

**PART I:****General Information**

**Name:** Maria Venihaki

**Office address:** Lab. of Clinical Chemistry  
Medical School, University of Crete,  
Voutes, Heraklion, Crete,  
71003, Greece

**Email:** [venihaki@med.uoc.gr](mailto:venihaki@med.uoc.gr)

**Place of birth:** Heraklion, Crete, Greece

**Marital Status:** Married with 2 children

**Education:**

1991: Bachelor of Science in Pharmacy, School of Health Sciences, Aristotelian University of Thessaloniki

1992: Courses on Advanced Laboratory Technology, School of Medicine, University of Crete

1996: Graduate program (PhD) in Clinical Chemistry, School of Medicine, University of Crete

**Postdoctoral Training:**

1997-July 1999: Research fellow in Endocrinology, Children's Hospital, Harvard Medical School, Boston, MA

**Academic Appointment:**

1997- July 1999: Research Fellow in Pediatrics, Harvard Medical School, Boston, MA

July 1999-2002: Instructor in Pediatrics, Harvard Medical School, Boston, MA

2003- Sept 2005 Instructor in Developmental Biology, IIBEAA, Athens

Oct 2005-May 2008: Research Scientist, PD407, Laboratory of Clinical chemistry, UOC, Crete

May 2008-present: Assistant Professor in Clinical Chemistry, Medical School, University of Crete

July 2008-present: Staff member of the clinical laboratory of Clinical Chemistry, University General Hospital of Heraklion

**Professional Society Involvement:**

1997-present: Endocrine Society, Full Member

1998-present: American Neuroendocrine Society, Member

2004-present: EEMBB, Member

2010- Society of Clinical Chemistry

### **Awards:**

- 1996: Ikkos Award of the Greek Endocrine Society for the best endocrine paper produced in Greece and published in an international journal.
- 2001: Mara Lieberman Travel Grant Award of the American Endocrine Society for the abstract titled: "Altered hypothalamic-pituitary-adrenal (HPA) axis regulation in tumour necrosis factor alpha (TNF $\alpha$ )-deficient mice."
- 2002: Travel Grant Award of the American Endocrine Society for the abstract titled: "A role for CRH in cutaneous wound healing."
- 2010: Award of the Greek society of Pharmacology for the best presented abstract entitled "Inhibition of the inflammatory response of activated microglia by a novel 17 spiro analog of neurosteroid dehydroepiandrosterone".

### **Member in Graduate Programs:**

2007-present: Graduate program in "Cellular and Genetic Etiology, Diagnosis and Treatment of Human Disease" of the Medical School, University of Crete

2008-present: Interdepartmental Graduate Programme in the BRAIN and MIND sciences, University of Crete

2010-present: Graduate program in "Neurosciences" of the Medical School, University of Crete

### **PART II:**

#### **Research Interests:**

My research focuses on the role of CRH (a) in fetal and postnatal development and (b) in the physiological responses during inflammation. More specifically I use the CRH knockout mice developed in our laboratory to study

- (i) The role of glucocorticoid and CRH in fetal lung development,
- (ii) The development of the HPA axis in fetal and neonatal life and the effect of circadian rhythmicity onset, in adrenal gland maturation and adequate stress response,
- (iii) The role of CRH as a proinflammatory factor in modulating cytokine expression, tissue vascularization and wound healing,
- (iv) The role of CRH and CRH-related peptides in stress-induced behaviours.

#### **Report of Grants:**

1: RO1, NIH/NIHCD

Project: The role of glucocorticoids in pulmonary maturation (Terminated)

PI: Joseph A Majzoub

Role: Investigator

2: NARSAD Young Investigator Award

Title: The role of CRH-related peptides in stress-induced behaviors and anxiety (Terminated)

PI: Maria Venihaki

3: PENED, GSRT

Title: Role of CRH in angiogenesis and wound healing (Active)

PI: Katia Karalis

Role: Investigator

4: KESY, Ministry of Health

Title: Elucidation of the structure and function of type I CRF receptor for designing selective drugs for diagnosis and treatment of tumors expressing this receptor (Active)

