

CURRICULUM VITAE

Ekaterini Alexiou Chatzaki

Professor

Personal Webpage: <http://pharmacology.med.duth.gr/staff/chatzaki.html>**EDUCATION /TRAINING**

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Kapodistiako University of Athens, Greece	BSc	1991	Biology
University of London, St. Bartholomew's and The Royal London School of Medicine and Dentistry, London, UK.	PhD	1996	Medicine
Medical School, Univ. Crete, Greece	Postdoctoral	1996-1998	Pharmacology
Neurocrine Biosciences Inc., La Jolla, CA, US	Industrial Postdoc	2002-2003	Pharmaceutical R&D

A. ACADEMIC AND PROFESSIONAL POSITIONS**POSITIONS HELD**

Sept. 17-present: Visiting Fellow, Institute of Molecular Biology and Biotechnology, Foundation of Research and Technology, Hellas.

2012-2017: Associate Professor, Laboratory of Pharmacology, Faculty of Medicine, Democritus University of Thrace

2007-2012: Assistant, Laboratory of Pharmacology, Faculty of Medicine, Democritus University of Thrace

2003-2007: Lecturer, Laboratory of Pharmacology, Faculty of Medicine, Democritus University of Thrace

1999-2001: Adjunct Professor, Laboratory of Pharmacology, Medical School, Univ. Crete

1992-1996: Medical Laboratory Scientific Officer, St. Bartholomew's and The Royal London School of Medicine and Dentistry, London, UK

1995: Researcher, MRC Centre for Reproductive Biology, Edinburgh, Scotland, UK

ADVISORY-ADMINISTRATIVE DUTIES

- Expert Evaluator and Rapporteur in H2020-PHC, Phase I and II, PHC-10, and Fast Track to Innovation, EIC-FTI Horizon 2018-2020.
- Evaluator in Programs of the Croatian Science Foundation, proposals for "HRAKLITOS II", "Practical Training in Universities" and "Practical Training in T.E.I." Greek Ministry of Education, Program "Karatheodoris", University of Patras, "Young Investigators", "Research-Innovation-Development" of the GSRT and others.
- Certifier for the Greek General Secretariat for Research and Technology (GSRT) for the Programs 'Excellence I and II'.
- President of the Scientific Ethics Committee of the General University Hospital of Alexandroupolis, of Democritus University of Thrace, since 2015.
- Member of the Scientific Committee of the General University Hospital of Alexandroupolis, of Democritus University of Thrace, since 2015.
- Contributing Associate Editor-in-Chief of World Journal of Gastroenterology
- Member of Editorial Board of Epigenetic Diagnosis & Therapy, World J Gastroenterology, World J. Gastrointestinal Oncology, World J. Pharmacology, Int. J Medicine, J Gastroenterology and Hepatology Res, Conference Papers in Molecular Biology and others.
- Member of the Scientific/Steering Committee of two Post-Graduate Programs of the Faculty of Medicine, DUTH.
- Advisor in 5 PhDs (1 completed) and member of >10 Advisory Committees, Supervisor of > 25 pre-graduate and >25 post-graduate students for their diploma dissertations.
- Member of Committee of InfraFrontier Services to Image-mouse models of European Strategy Forum for Research Infrastructures (ESFRI).
- Member of the Audit Committee of the Hellenic Society of Pharmacology.

- Member of the Committee for the scientific, technical and finance design of new Departments in DUTH.

B. RESEARCH INTERESTS

- Epigenetics/Pharmacoeugenetics
- Liquid biopsies, minimally invasive biomarkers
- Hormone-dependent and other malignancies: tumour markers, gene therapy, nano-technology in pharmacotherapy.
- Novel therapeutic targets in stress-related disorders based on stress and other neuropeptide mechanisms in human physiology and pathophysiology.
- Clinical studies for new anticancer schemes.
- Health and Safety in the use of hazardous drugs.

C. PUBLICATIONS

PUBLICATION OVERVIEW

- >90 scientific articles in international journals (PubMed), >1800 citations (Scopus), *H* Factor:27
- 26 scientific articles in national and other forums
- 3 monographs
- 14 chapters in books
- 4 course chapters

SELECTED PEER-REVIEWED PUBLICATIONS (in parenthesis journal IF, ISI)

Chatzaki E, Gallagher CJ, Iles RK, Nouri AME, Bax CMR, Grudzinskas JG (1994). Characterization of the differential expression of marker antigens by normal and malignant endometrial epithelium. *Br J Can*, 69, 1010-1014 (4,831).

