



MARIA VENIHAKI

**PROFESSOR OF CLINICAL CHEMISTRY
MEDICAL SCHOOL, UNIVERSITY OF CRETE**

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PERSONAL INFORMATION

SURNAME VENIHAKI

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DATE OF BIRTH APRIL 23RD 1969

PLACE OF RESIDENCE HERAKLION, CRETE, GREECE

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EDUCATION

- 01.1997-07.1999** Postdoctoral Training-Research fellow in Endocrinology, Children's Hospital, Harvard Medical School, Boston, MA
- 07.1991-12.1996** PhD in Medicine, Clinical Chemistry, Medical School, University of Crete (grade: 10.0)
- 10.1991-09.1992** Attending EKT Courses (Education on techniques of advanced laboratory technology)
- 09.1987-07.1991** BSc in Pharmacy, School of Health Sciences, Aristotelian University of Thessaloniki (grade: 8.03)

POSTDOCTORAL STUDIES AND SCIENTIFIC POSITIONS

- 05.2008-10.2018** Assistant Professor in Clinical Chemistry, Medical School, University of Crete
- 07.2008-present** Staff member of the Clinical laboratory of Clinical Chemistry, University General Hospital of Heraklion
- 10. 2005-05 2008** Research Scientist, PD407, Laboratory of Clinical chemistry, University of Crete
- 01.2003-12.2005** Visiting Professor, Division of Endocrinology, Children's Hospital, Harvard Medical School
- 01.2003-09.2005** Instructor in Developmental Biology, IIBEAA, Athens
- 07.1999-12.2002** Instructor in Pediatrics, Harvard Medical School, Boston, MA

01.1997-07.1999 Postdoctoral Training-Research fellow in Endocrinology, Children's Hospital, Harvard Medical School, Boston, MA

CURRENT POSITIONS

7.2024-present Professor in Clinical Chemistry, Medical School, University Of Crete

10.2018 – 7.2024 Associate Professor in Clinical Chemistry, Medical School, University of Crete

10.2018 – present Participation in the shifts of the Clinical Chemistry laboratory of the hospital

10.2016- present Responsible of the CFTR Molecular testing Department of the Clinical Chemistry Laboratory

FELLOWSHIPS and 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 tumor necrosis factor alpha (TNFa)-deficient mice."

2002 Endocrine Society Travel Grant Award for the abstract titled: "A role for corticotropin-releasing hormone in cutaneous wound healing."

2010 Award of the American Endocrine Society to support a summer student to perform research in my laboratory.

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".

2011 The article "A Novel Role of Peripheral Corticotropin-Releasing Hormone (CRH) on Dermal Fibroblasts" (PLoS One 2011), was selected and

evaluated by Yvette Taché, a Member of the Faculty of 1000 (F1000), which places our work in the library of the top 2% of published articles in biology and medicine.

- 2012** Young Investigator Award, 22nd European Tissue Repair Society Meeting, Athens, Greece for the abstract entitled: Glucocorticoid independent regulation of cutaneous wound healing by Corticotropin Releasing Hormone (CRH).
- 2012** Award of the Greek Society for Clinical Chemistry for the best presented abstract entitled: Expression of the members of the superfamily of TNF- α in mice with genetic deficiency of CRH during cutaneous wound healing.
- 2014** S. Pitouli's award (€ 1,500) from the Hellenic Endocrine Society for the best study entitled "Corticotrophin-releasing factor, CRF and the urocortins are potent regulators of the inflammatory phenotype of human visceral adipocytes"
- 2014** 1st award of the 41st Meeting of Hellenic Endocrine Society for the best abstract entitled "Effect of stress hormones in inflammatory pain" by E. Karagianni, O. Rassouli, E. Dermitzaki, A.N. Margioris, M. Venihaki.
- 2022** G. Tolis award (€ 1,500) from the Hellenic Endocrine Society for the best research paper in basic Science in Endocrinology entitled «Analgesic and Anti-Inflammatory Effects of the Synthetic Neurosteroid Analogue BNN27 during CFA-Induced Hyperalgesia».
- 2023** 1o Award (€ 1,500) from the Hellenic Endocrine Society for the best poster with title «Development of new GnRH analogues conjugated with mitoxantrone with cytotoxic effects».

PUBLICATIONS (MEDLINE)

(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) 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.