PI: George Liapakis

Role: Investigator

5: Hrakleitos II, Ministry of Education

Title: Inflammation-induced analgesia: Role of stress neuropeptides (Active)

PI: Maria Venihaki

6: ELKE: Institutional Support (start up)

Title: Role of CRH in peripheral analgesia (Active)

PI: Maria Venihaki

7: ELKE: Institutional Support (consumables)

Title: Role of Adipose Derived Stem Cells (ADSCs) in Wound Healing Of Lean and Obese mice (Active)

PI: Maria Venihaki

### **Report of teaching**

1995- 96: University of Crete, Medical School, Clinical Chemistry, Teaching Assistant

1999-2005: Training of Ph.D students and post-doctoral fellows, Children's Hospital, Boston MA and IIBEAA, Athens Greece

2005-present: Participation in the teaching of the course of Laboratory Medicine, Medical School, UOC

October 2006-present: Participation in the teaching of the course of Neuroendocrinology in the Graduate program "Brain and Mind"

March 2009: Participation in the teaching of the course of Pathophysiology in the graduate program "Cellular and Genetic Etiology, Diagnosis and Treatment of Human Disease"

### **PART III:**

#### **Publications:**

#### **Original articles:**

(1) **Venihaki M**, Gravanis A, Margioris AN. Opioids inhibit dopamine secretion from PC12 rat pheochromocytoma cells in a naloxone-reversible manner. Life Sciences, 58:75-82, 1995.

- (2) **Venihaki M**, Gravanis A, Margioris AN. Kappa opioids exert a strong antiproliferative effect on PC12 rat pheochromocytoma cells. *Peptides*, 17(3): 413-419, 1996.
- (3) **Venihaki M**, Gravanis A, Margioris AN. Comparative study between normal rat chromaffin and PC12 rat pheochromocytoma cells: Production and effects of Corticotropin-Releasing Hormone. *Endocrinology*, 138(2): 698-704, 1997.
- (4) **Venihaki M**, Ain K, Dermitzaki E, Gravanis A, Margioris AN. KAT45, a noradrenergic human pheochromocytoma cell line producing corticotropin-releasing hormone. *Endocrinology* 139(2): 713-22, 1998.
- (5) **Venihaki M**, Carrigan A, Dikkes P, Majzoub JA. Circadian rise in maternal glucocorticoid prevents pulmonary dysplasia in fetal mice with adrenal insufficiency. *Proc Natl Acad Sci U S A*.97(13):7336-41, 2000.
- (6) Huang SA, Tu HM, Harney JW, **Venihaki M**, Butte AJ, Kozakewich HP, Fishman SJ, Larsen PR. Severe hypothyroidism caused by type 3 iodothyronine deiodinase in infantile hemangiomas. *N Engl J Med*. 343(3):185-9, 2000.
- (7) Dermitzaki E, Gravanis A, **Venihaki M**, Stournaras C, Margioris AN. Opioids suppress basal and nicotine-induced catecholamine secretion via a stabilizing effect on actin filaments. *Endocrinology*. 142(5): 2022-31, 2001.
- (8) **Venihaki M**, Dikkes P, Carrigan A, and Karalis K.P. Corticotropin-releasing hormone regulates IL-6 expression during inflammation. *J. Clin. Invest*. 108:1159–1166, 2001.
- (9) Wilk M, Wang CC, **Venihaki M**, Liu J, Zhao D, Anton PM, Mykoniatis A, Pan A, Zacks J, Karalis K, Pothoulakis C. Corticotropin-releasing hormone antagonists possess anti-inflammatory effects in the mouse ileum. *Gastroenterology*: 123(2):505-15, 2002.
- (10) Mykoniatis A, Anton PM, Wilk M, Wang CC, Ungsunan L, Bluher S, **Venihaki M**, Simeonidis S, Zacks J, Zhao D, Sougioultzis S, Karalis K, Mantzoros C, Pothoulakis C. Leptin mediates *Clostridium difficile* toxin A-induced enteritis in mice. *Gastroenterology*: 124(3):683-91, 2003.
- (11) **Venihaki M**, Zhao J, and Karalis KP. Corticotropin-releasing hormone deficiency results in impaired splenocyte response to lipopolysaccharide. *J Neuroimmunol*. 141(1-2): 3-9, 2003.
- (12) Karalis KP, **Venihaki M\***, Zhao J\*, vanVlerken LE, Chandras C *equally contributed authors*. NF-kappaB participates in the corticotropin-releasing, hormone-induced regulation of the pituitary proopiomelanocortin gene. *J Biol Chem*. 279(12):10837-40, 2004.
- (13) **Venihaki M**, Sakihara S, Subramanian S, Dikkes P, Weninger SC, Liapakis G, Graf T, Majzoub JA. Urocortin III, a brain neuropeptide of the corticotropin-releasing hormone family: modulation by stress and attenuation of some anxiety-like behaviours. *J Neuroendocrinol*. 16(5): 411-22, 2004.