Chatzaki E, Bax CRM, Eidne KA, Anderson L, Grudzinskas JG, Gallagher CJ (1996) The Expression of gonadotropin-releasing hormone (GnRH) and its receptor in endometrial cancer and its relevance as an autocrine growth factor. *Cancer Research*, 56, 2059-63 (8,234).

Bax CMR, Chatzaki E, Davies S, Gallagher CJ (1996) Elucidating the role of gonadotrophins in endometrial cancer cell growth. *Biochemical Society Transactions*, 24, 443S (3,989).

Chatzaki E, Margioris A, Makrigiannakis A, Castanas E, Georgoulas V, Gravanis A. (2000) Kappa-opioids and Transforming Growth Factor-beta 1 interact in human endometrial cells. *Mol Hum Reprod*, 6, 101-108 (3,506).

Dermitzaki E, Chatzaki E, Gravanis A, Margioris AN. (2000) Opioids transiently prevent activation of apoptotic mechanisms following short periods of serum withdrawal. *Journal of Neurochemistry*, 74, 960-969 (4,337).

Davies S, Bax CMR, Chatzaki E, Chard T, Iles RK (2000) Regulation of endometrial cancer cell growth by Luteinising Hormone (LH) and Follicle Stimulating Hormone (FSH). *British Journal of Cancer*. 83, 1730-1734 (4,831).

Chatzaki E, Margioris A, Gravanis A (2001) Expression and regulation of Corticotropin-Releasing Hormone Binding Protein (CRH-BP) in Rat Adrenals. *Journal of Neurochemistry*, 80, 81-90 (4,337)

Chatzaki E, Makrygiannakis A, Kouimtoglou E, Margioris A, Gravanis A (2001) The Fas/FasL apoptotic pathway is involved in the kappa-opioid-induced apoptosis of human endometrial stromal cells. *Mol Hum Reprod*, 7, 867 (3,506).