- (3) **Venihaki** M, Gravanis A, Margioris AN. Kappa opioids exert a strong antiproliferative effect on PC12 rat pheochromocytoma cells. *Peptides*, 17(3): 413-419, 1996.
- (4) **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.
- (5) **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.
- (6) **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.
- (7) **Venihaki** M, Majzoub JA. Animal models of CRH deficiency. *Frontiers in Neuroendocrinology* 20(2): 122-145, 1999.
- (8) **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.
- (9) 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.
- (10) 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.
- (11) **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.
- (12) Wlk 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.
- (13) **Venihaki** M and Majzoub JA. Lessons from CRH knockout mice. *Neuropeptides*: 36 (2-3): 96-102, 2002.
- (14) Mykoniatis A, Anton PM, Wlk M, Wang CC, Ungsuan 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.

(15) **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.

(16) 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.

(17) **Venihaki** M, Sakihara S, Subramanian S, Dikkes P, Weninger SC, Liapakis G, Graf T, and Majzoub JA. Urocortin III, a Brain Neuropeptide of the Corticotropin-Releasing Hormone Family, has Anxiolytic Properties. *Journal of Neuroendocrinology* 16: 411-422, 2004.

(18) Tsatsanis C, Androulidaki A, **Venihaki** M, Margioris AN. Signaling networks regulating cyclooxygenase-2. *Int J Biochem Cell Biol* 38(10): 1654-61, 2006.

(19) Silva D[#], **Venihaki** M[#], Guo WH, and Lopez MF. "Igf2 Deficiency Results in Delayed Lung Development at The End of Gestation. *Endocrinology.* *Endocrinology* 147(12): 5584-91, 2006

Equal contribution from author.

(20) Arditi JD, **Venihaki** M, Karalis KP and Chrousos GP. Anti-Proliferative Effect of Adiponectin on MCF7 Breast Cancer Cells: A Potential Hormonal Link between Obesity and Cancer. *Hormone and Metabolic Research:* 39(1): 9-13, 2007.

(21) Dermitzaki E, Tsatsanis C, Minas V, Chatzaki E, Charalampopoulos I, **Venihaki** M, Androulidaki A, Lambropoulou M, Spiess J, Michalodimitrakakis 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.

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- (26) Liapakis G, **Venihaki M**, Margioris A, Grigoriadis D, Gkountelias K. Members of CRF family and their receptors: from past to future. *Curr Med Chem*. 18(17):2583-600, 2011.
- (27) 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*. 27; 9:261, 2010.
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- (29) Alexaki VI, Pelekanou V, Notas G, **Venihaki M**, Kampa M, Dessirier V, Sabour-Alaoui S, Stathopoulos EN, Tsapis A, Castanas E. B-Cell Maturation Antigen (BCMA) Activation Exerts Specific Proinflammatory Effects in Normal Human Keratinocytes and Is Preferentially Expressed in Inflammatory Skin Pathologies. *Endocrinology*, 153(2):739-49, 2012.
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- (32) Anyfantakis D, Symvoulakis EK, Panagiotakos DB, Tsetis D, Castanas E, Shea S, **Venihaki M**, Lionis C. Impact of religiosity/spirituality on biological and preclinical markers related to cardiovascular disease. Results from the SPILI III study. *Hormones (Athens)*. Jul-Sep;12(3):386-96, 2013.
- (33) Avgoustinaki PD, Mitsopoulou E, Chlouverakis G, Triantafillou T, **Venihaki M**, Koukouli S, Margioris AN. Sex steroids and personality traits in the middle luteal phase of healthy normally menstruating young professional women. *Hormones (Athens)*. Jul-Sep;11(3):333-43, 2012.
- (34) Koundourakis NE, Androulakis NE, Malliaraki N, Tsatsanis C, **Venihaki M**, Margioris AN. Discrepancy between exercise performance, body composition, and sex

steroid response after a six-week detraining period in professional soccer players. PLoS One. Feb 19;9(2):e87803, 2014.

(35) Dermitzaki E, Liapakis G, Androulidaki A, **Venihaki** M, Melissas J, Tsatsanis C, Margioris AN. Corticotrophin-Releasing Factor (CRF) and the urocortins are potent regulators of the inflammatory phenotype of human and mouse white adipocytes and the differentiation of mouse 3T3L1 pre-adipocytes. PLoS One. May 16;9(5):e97060, 2014.

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(39) Karakosta P, Roumeliotaki T, Chalkiadaki G, Sarri K, Vassilaki M, **Venihaki** M, Malliaraki N, Kampa M, Castanas E, Kogevinas M, Mantzoros C, Chatzi L. Cord blood leptin levels in relation to child growth trajectories. Metabolism. Jun;65(6):874-82, 2016.

(40) Fitrolaki MD, Dimitriou H, **Venihaki** M, Katrinaki M, Ilia S, Briassoulis G. Increased extracellular heat shock protein 90 α in severe sepsis and SIRS associated with multiple organ failure and related to acute inflammatory-metabolic stress response in children. Medicine (Baltimore). Aug;95(35):e4651, 2016.

