

1. PERSONAL INFORMATION

LAST NAME QANAZE
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BIRTH DATE 24 APRIL 1976
PLACE OF BIRTH NABLUS
MARITAL STATUS MARRIED
GENDER MALE

2. ACADEMIC EDUCATION**2.1 HIGH EDUCATION**

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. Niopas 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-Njah National University, Nablus-Palestine. Graduation with a degree of 87.2 % (Excellent).

2.2 MEDIUM GENERAL EDUCATION

1993-1994 School of graduation Qadry Toqan, Nablus-Palestine with degree 93.7% (Excellent).

3. LANGUAGES

- Excellent knowledge of Greek language.
- Excellent knowledge of English language.
- Excellent knowledge of Arabic language.

4. COMPUTER SKILLS WITH VERY GOOD KNOWLEDGE

1. Windows program.
 2. Class-VP program of HPLC instrument.
 3. LC Solution program of HPLC instrument.
 4. Pyris (Perkin Elmer) and TA (Q200) program of DSC instrument.
 5. Excel program.
 6. Origin professional program.
 7. Design Expert program.
 8. Winchem program.
 9. Sigmastat program.
 10. SPSS program.
 11. Internet browsing.
 12. Microsoft office program.
 13. ChemDraw.
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5. OPERATION OF SCIENTIFIC INSTRUMENTS

- Analytic High Performance Liquid Chromatography, UV, Diode array and electrochemical detection (SSI, Waters, Varian, Shimadzu).
 - Liquid Chromatography Mass Spectroscopy Diode array Detection (Shimadzu).
 - Preparative High Performance Liquid Chromatography (SSI, Shimadzu).
 - Fourier Transfer I.R (Perkin-Elmer).
 - UV Spectroscopy (Perkin-Elmer, Shimadzu).
 - Differential Scanning Calorimeter (Perkin-Elmer Diamond, TA Q200).
 - Chromatographic techniques, Preparative and analytical.
 - Dissolution apparatus I and II (Distek, Pharmatest, Varian, Erweka).
 - Freeze dryer (Christ).
 - Tablet mini coater and drier (Caleva).
 - Fluid Bed-Labsystem GPCG 2 (Glatt), for Drying, Granulating, Pelletizing, powder and particle coating.
 - Erweka 402 AR multipurpose.
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6. CONFERENCES AND SEMINARS ATTENDED

1. 1st International Congress of Controlled Release Society-Greek Local Chapter. Small Molecules (Original-Generics) and Biotechnological Drugs (Biosimilars). "Computational-Experimental, Scientific-Regulatory Advances in Drug Discovery, Formulation Strategies, Drug Delivery, ADMET, PK-PD". Athens- Greece (27-28/05/2015).
2. Attendance in the workshop on Advances in scientific-regulatory issues in drug development and authorization processes, Athens-Greece. (29/05/2015).
3. Attendance in the seminar of Colorcon with a title: "colorcon innovation program", Athens-Greece. (01/10/2014).
4. Attendance in the seminar of Colorcon with a title: "solid dosage design", Athens-Greece. (12/05/2010).
5. Attendance in the seminar of BASF with a title: "Coating", Athens-Greece. (16/02/2010).
6. Attendance in the Conference "From drug delivery systems to drug release, dissolution, IVIVC, BCS, BDDCS, bioequivalence and biowavairs" Athens- Greece. (28/05/09-30/05/2009).

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7. Attendance in the 1st International Conference on Nanomedicine "Nanotechnology for Health" Chalkidiki-Thessaloniki, Greece. (09/09/07-11/09/2007).
8. Attendance in the seminar of Agilent Technologies with a title: "Discovery a new world of liquid chromatography and liquid chromatography mass spectroscopy", Thessaloniki-Greece. (01/11/2006-2/11/2006).
9. Attendance in the seminar of Malva-Waters with a title: "Recent Advances in HPLC Method Development; New Tools and Products", Thessaloniki-Greece. (11/06/2002).
10. Attendance in the 7th Conference of Applied Medicinal Chemistry. "Pathways of Drug Design and Discovery". Thessaloniki-Greece. (18/05/2001-19/05/2001).
11. Attendance with poster in the 2nd Pharmaceutical Conference at Al-Najah National University- Nablus-Palestine. (24/08/1998 – 27/08/1998).
12. Attendance with poster in the 1st Pharmaceutical Conference at Al-Najah National University- Nablus-Palestine. (24/08/1997 – 27/08/1997).