(14) Silva D<sup>#</sup>, **Venihaki M<sup>#</sup>**, Guo WH, and Lopez MF. *#Equally contributed authors*. Igf2 Deficiency Results in Delayed Lung Development at The End of Gestation. *Endocrinology*, 147(12): 5584-91, 2006.

(15) Dermitzaki E, Tsatsanis C, Minas V, Chatzaki E, Charalampopoulos I, **Venihaki M**, Androulidaki A, Lambropoulou M, Spiess J, Michalodimitrakis E, Gravanis A, Margioris AN. 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(4): 1524-38, 2007.

(16) Arditi JD, **Venihaki M**, Karalis KP, Chrousos GP. Antiproliferative effect of adiponectin on MCF7 breast cancer cells: a potential hormonal link between obesity and cancer. *Horm Metab Res.*, 39(1): 9-13, 2007.

(17) Gkountelias K, Tselios T, **Venihaki M**, Deraos G, Lazaridis I, Rassouli O, Gravanis A, Liapakis G. Alanine scanning mutagenesis of the second extracellular loop of type 1 corticotropin-releasing factor receptor revealed residues critical for peptide binding. *Mol Pharmacol.* 2009 Apr; 75(4):793-800.

(18) Androulidaki A, Dermitzaki E, **Venihaki M**, Karagianni E, Rassouli O, Andreakou E, Stournaras C, Margioris AN, Tsatsanis C. Corticotropin Releasing Factor promotes breast cancer cell motility and invasiveness. *Mol Cancer.* 2009 Jun 2;8:30.

(19) Rassouli O, Gravanis A, Margioris AN, Karalis KP and **Venihaki M**. Corticotropin-releasing hormone (Crh) deficiency accelerates dermal fibroblast proliferation; role of interleukin IL-6. Under review.

(20) **Venihaki M**, Rassouli O and Katia P. Karalis. Altered cutaneous wound healing in Crh-/- mice: Role of Interleukin-6. Submitted.

(21) Mavridou S, **Venihaki M**, Rassouli O, Tsatsanis C and Dimitris Kardassis. Feedback inhibition of human Scavenger Receptor class B type I gene expression by glucocorticoid in adrenal and ovarian cells. *Endocrinology.* 2010 Jul;151(7):3214-24.

(22) Arranz A, Venihaki M, Mol B, Androulidaki A, Dermitzaki E, Rassouli O, Ripoll J, Stathopoulos EN, Gomariz RP, Margioris AN, Tsatsanis C. The impact of stress on tumor growth: peripheral CRF mediates tumor-promoting effects of stress. *Mol Cancer.* 2010 Sep 27;9:261.

### Conference Proceedings

(1) Margioris AN, **Venihaki M**, Stournaras C, Gravanis, A. PC12 cells as a model to study the effects of opioids on normal and tumoral adrenal chromaffin cells. *Annals of the New York Academy of Sciences*, 771:166-173, 1995.