(41) Pediaditakis I, Efstathopoulos P, Prousis KC, Zervou M, Arévalo JC, Alexaki VI, Nikolettou V, Karagianni E, Potamitis C, Tavernarakis N, Chavakis T, Margioris AN, **Venihaki** M, Calogeropoulou T, Charalampopoulos I, Gravanis A. Selective and differential interactions of BNN27, a novel C17-spiroepoxy steroid derivative, with TrkA receptors, regulating neuronal survival and differentiation. Neuropharmacology. Dec;111:266-282, 2016.

(42) Markaki A, Grammatikopoulou MG, **Venihaki** M, Kyriazis J, Perakis K, Stylianou K. Associations of adiponectin and leptin levels with protein-energy wasting, in end stage renal disease patients. Endocrinol Nutr. Nov;63(9):449-457, 2016.

(43) Dermitzaki E, Avgoustinaki PD, Spyridaki EC, Simos P, Malliaraki N, **Venihaki** M, Tsatsanis C, Margioris AN. Adiponectin levels may help assess the clinical repercussions of obesity irrespective of body mass index. Hormones (Athens). Jul;16(3):271-281, 2017.

- (44) Liapakis G, Matsoukas MT, Karageorgos V, **Venihaki** M, Mavromoustakos T. Family B G protein-coupled receptors and their ligands: From structure to function. *Curr Med Chem.* 24(31):3323-3355, 2017.
- (45) Dermitzaki E, **Venihaki** M, Tsatsanis C, Gravanis A, Avgoustinaki PD, Liapakis G, Margioris AN. The Multi-faceted Profile of Corticotropin-releasing Factor (CRF) Family of Neuropeptides and of their Receptors on the Paracrine/Local Regulation of the Inflammatory Response. *Curr Mol Pharmacol.*;11(1):39-50, 2018.
- (46) Rassouli O, Liapakis G, **Venihaki** M. Role of Central and Peripheral CRH in Skin. *Curr Mol Pharmacol.* 11(1):72-80, 2018.
- (47) Karageorgos V, **Venihaki** M, Sakellaris S, Pardalos M, Kontakis G, Matsoukas MT, Gravanis A, Margioris A, Liapakis G. Hormones (Athens). Current understanding of the structure and function of family B GPCRs to design novel drugs. 17(1):45-59, 2018.
- (48) Koundourakis NE, Androulakis N, Dermitzaki E, **Venihaki** M, Margioris AN. Effect of a 6-week supervised detraining period on bone metabolism markers and their association with ergometrics and components of the hypothalamic-pituitary-gonadal (HPG) axis in professional male soccer players. *J Bone Miner Metab.* 37(3):512-519. 2019.
- (49) Vafeiadi M, Myridakis A, Roumeliotaki T, Margetaki K, Chalkiadaki G, Dermitzaki E, **Venihaki** M, Sarri K, Vassilaki M, Leventakou V, Stephanou EG, Kogevinas M, Chatzi L. Association of Early Life Exposure to Phthalates With Obesity and Cardiometabolic Traits in Childhood: Sex Specific Associations. *Front Public Health*; 6:327. 2018.
- (50) Kyriklaki A, Margetaki K, Kampouri M, Koutra K, Bitsios P, Chalkiadaki G, Dermitzaki E, **Venihaki** M, Sarri K, Anousaki D, Kogevinas M, Chatzi L. Association between high levels of inflammatory markers and cognitive outcomes at 4 years of age: The Rhea mother-child cohort study, Crete, Greece. *Cytokine.* 117:1-7. 2019.
- (51) Sakellaris S, Matsoukas MT, Karageorgos V, Poulaki S, Kuppast B, Margioris A, **Venihaki** M, Fahmy H, Liapakis G. Selective antagonism of CRF1 receptor by a substituted pyrimidine. *Hormones (Athens).* 18(2):215-221, 2019.
- (52) Liapakis G, Karageorgos V, Andreadelis I, Holz GG, Dermitzaki E, Kordopati GG, Stylos EK, Spyridaki K, Poulaki S, Ntountaniotis D, Sakellaris S, Vanioti M, Kostagianni A, Marousis KD, Leonis G, Kokotos G, **Venihaki** M, Spyroulias GA, Tselios T, Margioris A, Tzakos AG, Mavromoustakos T. Discovery of a stable tripeptide targeting the N-domain of CRF1 receptor. *Amino Acids.* 52(9):1337-1351, 2020.
- (53) Axarlis K, Daskalaki MG, Michailidou S, Androulaki N, Tsourekis A, Mouchtaropoulou E, Kolliniati O, Lapi I, Dermitzaki E, **Venihaki** M, Kousoulaki K, Argiriou A, Marsni ZE, Tsatsanis C. Diet Supplementation with Fish-Derived Extracts

Suppresses Diabetes and Modulates Intestinal Microbiome in a Murine Model of Diet-Induced Obesity. *Mar Drugs*. 11;19(5):268, 2021.