- Chatzaki E, Charalampopoulos I, Leontidis C, Tsardi M, Mouzas I, Tsatsanis C, Margioris AN, Gravanis A (2003). Urocortin in human gastric mucosa: Relationship to inflammatory activity. *J Clin Endocrinol Metab*, 88, 478-83 (6,495)
- Chatzaki E, Kouimtzoglou E, Margioris A, Gravanis A (2003). Transforming growth factor beta 1 exerts an autocrine regulatory effect on human endometrial stromal cell apoptosis, involving the FasL and Bcl-2 apoptotic pathways. *Mol Hum Reprod*, 9, 91-95 (3,506).
- Chatzaki E, Murphy B, Wang L, Million M, Ohning GV, Crowe P, Petroski R, Taché Y, Grigoriadis D (2004) Differential profile of CRF receptor distribution in the rat stomach and duodenum assessed by newly developed CRF receptor antibodies. *Journal of Neurochemistry*, 88(1), 1-11 (4,337)
- Chatzaki E Crowe P, Wang L, Million M, Taché Y, Grigoriadis D (2004) CRF Receptor type 1 and 2 expression and anatomical distribution in the rat colon. *Journal of Neurochemistry* 90, 309-316 (4,337)
- Chatzaki E, Euthimiadis C, Kyriaki S, Lambropoulou M, Tsarouxa A, Polychronidis A, Papadopoulos N, Simopoulos K. (2005) Urocortin and Corticotropin-Releasing Factor type 2 Receptor expression in the human gallbladder. *Neuroendocrinology*, 82, 177-184 (3,272)
- Chatzaki E, Lambropoulou M, Constantinidis TC, Papadopoulos N, Tache Y, Minopoulos G, Grigoriadis D (2006). Corticotropin-Releasing Factor (CRF) Receptor type 2 in the Human Stomach: protective biological role by inhibition of apoptosis. *Journal of Cellular Physiology* 209, 905-11 (3,986).
- Chatzaki E, Minas V, Zoumakis E, Makrigiannakis A (2006). CRF receptor antagonists. Utility in research and clinical practice. *Current Medicinal Chemistry*, 13, 2751-60 (4,630).
- Dermitzaki E, Tsatsanis C, Minas V, Chatzaki E, Charalampopoulos I, Venihaki M, Androulidaki A, Lambropoulou M, Spiess J, Michalodimitrakis E, Gravanis A, Margioris AN (2007) Corticotropin-releasing factor (CRF) and the urocortins differentially regulate catecholamine secretion in human and rat adrenals, in a CRF receptor type-specific manner. *Endocrinology* 148, 1524-38 (4,993)
- Stavroulaki M, Kardassis D, Chatzaki E, Sakellaris G, Lindschau C, Haller H, Tosca A, Krasagakis K (2008) Exposure of normal human melanocytes to a tumor promoting phorbol ester reverses growth suppression by transforming growth factor beta. *Journal of Cellular Physiology* 214(2), 363-70 (3,986).
- Simopoulos C, Christodoulou E, Lambropoulou M, Tsaroucha A, Kakolyris S, Polychronidis A, Karayiannakis A, Chatzaki E (2008) Neuropeptide Urocortin 1 and its receptors are expressed in the human liver. *Neuroend*, 89, 315-26 (3,272)
- A-32 Paschos K, Veletza S, Chatzaki E (2009) Neuropeptide and sigma receptors as novel therapeutic targets for the pharmacotherapy of depression. *CNS Drugs*, 23(9), 755-72 (4,497)
- Paschos KA, Kolios G, Chatzaki E (2009) The Corticotropin-Releasing Factor system in inflammatory bowel disease: prospects for new therapeutic approaches. *Drug Discovery Today*, 14 , 713-20 (6,433)
- Kaprara A, Pazaitou-Panayiotou K, Kortsaris A, Chatzaki E. (2010) The Corticotropin Releasing Factor System in Cancer: expression and pathophysiological implications. *Cellular and Molecular Life Sciences*, 67(8), 1293-306 (7,047)
- Paschos KA, Charsou C, Constantinidis TC, Anagnostoulis S, Lambropoulou M, Papachristou F, Simopoulos K, Chatzaki E (2010) Corticotropin Releasing Hormone receptors mediate opposing effects in cholestasis-induced liver cell apoptosis, *Endocrinology*, 151(4), 1704-12 (4,993)
- Zarogoulidis P, Chatzaki E, Porpodis K, Domvri K, Hohenforst WS, Goldberg EP, Karamanos N, Zarogoulidis K (2012) Inhaled Chemotherapy in Lung Cancer: A Future Concept of Nanomedicine Today. *Int J Nanomed*, 7:1551-72. (4,976)
- Domvri K, Zarogoulidis P, Porpodis K, Koffa M, Lambropoulou M, Kakolyris S, Kolios G, Chatzaki E. (2012) Gene therapy in liver diseases: state-of-the-art and future perspectives. *Current Gene Therapy*, 12(6):463-83 (4,902)
- Devetzi V, Zarogoulidis P, Kakolyris S, Vargemezis V, Chatzaki E. (2013) The Corticotropin Releasing Factor system in the kidney: perspectives for novel therapeutic intervention in nephrology. *Med Res Rev*, 33(4):847-72 (10,228)
- Balgkouranidou I, Karayiannakis A, Matthaios D, Bolanaki H, Tripsianis G, Tentes AA, Lianidou E, Chatzaki E, Fiska A,

Lambropoulou M, Kolios G, Kakolyris S. (2013) Assessment of SOX17 DNA methylation in cell free DNA from patients with gastric cancer. Association with prognostic variables and survival. Clin Chem Lab Med. 51:1505-10 (3,093).

Panagopoulou M, Lambropoulou M, Balgouranidou I, Nena E, Karaglani M, Nicolaidou C, Asimaki M, Agorastos T, Constantinidis Theoc, Constantinidis TC, Kolios G, Kakolyris S, Chatzaki E (2016) Gene promoter methylation and protein expression of BRMS1 in uterine cervix in relation to high-risk HPV infection and cancer, Tum Biol;39 (2,926).