(2) **Venihaki M**, Gravanis A, Margioris AN. KAT45 human pheochromocytoma cell line. A new model for the in vitro study of neuro-immuno-hormonal interactions. *Annals of the New York Academy of Sciences* 840: 425-33, 1998

## Reviews:

- (1) **Venihaki M**, Majzoub JA. Animal models of CRH deficiency. *Frontiers in Neuroendocrinology* 20(2): 122-145, 1999
- (2) **Venihaki M**, Muglia L, Majzoub J.A. Corticotropin-releasing hormone and the lung. In: *Endocrinology of the lung*, ed. Mendelson C, Humana Press
- (3) Margioris AN, Dermitzaki E, **Venihaki M** and Gravanis A. Interleukin (IL)-1 family of cytokines and corticotropin-releasing hormone (CRH) in the adrenal gland. In: *Adrenal Disorders*, ed. Margioris AN and Chrousos GP, Humana Press, 2001.
- (4) **Venihaki M** and Majzoub JA. Lessons from CRH knockout mice. *Neuropeptides*: 36 (2-3): 96-102, 2002.
- (5) Tsatsanis C., Androulidaki A., **Venihaki M.**, Dermitzaki E., Margioris AN. Signaling networks regulating COX-2. *Int. J. Biochem. Cell. Biol.*, 38(10): 1654-61, 2006.
- (6) Tsatsanis C, Dermitzaki E, **Venihaki M**, Chatzaki E, Minas V, Gravanis A, Margioris AN. The corticotropin-releasing factor (CRF) family of peptides as local modulators of adrenal function. *Cell Mol Life Sci.* 64(13): 1638-55, 2007.
- (7) K.P. Karalis, T. Teli, M.Venihaki "Corticotropin Releasing Factor and Urocortins as mediators of local inflammation", special issue *Brain immunology*, editor I. Enevlev, 2009.

## Seminars-Talks

June 2001: Corticotropin-Releasing Hormone (CRH) regulates leptin during immune activation. The 83<sup>rd</sup> Annual Endocrine Society Meeting, Denver, Colorado

June 2001: Altered hypothalamic-pituitary-adrenal (HPA) axis regulation in tumor necrosis factor alpha (TNF $\alpha$ )-deficient mice. The 83<sup>rd</sup> annual Endocrine Society Meeting, Denver, Colorado.

September 2001: Role of CRH and CRH-related peptides during stress. Medical School, University of Crete.

November 2001: Corticotropin-releasing hormone regulates IL-6 expression during inflammation. Division of Gastroenterology, BIDC Hospital.

February 2002: Corticotropin-releasing factor family and stress. Division of Gastroenterology, BIDC Hospital.

June 2002: A role for Corticotropin-Releasing Hormone (CRH) in wound healing. The 84th Annual Endocrine Society Meeting, San Francisco, California.

September 2007: Cutaneous Wound Healing. Retreat of the Graduate Program "Cellular and Genetic Etiology, Diagnosis and Treatment of Human Disease", Crete

### **Abstracts (of a total of 50)**

(1) Makrigiannakis A, Markogiannakis M, **Venihaki** M, Skoula A, Gravanis A, Margioris AN. The prodynorphin gene is expressed in the Ishikawa human endometrial cell line. The Ninth International Congress of Endocrinology, Nice, France, 1992.

(2) **Venihaki** M, Makrigianakis A, Gravanis A, Margioris AN. Dopamine secretion from the PC12 pheochromocytoma cell line is decreased by opioids. The 75th Annual Endocrine Society Meeting, USA, #551, 1993.

(3) **Venihaki** M, Gravanis A, Margioris AN. Endogenous kappa opioids affect the proliferation of PC12 rat pheochromocytoma cells. The 76th Annual Endocrine Society Meeting, USA, #1621, pp 606, 1994.

(4) **Venihaki** M, Gravanis A, Margioris AN. Opioids may play a role in the proliferation of pheochromocytoma cells. IIIrd European Congress of Endocrinology, Amsterdam, Holland, #1.060, 1994.

(5) **Venihaki** M, Gravanis A, Margioris AN. The corticotropin-releasing hormone exerts a paracrine stimulatory effect on dopamine secretion from PC12 rat pheochromocytoma cells. The 77th Annual Endocrine Society Meeting, USA, # P3-579, pp 613, 1995.

(6) **Venihaki** M, K. Ain, Gravanis A, Margioris AN. Production and paracrine effects of corticotropin-releasing hormone on a human pheochromocytoma cell line. 10th International Congress of Endocrinology San Francisco, 1996 (Προφορική παρουσίαση).