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(59) Tsitsipanis C, Miliaraki M, Ntotsikas K, Baldounis D, Kokkinakis E, Briassoulis G, **Venihaki** M, Vakis A, Ilia S. Impact of Intracranial Hypertension on Outcome of Severe Traumatic Brain Injury Pediatric Patients: A 15-Year Single Center Experience. *Pediatr Rep*. 16;14(3):352-365, 2022.

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(61) Tsitsipanis C, Miliaraki M, Paflioti E, Lazarioti S, Moustakis N, Ntotsikas K, Theofanopoulos A, Ilia S, Vakis A, Simos P, **Venihaki** M. Inflammation biomarkers IL-6 and IL-10 may improve the diagnostic and prognostic accuracy of currently authorized traumatic brain injury tools. *Exp Ther Med*. 12;26 (2):364, 2023.

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V, Georgopoulos D, van de Veerdonk FL, Netea MG, Latge JP, Chamilos G. Uncoupling of IL-6 signaling and LC3-associated phagocytosis drives immunoparalysis during sepsis. *Cell Host Microbe*. 29(8):1277-1293.e6. 2021.

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CHAPTERS

- (1) **Venihaki M**, Muglia L, Majzoub J.A. Corticotropin-releasing hormone and the lung. In: *Endocrinology of the lung*, ed. Mendelson C, Humana Press.
- (2) 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.
- (3) Gkountelias K., Tselios T., **Venihaki M.**, Papadokostaki M., and Liapakis G. Identification of structural determinants of peptide binding to type 1 corticotropin releasing factor receptor. 6th Hellenic Forum on Bioactive Peptides, 2009
- (4) Exarchakou R., Magafa V., Manessi-Zoupa E., Assimomytis N. L., Georgiadou M., **Venihaki M.**, Varvounis G., Liapakis G. and Cordopatis P. Synthesis and Biological Evaluation of new Linear and Cyclic Analogues of Neurotensin, In *Proceedings of the 31st European Peptide Symposium*, European Peptide Society, pp 446-447, ed. Lebl M., Meldal M., Jensen K.J. and Hoeg-Jensen T, 2010.
- (5) Margioris AN, Androulidaki A, Dermitzaki E, **Venihaki M**, Tsatsanis C (2011) Hormones and immune system. In: *Pathology of the Lymphatic system*. Tsakraklidis V. Creative & Printing Applications M.E.P.E.
- (6) Margioris AN, Dermitzaki E, **Venihaki M**, Tsatsanis C (2013) Chronic low grade inflammation. In: *Diet, immunity and inflammation*. Philip C. Calder & Parveen Yaqoob, (eds). Woodhead Publishing Series in Food Science, Technology and Nutrition No. 232.

OTHER PUBLICATIONS

- (1) Plati I, Rassouli O, Dermitzaki E, Ieronymaki E, Briassoulis G, **Venihaki M**. Evaluation of HSP70 deficiency in the inflammatory response in vivo and in vitro: The impact of HSP90 expression, glucocorticoid release, and glutamine administration. *Journal of Biological Research - Thessaloniki*, Vol 29 (2022).

(2) CRH GENETIC DEFICIENCY PROTECTS MICE FROM THE DESTRUCTIVE EFFECTS OF DIET-INDUCED OBESITY ON WOUND HEALING

By: Rassouli, O.; Daskalaki, A.; Margioris, A. N.; et al. Source: WOUND REPAIR AND REGENERATION Volume: 22 Issue: 5 Pages: A95-A95 Published: SEP-OCT 2014

(2) INFLAMMATION-INDUCED ANALGESIA: IS LOCAL CRH AN IMPORTANT REGULATOR?

By: Karagianni, Efthymia; Rassouli, Olga; Margioris, Andrew N.; et al.

Source: ENDOCRINE REVIEWS Volume: 35 Issue: 3 Supplement: S Meeting Abstract: SUN-0667 Published: JUN 2014

(3) EFFECT OF GLUTAMINE TREATMENT ON CYTOKINE AND HSP70 EXPRESSION IN MURINE PERITONEAL MACROPHAGES FOLLOWING LPS STIMULATION

By: Plati, I.; Karagianni, E.; Rassouli, O.; et al.