7. INTENSIVE EDUCATIONAL COURSES

1. Attendance in the seminar of Colorcon coating school with a title: Film coating formulations (enteric coating and extended release), Gallarate-Italy. (25-27/11/2009).
2. Attendance in the seminar of Pharma JRS with a title: New excipient technology, coating system, Athens-Greece. (29/5/2009).
3. Two day workshop entitled Metrology in chemistry, organized by Eurachem Education and training working group, by Dr Vicki Barwick, Dr Steve Ellison, Dr Marina Patriarka, Dr Elizabeth Prichard, Dr Alex Williams, Dr Rudiger Kaus, Dr Wolfhard Wegscheider, Dr Evangelos Bakeas and Dr Anna Stefanidou, Athens-Greece. (19-20/05/2008).
4. Intensive short course of BUREAU VERITAS CERTIFICATION, Internal Quality Management System (QMS) Auditor Training by Dr Alex Tzotopoulos, Athens-Greece. (18/12/2007).
5. Intensive short course of BUREAU VERITAS CERTIFICATION, ISO 9000: 2000 Series Foundation Training Course by Dr Alex Tzotopoulos Athens-Greece. (18/12/2007).
6. Intensive short course of LINK LAB-RESTEK Corporation, HPLC

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- Products with a title: Liquid Chromatography / Mass Spectrometry (LC/MS) Education Seminars by Dr Becky Wittrig, Athens-Greece. (21/09/2007).
7. Intensive short course of cGMP for pharmaceutical industries by Dr WILLIAM G. MARSHALL, Athens-Greece. (29-31/05/2007).
8. Intensive short course of Shimadzu, N. Asteriadis A.E. with a title: High Speed Liquid Chromatograph Mass Spectroscopy (LC-MS) and High Speed Liquid Chromatograph Mass Spectroscopy -Ion Trap- Time Of Flight (LC-MS-IT-TOF). Present and Future. Thessaloniki-Greece (20/04/2007).
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8. RESEARCH ACTIVITIES

- Conduction of Bioequivalence studies (Lab and clinical parts).
- 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.

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- 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:
 1. Solid Drug Formulations:
 - Immediate release.
 - Sustained release.
 2. Semisolid Drug Formulations:
 - Cream Preparations.
 - Ointment Preparations.
 - Gel Preparations.
 - Lotion Preparations.
 - Stability studies and shelf life prediction.
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9. WORK EXPERIENCE

1. Assistant Professor at Birzeit University, Pharmacy School. Teaching courses are: **Pharm. D Bachelor Program:** Pharmaceutics I and II, Introduction to Pharmacy and Pharmaceutical Calculations, Formulation Laboratory (Pharmacy Skill Laboratory), Industrial Pharmacy (Theoretical and Experimental), Different Pharm. D. Research Projects. **Industrial Pharmacy, Master Program:** Pharmaceutics I and II, Design & Development of Novel Drug Delivery Systems, Pharmaceutical Validation, Pharmaceutical Technology I and II (Theoretical and Experimental), Advanced Pharmaceutical Analytical Techniques (Theoretical and Experimental), Special Topics (Dry Powder Inhalers, DPI), Different Master Thesis Research Projects, (22/08/2016 - now).

2. Working as "Product Development Manager" at Pharmanel Pharmaceuticals S.A. (27/04/2015 - 01/08/2016).
 - Design and development of new generic pharmaceutical products.
 - Product development and approval process coordination.
 - R&D team supervision, working closely and interacting with all parts of the Production, Quality Control, Regulatory Affairs and Quality Assurance departments, as well as with external partners.
 - Training and education programs for the R&D team.
 - Evaluation of the new candidate products and scientific literature research.
 - Searching and evaluation of all related new product Patents using Thomson Reuters – Newport (Generic market intelligence) and Ark Patent Intelligence Databases.
 - Looking for the most appropriate suppliers for active pharmaceutical ingredients, excipients and other materials.

