation Department, lab-Pilot Scale Production (14/01/2009-22/03/2009).
  - Work in Pharmathen Industrial-Pharmaceutical Company- Aristotle University, as supervisor in the innovative drug formulation (drug controlled release, sustained and immediate by polymer membrane permeation, polymer matrix diffusion polymer membrane/matrix, floating systems, solid dispersion systems and nano encapsulation), dissolution and modeling studies and validation and quantitative analysis, in the technology labs (THE CENTER FOR RESEARCH AND TECHNOLOGY HELLAS, CERTH) in Themi-Thessaloniki, Greece (13/3/2006-15/1/2009).
- A. Politis S.N., Qanaze F.I., Koftis H., Georgopoulou I., Karabas E. Manipulable sustained release pharmaceutical composition for ODV. PHARMATHEN.
- B. Politis S. N., Qanaze F.I., Karavas E., Skopelitis K., Manipulable sustained release pharmaceutical composition for water soluble APIs. PHARMATHEN.
- Work in the research program of PAVET ‘Development of new pharmaceutical formulations to increase and prolong pharmacological effect of Nimodipine and Lercanidipine by using floating devices’ (01/10/2006-01/11/2007).

- Work in the research program of PAVET ‘Nano-technology and chrono-therapy combination for the development of new pharmaceutical administration systems of Ropinirole aiming at the effective treatment of Restless Legs Syndrom (RLS)’ (01/10/2006-01/11/2007).
- Work in the research program of PAVET ‘Development of new biodegradable polyester carriers for controlling drug release of Raloxifene by nano particles preparation’ (01/10/2006-01/11/2007).
- Work as a supervisor assistant with professor M. Georgarakis in Doctorate programs of Aristotle University, Pharmacy school, drug control department, and with professor D. Pikiaris, Chemistry school, Polymer department, Thessaloniki Greece (13/3/2006-01/01/2009).
  - A. Doctorate degree in the department of pharmacy at Aristotle University of Thessaloniki-Greece with a title ‘Design and development of new methods for alternative systems of modified drug release’, by Barmpalexis Panagiotis (2007-2010).
  - B. Master degree in the department of Chemistry at Aristotle University of Thessaloniki-Greece with a title ‘The study of solid dispersions and release mechanisms of Tolterodine with Carrageenans L’, by Nanaki Stauroula (20/06/2007).
- Work in drug Bio-equivalent Studies Lab. as laboratory director, for the analysis Part by High Performance Liquid Chromatography ‘Bio-design’ (20/07/2005-12/03/2006).
- Work in the research program of PITHAGORAS ‘Increasing drug dissolution and bioavailability by micro-encapsulation and solid dispersion techniques’ (01/10/2004-31/08/2006).
- Supervision of laboratorial exercises in the department of pharmacognosy-Pharmacology (program code 21079) (01/01/2004-31/12/2004).
- Dispensing drugs at a community pharmacy (01/03/1998-01/09/1998).

### **Teaching courses:**

- Pharmaceutical analysis (Master-pharmacy school).
- Industrial pharmacy (Bachelor-pharmacy school).
- Quality control (QC) (Bachelor-pharmacy school).
- Pharmaceutics Lab (Bachelor-pharmacy school).
- Instrumental analysis lab (Bachelor-pharmacy school).
- Pharmacy law (Bachelor-pharmacy school).
- Pharmaceutical marketing (Bachelor-pharmacy school).

### **Research interests:**

- Extraction (Soxhlet, exhausted, solid and liquid-liquid) for Plant materials (Roots, Leaves, Seeds and Fruits).
- Chromatographic separation and elucidation of plant active chemical compounds by UV Spectroscopy and MS-DAD-HPLC (Flavonoids).
- Analytical method development and validation by HPLC.
- Pharmacokinetic and bioequivalent studies.
- Sample Preparation and Quantitative analysis of drugs and their metabolites in the biological fluids or pharmaceutical formulations.
- Conventional Drug, Food Supplement and herbal Formulations (generic and innovative):
  - Solid Preparations (Tablets, Capsules,...).
  - Liquid Preparation (oral solutions, Oral drops,...).
  - Nasal and Ophthalmic Drug Formulations.
- Drug formulation technology based on polymer matrix, polymer membrane, floating devices, solid dispersion systems (solvent and hot melt preparation methods) and nano-encapsulation for controlling drug release.
- Drug formulation based on Nano particle technology for controlling drug release.
- Physicochemical characterization of solid dispersion systems by Fourier Transfer Infra Red (F.T.I.R), differential scanning calorimeter (DSC), scanning electronic microscopy (SEM), transitional electronic microscopy (TEM) and Powder X-Ray analysis (XRD).
- Drug dissolution and modeling studies:
- Solid Drug Formulations:
  - Immediate release.
  - Sustained release.
  - Semisolid Drug Formulations:
    - Cream Preparations.
    - Ointment Preparations.
    - Gel Preparations.
    - Lotion Preparations.
- Stability studies and shelf life prediction.