Conference: ESICM 26th Annual Congress Location: Paris, FRANCE Date: OCT 05-09, 2013 Sponsor(s): ESICM

Source: INTENSIVE CARE MEDICINE Volume: 39 Supplement: 2 Pages: S478-S478 Meeting Abstract: 0944 Published: OCT 2013

(4) GLUCOCORTICOID-INDEPENDENT REGULATION OF CUTANEOUS WOUND HEALING BY CORTICOTROPIN RELEASE HORMONE (CRH)

By: Rassouli, Olga; Giannikaki, Elpida; Margioris, Andrew N.; et al.

Source: WOUND REPAIR AND REGENERATION Volume: 20 Issue: 5 Pages: A117-A117 Published: SEP-OCT 2012

(5) EXPRESSION OF MEMBERS OF TNF-ALPHA SUPERFAMILY IN CORTICOTROPIN-RELEASING HORMONE (CRH)-DEFICIENT MICE DURING CUTANEOUS WOUND HEALING

By: Romanou, Catherine; Rassouli, Olga; Alexaki, Vassilia I.; et al.

Source: WOUND REPAIR AND REGENERATION Volume: 20 Issue: 5 Pages: A117-A117 Published: SEP-OCT 2012

(6) A NOVEL ROLE OF ENDOGENOUS CORTICOTROPIN-RELEASING HORMONE (CRH) ON CUTANEOUS WOUND HEALING

By: Rassouli, O.; Liapakis, G.; Lazaridis, I.; et al.

Source: EUROPEAN JOURNAL OF CLINICAL INVESTIGATION Volume: 41 Supplement: 1 Pages: 77-77 Published: APR 2011

(7) SYNTHESIS AND BIOLOGICAL EVALUATION OF NEW LINEAR AND CYCLIC ANALOGUES OF NEUROTENSIN

By: Manessi-Zoupa, E. M. Z.; Exarchakou, R.; Magafa, V.; et al.

Source: JOURNAL OF PEPTIDE SCIENCE Volume: 16 Supplement: 1 Pages: 159-159 Published: SEP 2010

(8) ADIPONECTIN SIGNAL TRANSDUCTION LEADING TO MACROPHAGE TOLERANCE TO PRO-INFLAMMATORY STIMULI VIA INDUCTION OF IRAK-M
By: Zacharioudaki, V.; Androulidaki, A.; Dermitzaki, E.; et al.

Conference: Joint Conference of the 33rd FEBS Congress/11th IUBMB Conference

Location: Athens, GREECE Date: JUN 28-JUL 03, 2008

Source: FEBS JOURNAL Volume: 275 Supplement: 1 Pages: 322-322 Published: JUN 2008

(9) ADIPONECTIN CONTROLS MACROPHAGE SENSITIVITY AND TOLERANCE TO PROINFLAMMATORY STIMULI VIA INDUCTION OF IRAK-M

By: Tsatsanis, C.; Zacharioudaki, V.; Androulidaki, A.; et al.

Conference: 16th European Congress on Obesity Location: Geneva, SWITZERLAND

Date: MAY 14-17, 2008

Source: INTERNATIONAL JOURNAL OF OBESITY Volume: 32 Supplement: 1
Pages: S56-S56 Published: MAY 2008

(10) CORTICOTROPIN-RELEASING FACTOR (CRF) AND UROCORTINS AFFECT ADRENAL CATECHOLAMINES IN A CRF RECEPTOR TYPE-SPECIFIC MANNER
By: Dermitzaki, E.; Tsatsanis, C.; Venihaki, M.; et al.

Conference: 31st Congress of the Federation-of-European-Biochemical-Societies (FEBS)

Location: Istanbul, TURKEY Date: JUN 24-29, 2006 Sponsor(s): Federat European Biochem Soc

Source: FEBS JOURNAL Volume: 273 Supplement: 1 Pages: 104-104 Published: JUN 2006

(11) TYPE 3 IODOTHYRONINE DEIODINASE IN INFANTILE HEMANGIOMAS, A NEW CAUSE OF PEDIATRIC HYPOTHYROIDISM

By: Huang, SA; Tu, HM; Butte, AJ; et al.

Conference: Annual Meeting of the Pediatric-Academic-Society Location: SEATTLE, WASHINGTON Date: MAY 03-06, 2003 Sponsor(s): Pediat Acad Soc; Amer Pediat Soc; Soc Pediat Res; Ambulatory Pediat Assoc; Tulane Univ Hlth Sci Ctr, Ctr Continuing Educ

Source: PEDIATRIC RESEARCH Volume: 53 Issue: 4 Supplement: S Pages: 142A-142A Part: 2 Meeting Abstract: 810 Published: APR 2003

(12) DIMINISHED INTESTINAL INFLAMMATORY AND SECRETORY RESPONSES IN CORTICOTROPIN-RELEASING HORMONE (CRH) DEFICIENT MICE

By: Anton, PM; Venihaki, M; Castagliuolo, I; et al.