Funded Research Projects

- 2002-2004 Investigator in the project «*TGF-1 and melanoma*» funded by the Ministry of Education (program PENED 2001), **PI Prof. K. Krassagakis**, Faculty of Medicine, University of Crete, 50000€.
- 2002-2003 Investigator in the project «*Selective CRF Antagonists for Bowel Disorders*» funded by the Department of Health and Human Services, USA (Small Business Innovation Research Program), **PI Dr. D. Grigoriadis**, Neurocrine Bioscience Inc, La Jolla, CA in collaboration with the University College of Los Angeles (UCLA), 200000\$.
- 2004-2006 Principle Investigator in the project “*The role of Corticotropin Releasing Factor (CRF) in the pathophysiology of Gastrointestinal and Reproductive Systems*”, funded by the Ministry of Education (program PYTHAGORAS I: Strengthening of Research teams in Universities) Faculty of Medicine, DUTH, 50000€.
- 2005-2007 Supervisor in the project “*Correlation study between arylamine N-acetyltransferase type I (NAT1) and breast cancer*” funded by the State Scholarship Foundation (program for Post-doctoral Research in Greece, Dept. Molecular Biology and Genetics, DUTH, 25000€.
- 2005-2007 Investigator in the project “*Establishment of a collaboration framework for training, research and education for Public Health and Hygiene and Safety at workplaces in the cross-border region of Greece-Bulgaria*”, **PI Prof. TC Conctantinidis**, funded by the EEC (program INTERREG IIIA/PHARE CBC), Faculty of Medicine, DUTH, 350000€.
- 2006-2007 Investigator in the project “*Epidemiological study for collection and evaluation of demographic data of epilepsy patients in Greece*”, **PI Prof. TC Conctantinidis**, funded by Janssen-Cilag Pharmaceuticals Faculty of Medicine, DUTH, 300000€.
- 2006-2007 Investigator in the project “*Epidemiological study for collection and evaluation of demographic data of migraine patients in Greece*”, **PI Prof. TC Conctantinidis**, funded by Janssen-Cilag Pharmaceuticals Faculty of Medicine, DUTH, 360000€.
- 2006-2008: Work Package Scientific Leader in the project «*IntraMEDnet - A Mediterranean Research and Higher Education Intranet in Medical and Biological Sciences*», **PI Prof V. Vargremezis**, funded by the EEC (program ARCHIMED – Interreg III, Strand B, ERDF) , Faculty of Medicine, DUTH, total budget: 1176890 €, DUTH budget: 163455 €.
- 2006-2007 Investigator in the project “*The role of β -catenin and HURP in hepatic carcinogenesis*”, **PI Dr. M Koffa**, funded by the General Secretariat of Research and Technology (Program ‘Competiveness’ common Research and Technology Programs Greece-Turkey, Department of Molecular Biology and Genetics, DUTH, 11000€.
- 2008-2010 Trainer in the Scientific filed 12 «*Risk assessment of working positions in Health Services*» of the project “*Development of human resources for Public Health*” , **PI Prof. I. Kyriopoulos**, funded by the General Secretariat of Research and Technology (measure 5.2 «Society of information»), National School of Public Health, 150000€.
- 2010-2013 Principle Investigator in the project “*The system of Corticotropin Releasing Factor (CRF) in embryonic development*” funded by the Ministry of Education (program HRAKLITOS II: Strengthening of human resources by implementation of doctorate research), Faculty of Medicine, DUTH, 43000€.
- 2011-2013 Investigator in the project “*Development of innovative nanocarriers of ixabepilon and study for their application in the treatment of breast cancer*”, **PI Dr. M Koffa**, funded by the General Secretariat of Research and Technology (program COOPERATION «Cooperative projects of small and medium impact”, Department of Molecular Biology and Genetics, DUTH budget 150000€, total budget 1000000€.
- 2012-2014 Principle Investigator in the project “*Harmful effects from the use of plant protective products: specialized biomarkers in the service of Public Health and information campaign*” funded by the Ministry of Health/ (program “Development of Human Resources 2007-2013, protection of Public Health of the

population”), Faculty of Medicine, DUTH, 370000€.

2012-2014 **Principle Investigator** in the project ‘European Territorial Co-operation’ (INTERREG IV ‘Greece-Bulgaria 2007-2013’) funded by the EEC, titled «*Cross border epidemiology of sexually transmitted viral infections in the female populations: molecular diagnostic approaches*», Faculty of Medicine, DUTH, 700000€.

2013 **Principle Investigator** in the project ‘BioEpi: Characterization of epigenetic biomarkers” by Novartis Hellas and other companies, Faculty of Medicine, DUTH, 8000€.

2017 **Partner** in the project ‘Epigenetics in Type II Diabetes: identification and validation of non-invasive biomarkers of disease progress’ PI Prof. G. Mastorakos, funded by the Hellenic Endocrine Society, 5000€

2017 **Supervisor** in the project ‘Study of the prognostic and predicted potential of epigenetic biomarkers in gynaecological malignancies’, scholarship to Maria Panagopoulou funded by the State Scholarships Foundation, 17600€

Prizes/ Awards

2002: Best Presentation Award in the Internal Panel of Evaluation, Neurocrine Bioscience Inc.

2002: Donation of laboratory equipment form Neurocrine Bioscience Inc., La Jolla, CA, to the Laboratory of Pharmacology, DUTH.

2004: Best Presentation Award in the 56th Meeting of Hellenic Society of Biochemistry and Molecular Biology, Larissa.