(7) **Venihaki** M, Ain K, Gravanis A, Margioris AN. Human pheochromocytoma KAT-45 cells produce interleukin-1b which stimulates their production of catecholamines and corticotropin-releasing hormone (CRH).10th International Congress of Endocrinology San Francisco, #P2-893, pp 74, 1996.

(8) **Venihaki** M, Gravanis A, Margioris AN. KAT45, A new human pheochromocytoma cell line, produces interleukin (IL)-1b which exerts multiple paracrine effects. 3rd International Congress for neuroimmunomodulation. Washigton 1996.

(9) **Venihaki** M, Gravanis A, Dermitzaki E, Margioris AN. Production of interleukin-6 by the KAT45 human pheochromocytoma cell line. The 79th Annual Endocrine Society Meeting, USA, # P3-293, pp 510, 1997.

(10) **Venihaki** M, Gravanis A, Margioris AN. Regulation of the proliferation of the new KAT45 human pheochromocytoma cell line. The 79th Annual Endocrine Society Meeting, USA, # P3-294, pp 510, 1997.

(11) **Venihaki** M, and Majzoub JA. Hypothalamus-pituitary-adrenal axis development in the CRH knockout fetal mice. The 80th Annual Endocrine Society Meeting, New Orleans, USA.

(12) **Venihaki** M, Majzoub JA, Ferrara JLM and Karalis KP. CRH deficiency causes impaired cytokine secretion in vitro. The 80th Annual Endocrine Society Meeting, New

Orleans, USA # P1-414.

(13) **Venihaki** M, Weninger SC, and Majzoub JA. Onset of circadian rhythmicity precedes adrenal stress responsiveness in neonatal mice. The 81<sup>st</sup> Annual Endocrine Society Meeting, San Diego, USA.

(14) **Venihaki** M, and Karalis K. Normal adrenal gland stimulation despite pituitary hyporesponsiveness in inflamed CRH knockout (KO) mice. The 81<sup>st</sup> Annual Endocrine Society Meeting, San Diego, USA.

(15) **Venihaki** M, Zhao J, Jackson A, and Karalis K. Inhibition of pituitary NF- $\kappa$ B by Corticotropin-releasing hormone (CRH): Potential role in the regulation of the stress response. The 82<sup>nd</sup> annual Endocrine Society Meeting, Toronto Canada

(15) **Venihaki** M, Rosenfeld MG and Majzoub JA. Lung Corticotropin-releasing hormone (CRH): An important regulator of the fetal hypothalamic-pituitary-adrenal (HPA) axis. The 82<sup>nd</sup> annual Endocrine Society Meeting, Toronto Canada

(16) Huang SA, Tu HM, Harney JW, **Venihaki** M, Butte AJ, Kozakewich HP, Fishman SJ, Larsen PR. A new cause of severe hypothyroidism: Rapid thyroid hormone inactivation by type 3 iodothyronine deiodinase (D3) expressed in infantile hemangiomas. The 82<sup>nd</sup> annual Endocrine Society Meeting, Toronto Canada

(17) Vlerken L, **Venihaki** M, and Karalis K.P. Vasopressin (AVP)-independent activation of the hypothalamic-pituitary-adrenal (HPA) axis of the corticotropin-releasing hormone-deficient (*Crh*<sup>-/-</sup>) mice during inflammation. The 83<sup>rd</sup> annual Endocrine Society Meeting, Denver, Colorado.

(18) **Venihaki** M and Karalis K.P. Corticotropin-Releasing Hormone (CRH) regulates leptin during immune activation. The 83<sup>rd</sup> annual Endocrine Society Meeting, Denver, Colorado. Selected for oral presentation

(19) **Venihaki** M, Kollias G, and Karalis K.P. Altered hypothalamic-pituitary-adrenal (HPA) axis regulation in tumor necrosis factor alpha (TNF $\alpha$ )-deficient mice. The 83<sup>rd</sup> annual Endocrine Society Meeting, Denver, Colorado. Selected for oral presentation

(20) **Venihaki** M and Karalis K.P. A Role for Corticotropin-Releasing Hormone (CRH) in cutaneous wound healing. The 84<sup>th</sup> annual Endocrine Society Meeting, San Francisco, CA. Selected for oral presentation

(21) **Venihaki** M, vanVlerken L, and Karalis K.P. Leptin regulation in tumor necrosis factor alpha (TNF $\alpha$ )-deficient mice. The 84<sup>th</sup> annual Endocrine Society Meeting, San Francisco, CA.