Source: GASTROENTEROLOGY Volume: 122 Issue: 4 Supplement: 1 Pages: A14-A15 Meeting Abstract: 107 Published: APR 2002

SEMINAR-TALKS

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

June 2001 Altered hypothalamic-pituitary-adrenal (HPA) axis regulation in tumor necrosis factor alpha (TNF α)-deficient mice. The 83rd annual Endocrine Society Meeting, Denver, Colorado.

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

February 2002 Corticotropin-Releasing Factors 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

April 2011 Organization of the Workshop: Stress and the skin, 45th Annual Scientific Meeting of the European Society for Clinical Investigation,

April 2011 The CRF stress system in normal skin and wound healing, ESCI, Crete

May 2011 Stress and wound healing. Graduate Program "Neurosciences"

June 2011 Stress Neuropeptides and Inflammation. Retreat Graduate Program "Brain and Mind"

October 2015 13th Meeting of Clinical Chemistry (member of the Scientific Committee)

January 2017 Invited talk Adipose tissue and wound healing. 1st IBIS (Institute of Biology and Medicine of Stress), Athens, Greece.

October 2023 CFTR mutations prevalence in the population of Crete. Clinical Chemistry Annual meeting.

CONFERENCES/WORKSHOPS/etc. (FROM A TOTAL OF >100)

- (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, Makrigiannakis 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 81st 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 81st Annual Endocrine Society Meeting, San Diego, USA.
- (15) **Venihaki M**, Zhao J, Jackson A, and Karalis K. Inhibition of pituitary NF- κ B by Corticotropin-releasing hormone (CRH): Potential role in the regulation of the stress response. The 82nd annual Endocrine Society Meeting, Toronto Canada
- (16) **Venihaki M**, Rosenfeld MG and Majzoub JA. Lung Corticotropin-releasing hormone (CRH): An important regulator of the fetal hypothalamic-pituitary-adrenal (HPA) axis. The 82nd annual Endocrine Society Meeting, Toronto Canada
- (17) 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 82nd annual Endocrine Society Meeting, Toronto Canada
- (18) 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*^{-/-}) mice during inflammation. The 83rd annual Endocrine Society Meeting, Denver, Colorado.
- (19) **Venihaki M** and Karalis K.P. Corticotropin-Releasing Hormone (CRH) regulates leptin during immune activation. The 83rd annual Endocrine Society Meeting, Denver, Colorado. Selected for oral presentation
- (20) **Venihaki M**, Kollias G, and Karalis K.P. Altered hypothalamic-pituitary-adrenal (HPA) axis regulation in tumor necrosis factor alpha (TNF α)-deficient mice. The 83rd annual Endocrine Society Meeting, Denver, Colorado. Selected for oral presentation
- (21) **Venihaki M** and Karalis K.P. A Role for Corticotropin-Releasing Hormone (CRH) in cutaneous wound healing. The 84th annual Endocrine Society Meeting, San Francisco, CA. Selected for oral presentation
- (22) **Venihaki M**, vanVlerken L, and Karalis K.P. Leptin regulation in tumor necrosis factor alpha (TNF α)-deficient mice. The 84th annual Endocrine Society Meeting, San Francisco, CA.

- (23) 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 84th annual Endocrine Society Meeting, San Francisco, CA.
- (24) Majzoub J.A., **Venihaki** M., Jeong K.H., Weninger S.C., Karalis K. CRH-related hypothalamic peptides: Endocrine, behavioural and autonomic effects.
- (25) **Venihaki** M., Weaver D., Majzoub J.A. Disruption of the clock gene results in impaired corticosterone response to stress. The 85th annual Endocrine Society Meeting, Philadelphia, PA.
- (26) 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 87th annual Endocrine Society Meeting, San Diego, CA.
- (27) Arditi J., **Venihaki** M., Chrousos GP., Karalis KP. Decreased Adiponectin mRNA Expression in *Crh*^{-/-} mice in Cutaneous Wound Healing. The 87th annual Endocrine Society Meeting, San Diego, CA.
- (28) 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 (CRF₁) and 2 (CRF₂) in catecholamine secretion and production in adrenomedullary chromaffin cells. 88th Annual Meeting of Endocrine Society, USA, 2006.
- (29) 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- α release from macrophages via induction of COX-2 and PGE₂. 88th Annual Meeting of Endocrine Society, USA, 2006.
- (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. 31st FEBS Congress, Istanbul, 2006.
- (31) 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. 12th Meeting of the European Neuroendocrine Association (ENEA), Greece, 2006.
- (32) 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.