2005: Poster of Distinction, American Gastroenterology Association AGA DDW 2005, Illinois.

2005: Chatzaki et al. Top 10 of the articles published in the field, BioMedLib.

2006: Chatzaki et al. Top 10 of the articles published in the field, BioMedLib.

2006: Charalambopoulos et al F1000 (Faculty of 1000, 2% best published articles of the year in Medicine and Biology).

2007: Dermitzaki et al. Top 10 of the articles published in the field, BioMedLib.

2008: Best Presentation Award , 5th Panhellenic Congress of Pharmacology, Athens.

2009: Best Presentation Award, 15th Panhellenic Medical Student Congress, Thessaloniki.

2010: Lambropoulou et al. Top 10 of the articles published in the field, BioMedLib.

2011: Zarogoulidis et al F1000

2013: Best Presentation Award, 7th Meeting of the German-Greek Society Obstetrics and Gynecology, Corfu.

2013: Best Presentation Award, 63th Congress of the Hellenic Society of Biochemistry and Molecular Biology, Heraklio.

2014: Best Presentation Award , 14th Panellenic Congress of Pathology, Athens.

2016: Best Presentation Award , 4th International Conference On Advances in Applied Science and Environmental Technology - ASET 2016, Bangkok, Thailand.

2016: Distinction of Poster Presentation 9th Panhellenic Congress of Basic and Clinical Pharmacology, Thessaloniki, May 2016

2017: Price for Best Oral Presentation, 15th Congress of the Hellenic Diabetes Society, Athens

2018: 2nd Price for Best Research Presentation, 8th HPV Conference, Thessaloniki

Organization of international conferences

President of the Organizing Committee

- International Conference on ‘Sexually Transmitted Viral Infections: Current Diagnostic and Therapeutic Approaches’ , Alexandroupolis, 15-17 November, 2013.
- Public Awareness Day ‘Sexually Transmitted Infections: Information/Prevention’ , Alex/lis.
- Workshops on “Molecular Diagnosis of Sexually Transmitted Viral Infections” , Alex/lis, 2013.
- Conference on “Communication Skills in Biomedicine”, Alexandroupolis, 28 June, 2014
- Conference on “Pesticides: Use and Health”, Alexandroupolis, 5 June, 2015.
- Seminars on “Pesticides: Use and Health”, Evros, February, 2015.
- 2nd Congress of Pharmacoepidemiology, Alexandroupolis, May 2017 (vice-president).

Member of Scientific Committee

- 11th Scientific Congress of Medical Students, Alexandroupoli, 2005.
- 2nd Panhellenic Congress in Hygiene and Safety in the Health Section Alexandroupolis, 2009.
- 1st Pulmonology Symposium, Alexandroupoli, March 2012
- Current Issues in Oncology, May 2016, Thessaloniki, Greece
- 1st Congress of Pharmacoepidemiology, Alexandroupolis, February 2016
- Congress of Clinical and Translational Oncology, November 2017, Heraklio, Crete

Member of Organizing Committee

- International NAT Workshop, Alexandroupoli, October 2009
- European Association of Clinical Pharmacology and Therapeutics ‘Summer School’, Alexandroupoli, September 2009
- Current Topics in Oncology, Alexandroupoli, April 2010
- 61th Panhellenic Congress of the Hellenic Society of Biochemistry and Molecular Biology, Alexandroupoli, October 2010
- 1nd Hellenic Congress in Oncology, July 2011, Alexandroupoli, Greece
- 2nd Oncology Congress, Alexandroupoli, May 2012
- 3rd Hellenic Congress in Oncology, July 2013, Alexandroupoli, Greece

Member of Award Committee

- Public Health and Health Care in Greece and Bulgaria, Alexandroupoli, June 2009.
- BRSI International Conference on Current Trends in Biotechnology ICCB, Vellore, India, December 2016

Chair and organization of numerous sessions and round tables in congresses.

Member of Scientific Societies

- British Association for Cancer Research (BACR), since 1994,
- European Association for Cancer Research (EACR), since 1995,
- Greek Society of Pharmacology (EPHAR και IUPHAR) since 1998, member of Supervising Committee 2005-2007 and 2007-2009, 2014-today
- Hellenic Society of Biochemistry and Molecular Biology, since 1998.
- Hellenic Society of Neuroscience, since 2008.
- Hellenic Society of Bioimaging and founding member, since 2010.
- Institute of Stress Medicine and Biology, since 2016.
- European Society of Pharmacogenomics and Personalised Therapy, since 2017