(22) Maria **Venihaki**, Satoru Sakihara, Pieter Dikkes, Srikanth Subramanian, George Liapakis, Thomas Graf and Joseph A Majzoub. Role of Ucn III in the regulation of the stress response. The 84<sup>th</sup> annual Endocrine Society Meeting, San Francisco, CA.

(23) Majzoub J.A., **Venihaki** M., Jeong K.H., Weninger S.C., Karalis K. CRH-related hypothalamic peptides: Endocrine, behavioural and autonomic effects.



(24) **Venihaki M.**, Weaver D., Majzoub J.A. Disruption of the clock gene results in impaired corticosterone response to stress. The 85<sup>th</sup> annual Endocrine Society Meeting, Philadelphia, PA.

(25) Arditi J., **Venihaki M.**, Karalis Kp., Chrousos GP. Anti-Proliferative Effect of Adiponectin on MCF7 cells: A Potential Direct Link between Obesity and Cancer. The 87<sup>th</sup> annual Endocrine Society Meeting, San Diego, CA. (35) Arditi J., **Venihaki M.**, Chrousos GP., Karalis KP. Decreased Adiponectin mRNA Expression in *Crh*<sup>-/-</sup> mice in Cutaneous Wound Healing. The 87<sup>th</sup> annual Endocrine Society Meeting, San Diego, CA.

(26) Dermitzaki E, Tsatsanis C, **Venihaki M**, Minas V, Androulidaki A, Charalampopoulos I, Gravanis A and Margioris AN. **Dermitzaki E**, Tsatsanis C, Venihaki M, Minas V, Androulidaki A, Charalampopoulos I, Gravanis A and Margioris AN (2005) Differential effects of Corticotropin-Releasing Factor receptor 1 (CRF<sub>1</sub>) and 2 (CRF<sub>2</sub>) in catecholamine secretion and production in adrenomedullary chromaffin cells. 57<sup>th</sup> Meeting of Hellenic Society of Biochemistry & Molecular Biology, Greece.

(27) Dermitzaki E, Tsatsanis C, **Venihaki M**, Minas V, Androulidaki A, Chatzaki A, Charalampopoulos I, Gravanis A and Margioris AN. Differential effects of Corticotropin-Releasing Factor receptor 1 (CRF<sub>1</sub>) and 2 (CRF<sub>2</sub>) in catecholamine secretion and production in adrenomedullary chromaffin cells. 88<sup>th</sup> Annual Meeting of Endocrine Society, USA, 2006.

(28) Tsatsanis C, Androulidaki A, **Venihaki M**, Dermitzaki E, Gravanis A and Margioris AN. Corticotropin Releasing Factor (CRF), Urocortin (UCN)1 and UCN2 exert an anti-inflammatory effect during the early phase of inflammation suppressing LPS-induced TNF- $\alpha$  release from macrophages via induction of COX-2 and PGE<sub>2</sub>. 88<sup>th</sup> Annual Meeting of Endocrine Society, USA, 2006.

(29) Zacharioudaki V, Tsatsanis C, Androulidaki A, **Dermitzaki E**, Charalampopoulos I, Minas V, Gravanis A. and Margioris AN (2005) Adiponectin is a strong pro-inflammatory agent in macrophages and promotes their tolerance to pro-inflammatory stimuli, including its own. 57<sup>th</sup> Meeting of Hellenic Society of Biochemistry & Molecular Biology, Greece.

(30) Dermitzaki E, Tsatsanis C, **Venihaki M**, Minas V, Androulidaki A, Gravanis A, Margioris AN. Corticotropin-releasing factor (CRF) and Urocortins affect catecholamines in a CRF receptor type-specific manner. 31<sup>st</sup> FEBS Congress, Istanbul, 2006.