### **Publications:**

- Kanaze FI, Gabrieli C, Kokkalou E, Georgarakis M, Niopas I.  
Simultaneous reversed-phase high-performance liquid chromatographic method for the determination of diosmin, hesperidin and naringin in different citrus fruit juices and pharmaceutical formulations.  
J Pharm Biomed Anal. 2003 Sep 19; 33(2): 243-9.
- Kanaze FI, Kokkalou E, Georgarakis M, Niopas I.

Validated liquid chromatographic method utilizing solid phase extraction for the simultaneous determination of naringenin and hesperetin in human plasma.

J Chromatogr B Analyt Technol Biomed Life Sci. 2004 Mar 5; 801(2): 363-7.

- Kanaze FI, Kokkalou E, Georgarakis M, Niopas I.  
Validated liquid chromatographic method utilizing solid phase extraction for the simultaneous determination of naringenin and hesperetin in human urine.  
Pharm Biomed Anal. 2004 Sep 21; 36(1): 175-81.
- Kanaze FI, Melpomeni I, Bounartzi, Niopas I.  
A validated HPLC determination of the flavone aglycone diosmetin in human plasma.  
Biomed. chromatogr. Biomed Chromatogr. 2004 Dec;18(10): 800-4.
- Bozikas VP, Niopas I, Kafantari A, Kanaze FI, Gabrieli C, Melissidis P, Gamvrula K, Fokas K, Karavatos A.  
No increased levels of the nicotine metabolite cotinine in smokers with schizophrenia.  
Prog Neuropsychopharmacol Biol Psychiatry. 2005 Jan; 29 (1): 1-6. Epub 2004 Dec 08.
- Kimiskidis VK, Niopas I, Firinidis PD, Kanaze FI, Gabrieli C, Kazis D, Papagiannopoulos S, Kazis A.  
Frequency distribution of dextromethorphan O-demethylation in a Greek population.  
International J. of Clinical pharmacology and Therapeutics. 2005; 43: 150-153.
- Dimitrios Bikiaris, George Z. Papageorgiou, Anagnostis Stergiou, Eleni Pavlidou, Evangelos Karavas, Feras Kanaze, Manolis Georgarakis.  
Physicochemical studies on solid dispersions of poorly water-soluble drugs. Evaluation of capabilities and limitations of thermal analysis techniques.  
Thermochimica Acta. 2005; 439: 58-67.
- F. I. Kanaze, E. Kokkalou, I. Niopas, M. Georgarakis, A. Stergiou, D. Bikiaris.  
Dissolution Enhancement of Flavonoids by Solid Dispersion in PVP and PEG Matrixes: A Comparative Study.  
Journal of Applied Polymer Science, 2006; 102, 460-471.

- Feras Imad Kanaze, Melpomeni I. Bounartzi, Manolis Georgarakis, and Ioannis Niopas.  
Pharmacokinetics of the citrus flavanone aglycones hesperetin and naringenin after single oral administration in human subjects.  
Eur J. of Clinical Nutrition. 2007; 61; 472-477.
- F. I. Kanaze, E. Kokkalou, I. Niopas, P. Barmpalexis, M. Georgarakis, D. Bikiaris.  
Dissolution rate and stability study of flavanone aglycones, naringenin and hesperetin, by drug delivery systems based on polyvinylpyrrolidone (PVP) nanodispersions.  
Drug Development and Industrial Pharmacy, 2009; in press.
- F.I. Kanaze, E. Kokkalou, I. Niopas, M. Georgarakis, D. Bikiaris.  
POSTER WITH TITLE:  
Novel Drug Delivery Systems for Hesperitin and Naringenin based on molecular Dispersions with polyvinylpyrrolidone.  
International meeting on pharmaceuticals, bio-pharmaceuticals and pharmaceutical technology.  
Germany, Nuremberg; 2004; 15-18 march: 393-394.
- Bikiaris D, Karabas E, F.I. Kanaze, M. Georgarakis.  
POSTER WITH TITLE:  
Control release of pharmaceutical drugs by using PVP/CHITOSAN polymer mixtures".  
120 Panhellenic Pharmaceutical Congress. Greece-Athens; 2005; 14-16 may: PD 002.
- N.D. Bikiaris, G.Z. Papageorgiou, A.C. Stergiou, E. Pavlidou, E. Karavas, F.I. Kanaze, M. Georgarakis.  
Physicochemical Characterization of Solid Dispersions of Felodipine and Hesperetin with Low Drug Content.  
7th Mediterranean Conference on Calorimetry and Thermal Analysis; MEDICA Conference 2005; Thessaloniki 2-6 July, Greece. P172-176.
- Kanaze, F.I.; Kokkalou, E.; Niopas, I.; Georgarakis, M.; Stergiou, A.; Bikiaris, D.  
THERMAL ANALYSIS STUDY OF FLAVONOID SOLID DISPERSIONS HAVING ENHANCED SOLUBILITY.