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- Setting out the strategy for pre-formulation & formulation studies.
 - Oversees the development, evaluation of analytical methods and the required stability studies for the under development products.
 - Supervision of the production and the scaling-up process optimization for the developed products, from the R&D stage to industrial scale (Tech Transfer).
 - Coordination for the required BE studies.
 - Compilation of 3.2.P.2 Part.
 - Collaboration with Regulatory Affairs Department for the answers of deficiency letters from Health Authorities concerning the development and bioequivalence modules, during the adoption of new generic products.
3. Working as “Supervisor of Drug Product Development” at Pharos Pharmaceutical Oriented Services. Formulation and analytical product development, Drug product and analytical technical transfer, production scaling up (feasibility and registration batches validation), Documentation, writing of Module 32P2 of drug product (16/05/2014-24/04/2015).
4. Assistant Professor at Al Najah University, Medicine and Health Sciences-Pharmacy School. Teaching courses are: Industrial Pharmacy, Pharmaceutical Quality control (Q.C.), Pharmaceutics, Pharmaceutical analysis (**Master program**), Instrumental Analysis, Analytical Chemistry, Pharmaceutical excipients and organic chemistry (20/01/2012-14/05/2014).
5. Working as “Head of Registration Department at Sama Pharmaceuticals and as Scientific Coordinator”. Registration

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department of Sama Pharmaceuticals (05/02/2012).

6. 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).
7. Work in KLEVA Pharmaceutical Company, as supervisor OF Formulation Department, lab-Pilot Scale Production (14/01/2009-22/03/2009).
8. 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.

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B. Politis S. N., Qanaze F.I., Karavas E., Skopelitis K.,
Manipulable sustained release pharmaceutical composition
for water soluble APIs. PHARMATHEN.

9. 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).
10. 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).
11. 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).
12. 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

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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).

13. 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).
 14. 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).
 15. Supervision of laboratorial exercises in the department of pharmacognosy-Pharmacology (program code 21079) (01/01/2004-31/12/2004).
 16. Dispensing drugs at a community pharmacy (01/03/1998-01/09/1998).
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10. PUBLICATIONS IN INTERNATIONAL JOURNALS AND CONFERENCES

1. **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.
2. **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.
3. **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.
4. **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.

5. 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.

6. 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.

7. 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.

8. **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.

9. **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.

10. **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; 36; 292-301.

11. **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 pharmaceutics, bio-pharmaceutics and pharmaceutical technology.

Germany, Nuremberg; 2004; 15-18 march: 393-394.

12. Bikiaris D, Karabas E, **F.I. Kanaze**, M. Georgarakis.

POSTER WITH TITLE:

Control release of pharmaceutical drugs by using PVP/CHITOSAN polymer mixtures”.

12^o Panhellenic Pharmaceutical Congress. Greece-Athens; 2005; 14-16 may: PD 002.

13. 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.

14. **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.

15. 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.

16. 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.

17. 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.

18. **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.
19. 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, biopharmaceutics and pharmaceutical technology. Barcelona, Spain, Centre Convencions Internacional Barcelona, 7-10 April, 2008.
20. 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.
21. Sofia Papadimitriou, George Z. Papageorgiou, **Feras I. Kanaze**, Manolis Georgarakis, 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.

22. 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.

23. Barmpalexis P, **Kanaze FI**, Kachrimanis K, Georgarakis E.

Artificial neural networks in the optimization of a nimodipine controlled release tablet formulation.

Eur J Pharm Biopharm. 2010 Feb;74 (2):316-23.

24. Nanaki SG., **Kanaze FI**, Bikiaris DN.

Development of a simple validated isocratic HPLC method for the assaying of desferrioxamine in nanoparticles based on poly(ϵ -caprolactone)-block-poly(propylene adipate) copolymers.

Global Journal of Analytical Chemistry. 2011, Vol. 2, Issue 6
pp. 292-299.

Qanaze F. I.

11. REFERENCES

- Prof. Manolis Georgarakis
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