(31) Dermitzaki E, Tsatsanis C, **Venihaki M**, Minas V, Androulidaki A, Chatzaki A, Charalampopoulos I, Gravanis A, Margioris AN. Differential effects of corticotropin-releasing factor receptor 1 (CRF1) and 2 (CRF2) in catecholamine secretion and production from adrenomedullary chromaffin cells. 12<sup>th</sup> Meeting of the European Neuroendocrine Association (ENEA), Greece, 2006.

(32) Tsatsanis C, Androulidaki A, **Venihaki M**, Dermitzaki E, Gravanis A, Margioris AN. Corticotropin Releasing Factor (CRF) and Urocortin (UCN)1 exert a biphasic effect on macrophages being anti-inflammatory at the early stages and pro-inflammatory during the late phase of the inflammatory response. 12<sup>th</sup> Meeting of the European

Neuroendocrine Association (ENEA), Greece, 2006.

(33) Dermitzaki E, Tsatsanis C, Androulidaki A, **Venihaki M**, Gravanis A and Margioris AN. CRF and the Urocortins activate NFAT and induce catecholamine production in PC12 cells. ECE, Budapest, 2007.

(34) E. Karagianni, A. Androulidaki, E. Dermitzaki, M. **Venihaki**, O. Rassouli, M. Spiliotaki, V. Zacharioudaki, C. Stournaras, A. Gravanis, C. Tsatsanis, A. N. Margioris. CORTICOTROPIN RELEASING FACTOR (CRF) AFFECTS BREAST CANCER CELL PROLIFERATION, APOPTOSIS AND INVASIVENESS. 59<sup>th</sup> National Conference of Biochemistry and Molecular Biology. December 7-9, 2007. Greece

(35) Arranz A, Androulidaki A, Rassouli O, Dermitzaki E, Ripoll J, **Venihaki M**, Margioris AN, Tsatsanis C (2008) The impact of stress on tumour growth; the significance of peripheral Corticotropin Releasing Factor. 5<sup>th</sup> Era of Hope Conference

(36) Rassouli O, Gravanis A, Margioris AN, Karalis KP and Maria **Venihaki** Corticotropin-releasing hormone (Crh) deficiency accelerates dermal fibroblast proliferation; role of interleukin IL-6. 91<sup>th</sup> Annual Meeting of Endocrine Society, USA, 2009.

(37) Avgoustinaki P, Dermitzaki E, **Venihaki M**, Tsatsanis C, Margioris AN (2010) IL-1R-associated kinase-M within the circulating monocytes/macrophages (M/M) is a useful marker of metabolic inflammation in obesity. 18<sup>th</sup> ECO.

(38) Ioanna Plati, Anastasia Fotaki, Andrew N. Margioris, and Maria Venihaki. Glutamine pretreatment alters cytokine levels in Corticotropin-Releasing Hormone- deficient (*Crh*<sup>-/-</sup>) mice during LPS-induced systemic inflammation. 6<sup>th</sup> Annual Meeting of the Greek Society of Pharmacology, 2010, Ηράκλειο.

(39) Sylvia Agathou, Iakovos Lazaridis, Ioannis Charalampopoulos, Maria Venihaki\* and Achille Gravanis\*(\*Equal contributors). Inhibition of the inflammatory response of activated microglia by a novel 17 spiro analog of neurosteroid dehydroepiandrosterone. 6<sup>th</sup> Annual Meeting of the Greek Society of Pharmacology, 2010, Ηράκλειο.

(40) Olga Rassouli, George Liapakis\*, Iakovos Lazaridis\*, George Sakellaris, Kostas Gkountelias, Achille Gravanis, Andrew N. Margioris, Katia P. Karalis and Maria Venihaki. (\*Equal contributors). A Novel Role of Endogenous Corticotropin-releasing hormone (*Crh*) on dermal Fibroblast Function. 6<sup>th</sup> Annual Meeting of the Greek Society of Pharmacology, 2010, Ηράκλειο.

## **Dissertation**

Venihaki M. In vitro effects of neuropeptides, including opioids, on rat and human pheochromocytomas. Medical School, University of Crete, 1996.