J Therm Anal Cal 2006, 83, 283-290.

- Kimiskidis V, Spanakis M, Niopas I, Kazis D, Gabrieli C, Kanaze F.I, Daniil Divanoglou.  
Development and validation of a high performance liquid chromatographic method for the determination of oxcarbazepine and its main metabolites in human plasma and cerebrospinal fluid and its application to pharmacokinetic study.  
J Pharmaceutical and Biomedical Analysis, 2007; 43; 763-8.
- Papageorgiou G. Z., Bikiaris D., Kanaze F., Karavas E., Stergiou A. and Georgarakis E.  
Tailoring the Release Rates of Fluconazole Using Solid Dispersions in Polymer Blends.  
Drug development and industrial pharmacy. 2008; 34:336-346.
- Stavros Politis, Evangelos Karavas, Feras Qanaze, Manolis Georgarakis and Dimitrios Bikiaris.  
Sustained release formulations for Venlafaxine Hydrochloride.  
Pharmaceutical Sciences World Conference. Amsterdam The Netherlands 22-25 April, 2007.
- Firas I. Kanaze, Aikaterini Termentzi, Chrysi Gabrieli, Ioannis Niopas, Manolis Georgarakis, and Eugene Kokkalou.  
The Phytochemical Analysis and Antioxidant Activity Assessment of Orange Peels (*Citrus sinensis*) Cultivated in Greece-Crete Indicates a New Commercial Source of Hesperidin.  
Biomed Chromatogr. 2009 Mar; 23(3):239-49.
- S. Papadimitriou, G. Papageorgiou, M. Georgarakis, F. I. Kanaze, E. Karavas and D. Bikiaris.  
Nano-encapsulation of nimodipine in novel biocompatible poly(propylene-co-butylene succinate) copolyesters.  
6th World meeting on pharmaceuticals, biopharmaceuticals and pharmaceutical technology. Barcelona, Spain, Centre Convencions Internacional Barcelona, 7-10 April, 2008.
- Barmpalexis P, Kanaze FI, Georgarakis E.  
Developing and optimizing a validated isocratic reversed-phase high-performance liquid chromatography separation of nimodipine and impurities

in tablets using experimental design methodology.  
J Pharm Biomed Anal. 2009 Jul 12; 49(5):1192-202.

- Sofia Papadimitriou, George Z. Papageorgiou, Feras I. Kanaze, Manolis Georganakakis, Dimitris N. Bikiaris.  
Nanoencapsulation of Nimodipine in Novel Biocompatible Poly(propylene-co-butylene succinate) Aliphatic Copolyesters for Sustained Release.  
Journal of nanomaterials, Volume 2009, Article ID 716242, 11 pages,  
doi:10.1155/2009/716242.
- Tsermentseli, S. K.; Assimopoulou, A. N.; Gianovits-Argyriadou, N.; Kanaze, F. I.; Papageorgiou, V. P.  
Phytochemical analysis of *Anchusa arvensis* roots, 7th Joint Meeting of GA, AFERP, ASP, PSE & SIF, Natural Products with pharmaceutical, nutraceutical, cosmetic and agrochemical interest.  
Athens August 3-8 2008, Book of abstracts, *Planta Medica*, Issue 09, Volume 74, July 2008, p. 1098.
- Barmpalexis P, Kanaze FI, Kachrimanis K, Georganakakis E.  
Artificial neural networks in the optimization of a nimodipine controlled release tablet formulation.  
*Eur J Pharm Biopharm.* 2010 Feb;74 (2):316-23.
- Nanaki SG., Kanaze FI, Bikiaris DN.  
Development of a simple validated isocratic HPLC method for the assaying of desferrioxamine in nanoparticles based on poly( $\epsilon$ -caprolactone)-block-poly(propylene adipate) copolymers.  
*Global Journal of Analytical Chemistry.* 2011, Vol. 2, Issue 6 pp. 292-299.