- (33) Olga Rassouli, Achille Gravanis, Andrew N. Margioris, Katia P. Karalis **Maria Venihaki**: Corticotropin-releasing hormone (Crh) deficiency accelerates dermal fibroblast proliferation; role of interleukin IL-6. 91th Annual Meeting of Endocrine Society, USA, 2009.
- (34) 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. 5th Era of Hope Conference
- (35) 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. 18th ECO.
- (36) Exarchakou R., Spyridaki K., , Zoumpoulakis P., Potamitis C., Assimomytis N. L., **Venihaki M.**, Cordopatis P., Liapakis G. and Magafa V. Synthesis, Competition Binding and Conformational Studies of Linear and Cyclic Analogues of C-Terminal Hexapeptide of Neurotensin. The 29th Cyprus-Camerino-Noordwijkerhout Trends in Drug Research Medicinal Chemistry EFMC Symposium, Limassol, Cyprus, 2011
- (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. 1^{rst} IDOF (*International Diabetes and Obesity Forum*)
- (38) Alexaki VI, Simantiraki D, Panayiotopoulou M, Rasouli O, **Venihaki M**, Kampa M, Stathopoulos EN, Castanas E. Use of adipose-derived mesenchymal stem cells as a cell feeder layer for keratinocytes *in vitro* in 2D and 3D cultures and *in vivo*. 3rd International Congress on Stem Cell and Tissue formation 2010, 11-14 July, Dresden, Germany
- (39) Markaki A, Gkouskou K, Vlastos I, Stylianou K, Perakis K, **Venihaki M**, Daphnis E (2011). Relationship between adiposity, adipokines, inflammatory markers and lipid profile in hemodialysis (HD) and peritoneal dialysis (PD) patients. DIETS Conference V “Building a strong evidenced based approach to nutrition and dietetics”. Barcelona 21st and 22nd of October 2011
- (40) C. Romanou, O. Rassouli, V.I. Alexaki, E. Karagianni, E. Castanas, A.N. Margioris, M. **Venihaki**. Exression Of Members Of Tnf-Alpha Superfamily In Corticotropin-Releasing Hormone (Crh) Deficient Mice During Cutaneous Wound Healing. 22nd European Tissue Repair Society Meeting. October 4-5, 2012. Athens, Hellas
- (41) O. Rassouli, E. Giannikaki, A.N. Margioris, K.P. Karalis, M **Venihaki**. Glucocorticoid - Independent Regulation Of Cutaneous Wound Healing By Corticotropin Release Hormone (Crh). 22nd European Tissue Repair Society Meeting. October 4-5, 2012. Athens, Hellas

- (42) E. Dermitzaki, P. Avgoustinaki, M. **Venihaki**, G. Chlouverakis, N. Malliaraki C. Tsatsanis, AN. Margioris (2013) Circulating adiponectin as marker of obesity-induced chronic low-grade inflammation. *15th ECE (European Congress on Obesity)*, Copenhagen, Denmark
- (43) Karagianni E, Rassouli O, Dermitzaki E, Margioris AN, **Venihaki** M (2014) Inflammation-induced analgesia: Is local CRH an important regulator? *16th ICE (International Congress of Endocrinology) & 96th (ENDO) Endocrine Society Annual Meeting*, Chicago, USA
- (44) O. Rassouli, A. Daskalaki, A.N. Margioris, M. **Venihaki**. Crh Genetic Deficiency Protects Mice From The Destructive Effects Of Diet-Induced Obesity On Wound Healing. *24th Annual meeting of «European Tissue Repair Society»*. September 10-12, 2014. Edinburg
- (45) Katrinaki M, Dermitzaki E, Bobjer J, Lundberg Giwerzman Y, Malliaraki N, **Venihaki** M, Margioris AN, Giwerzman A, Tsatsanis C (2017) Correlations between lipokines and infertility in obese men. *22nd Euromedlab (IFCC-EFLM European Congress of Clinical Chemistry and Laboratory Medicine)*, Athens, Greece
- (46) O. Rassouli, I Plati, G. Briassoulis, and M. **Venihaki**. Heat Shock Protein 90 is the key mediator of the increased inflammatory response of Hsp70-/- derived peritoneal macrophages following LPS stimulation. *Euromedlab meeting*, May 2019, Barcelona, Spain
- (47) Smaragda Poulaki, Achille Gravanis, Maria Venihaki¹* BNN27 exerts significant anti-inflammatory effects on T-lymphocytes derived from mice following CFA-induced inflammation *EEBMB, Greece 2018*
- (48) C. Tsitsipanis, M. Miliaraki, E. Paflioti, C. Mpartsokas, S. Lazarioti, K. Ntotsikas, N. Moustakis, E. Kokkinakis, A.Theofanopoulos, A. Vakis, M. **Venihaki**. The role of Interleukins in Traumatic Brain Injury. *EANS 2022*
- (49) Dermitzaki E, Katrinaki M, Tsatsanis C, **Venihaki** M. (2023) Mutational Spectrum of the CFTR Gene in a Greek (Cretan) Subpopulation. *WorldLab-EuroMedLab, Roma, Italy 2023*
- (50) Deiktakis M, Kolliniati O, Papadiamanti EL, Mouatsou C, Tsatsanis C, Margioris AN, **Venihaki** M, Dermitzaki E (2022) Evaluation of metabolic outcomes of Crh-/- mice exposed to diet-induced obesity. *9th Young Scientists Day of EEBMB, Patra, Greece (invited oral presentation)*
- (51) Deiktakis M, Kolliniati O, Papadiamanti EL, Mouatsou C, Tsatsanis C, Margioris AN, **Venihaki** M, Dermitzaki E (2022) Evaluation of metabolic outcomes of Crh-/- mice exposed to diet-induced obesity. *72nd EEBMB, Patra, Greece*

(52) Deiktakis M, Athanasakis E, Charalampopoulos I, Tsatsanis C, **Venihaki** M, Gravanis A, Margioris AN, Dermitzaki E (2022) Steroid Hormone Dehydroepiandrosterone affects the pro-inflammatory phenotype of human adipocytes and mouse 3T3L1 adipocytes. Laboratory Medicine for Mobile Societies in our Area, Heraklion, Crete, Greece

(53) V. Bempi, K. Margetaki, T. Roumeliotaki, E. Papadopoulou, M. Kogevinas, L. Chatzi, M. **Venihaki**, M Vafeiadi. Prenatal exposure to mild analgesics and anogenital distance in children from the Rhea birth cohort in Crete, Greece. PPTOX meeting, 2022, Crete, Greece

MEMBERSHIPS

American Endocrine Society
American Neuroendocrine Society
Greek Endocrine Society
Greek Clinical Chemistry Society
EEMBB
Federation of European Biochemical Societies
European Federation of Clinical Chemistry and Laboratory Medicine
European Tissue Repair Society
International Association for the Study of Pain

REVIEWING ACTIVITY

Endocrinology
Journal of Investigative Dermatology
Plos one
Journal of Cellular Physiology
Rejuvenation Research
Journal of Neuroendocrinology
Journal of Endocrinology
Journal of Neurochemistry
MDPI Journals
Member of the Editorial Board of Biomedicines
Member of the Editorial Board of Hormone
Reviewer of Fellowships and Grants for I.K.Y., ELIDEK, American Endocrine Society, and Spanish Research Committee

TEACHING ACTIVITY

2005-present Teaching Laboratory Medicine and Pharmacology–3rd year Medical students/University of Crete/Greece

2008-present Graduate Program “Brain and Mind”

2011-present Graduate Program “Neurosciences”

2007-present Graduate Program “Molecular basis of Human Diseases”

2016-present Graduate Program “Intensive Care of Children and Adolescents”

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

2007 - 2023 2 postdoc/7 PhD as supervisor and 7 as member of their Committee/6 Master Students as supervisor University of Crete/ Medical School/Greece

CLINICAL LABORATORY DUTIES

Since 2008 I have been member of the Clinical Laboratory of the University Hospital of Heraklion with specific roles in:

- i. 2008-2012: Bone metabolism tests
- ii. 2009-2012: Inflammatory markers tests
- iii. 2015-today: the Molecular Analysis Lab of CFTR mutations

ADMISTRATIVE DUTIES

1. Member of the Scientific Counsil of the University Hospital of Heraklion (2009-present)
2. Member of the Ethics Committee of the University Hospital of Heraklion (2009-2010)
3. Member of the Committee for the quality and safety of patients of the Medical School of UOC (2015-2017)

RESEARCH GRANTS

Project Title	Funding source	Period	Role of the PI
The role of CRH-related peptides	NARSAD	2002-2004	PI

in stress-induced behaviors and anxiety			
The role of CRH in angiogenesis and wound healing	GSRT	2006-2010	Investigator
Inflammation-induced analgesia: Role of stress neuropeptides	Ministry of Education, Herakleitos	2010-2013	PI
Role of CRH in peripheral analgesia	ELKE (start up)	2010-2012	PI
Stress and psoriasis	FP7-Regpot	2012-2014	Investigator
Synthetic microneurotrophins: Elucidation of their role and mechanism of action on inflammatory pain	ELKE (Fellowship)	2017-2020	PI
H2020 PROGRAM BBI, AQUAPROBIO	EU H2020	2018-20222	Investigator
EPAnEK (T2EΔK-02056)	(T2EΔK-02056)	2020-2023	Investigator