

CURRICULUM VITAE

PARASKEVI MOUTSATSOU

PERSONAL DETAILS

Date of birth : 9 November 1958
Nationality : Greek
Marital status : Married with two children
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CURRENT APPOINTMENT: Professor of Medical Chemistry-Clinical Biochemistry, Dept. of Biological Chemistry, Medical School, University of Athens, Greece. Scientific Director of the Research Unit "Steroid Hormones-Steroid Receptors" within the Dept. of Biological Chemistry.

EDUCATION AND QUALIFICATION

1981: **Bachelor in Chemistry**, Aristotelian University of Thessaloniki, Greece
1982-1986: **MSc in Steroid Endocrinology**, and then **PhD in Steroid Endocrinology**, Department of Chemical Pathology, Medical School, University of Leeds, U.K.
1991: **Medical Specialty in Clinical Chemistry**, Greek Ministry of Health
1981: **Award** by the Academy of Athens for postgraduate studies in Biochemistry in UK

PROFESSIONAL ACTIVITIES

1987-1993: Principal Biochemist in Laboratory of Hormone Assays in Evangelismos" Hospital, Athens
1993-2003: Assistant Professor, Department of Biological Chemistry, Medical School, Univ.Athens.
2003-2013: Associate Professor, Department of Biological Chemistry, Medical School, Univ. Athens.
20013-Today: Professor, Department of Biological Chemistry, Medical School, Univ. Athens.

TEACHING ACTIVITIES

1993-Today: In undergraduate medical students: Medical Chemistry, Biochemistry and Clinical Chemistry

1997-Today: In 6 postgraduate courses leading to a Master of Science (MSc.) degree, namely "Molecular Medicine", "Metabolic Disorders of Bone Tissue", "Molecular and Applied Physiology", "Laboratory and Clinical Medicine" in the Medical School of NKUA and "Clinical Chemistry" and "Clinical Biochemistry-Molecular Diagnostics" in the Dept. of Chemistry and Dept of Biology of NKUA

TEACHING SUBJECTS: Carbohydrates and proteins (structure), protein structure and function (collagen, haemoglobin, immunoglobulins), endocrine system, steroid hormones and steroid receptors, adrenal steroids and adrenal diseases, gonadal steroids and gonadal diseases. Estrogen receptor/glucocorticoid receptor signaling and bone function. Molecular biology techniques. Steroid hormone and Vitamin D assays.

1997-Today: Supervision of 14 PhD theses (completed) and 6 MSc theses (completed) and 2 Bachelor thesis (completed)

MAIN RESEARCH INTERESTS

The role of steroid hormones and steroid receptors in the pathophysiology of various diseases in humans. Clinical studies concern a) the role of steroid receptor mutations and steroid receptor signaling, especially glucocorticoid and estrogen receptor, in the aetiopathology of diseases such as bipolar disorder, Alzheimer disease, breast cancer, autoimmune diseases, osteoporosis, cardiovascular diseases, and b) development of methods for steroid determination in blood, such as GC/MS and LC-MS/MS. Studies at the cellular level concern 1) the glucocorticoid receptor-mitochondria interaction and 2) screening of synthetic/natural compounds for their estrogenic/antiestrogenic action, anti-inflammatory action on various cellular systems, such as breast cancer cells, prostate cancer cells, osteoblasts, endometrial cells, endothelial cells, peripheral blood mononuclear cells, by use of molecular biology techniques.

MEMBER OF SCIENTIFIC SOCIETIES

Society for Endocrinology (U.K.), Association of Clinical Biochemists (U.K.) and in many Greek Scientific

INTERNATIONAL COOPERATION

- University of Dundee (U.K.). Department of Neurosciences (Dr K.C.Breen).
- University of Leeds (U.K.). Department of Epidemiology and Reproduction (Professor H.Cuckle) on Down's syndrome.
- Karolinska Institute. Department of Biosciences and Nutrition, Functional Genomics, Sweeden (Prof. K. Dahlman-Wright).
- University of Manchester School of Pharmacy and Pharmaceutical Sciences (Dr. C. Demonacos).
- Process Chemistry Centre, Wood and Paper Chemistry Turku /Ab, Abo Akademi University, Finland, (Professor B. Holmbom).
- Biotechnology Laboratory, Kajaani University Consortium, University of Oulu, Finland (Dr. V. Vertanen).

PRESIDENT/COORDINATOR OF "HUMAN NETWORKS" IN GREECE

- Network on Clinical and Molecular Endocrinology (30 members)(duration 24 months)
- Network on Environmental estrogens and their effect on human health (50 members) (duration 24 months) financed by the Greek Ministry of Development", General Secretariat of Research and Technology.

MEMBER OF INTERNATIONAL NETWORKS

1994: «Establishment of a Network of European Steroid Reference Laboratories, NESRL».

2006-2009: COST Action (European Cooperation in the Field of Scientific and Technical Research), E39 "Forests, trees and human health and wellbeing".

2007: «Health and the Natural Outdoors», COST strategic workshop.

REVIEWER IN INTERNATIONAL JOURNALS

1. Oncology
2. Molecular Psychiatry
3. Annals of Clinical Biochemistry
4. Maturitas
5. Rheumatology
6. Acta Pharmacologica Sinica (APS)
7. Biological Psychiatry
8. The International Journal of Biochemistry & Cell Biology
9. Progress in Neuro-Psychopharmacology & Biological Psychiatry
10. Neuroimmunomodulation
11. Basic & Clinical Pharmacology & Toxicology
12. Journal of Musculoskeletal and Neuronal Interactions
13. Journal of Agricultural and Food Chemistry
14. Clinical Immunology
15. Biochimie
16. J. of Chromatography A
17. Hormones
18. Mediators of Inflammation
19. Current Signal Transduction Therapy
20. Breast Cancer Research and Treatment
21. Cancer Letters
22. Environmental Health Perspectives
23. Cancer Investigation
24. Clinical Biochemistry
25. Naunyn-Schmiedeberg Archives of Pharmacology
26. Anti-cancer Drugs
27. Gynecologic and Obstetric Investigation
28. Analytica Clinica Acta
29. Environmental Toxicology and Pharmacology

- 30. Life Science
- 31. Evidence-Based Complementary and Alternative Medicine
- 32. Phytotherapy Research
- 33. Molecules
- 34. PLOS ONE
- 35. American Aging Association (AGE)
- 36. Food Chemistry.
- 37. Psychoneuroendocrinology

2011: Certificate of Appreciation by ACS Publications

INVITED TALKS

Molecular control of inflammatory responses by estrogens - Role in estrogen dependent diseases.

Invited speaker in 5rd Congress of the European Society of Gynecology.

Rhodes, 11 October 2003.

[Rôle des phénomènes inflammatoires dans les maladies oestrogéno-dépendantes]. Molecular control of inflammatory responses by estrogens - Role in estrogen dependent diseases.

Invited speaker in the 7th European Days of the French Society of Gynecology.

Paris-France, 7 October 2004.

Greek flora devired plant extracts/constituents demonstrate selective estrogen receptor modulator (SERM) like properties.

Speaker in Session 5 “Mediterranean Diet and Current Research”.

2nd International Conference “Traditional Mediterranean Diet: Past, Present and Future. Focusing on Olive Oil and Traditional Food Products”.

Athens, Greece, 20-22 April 2005.

The glucocorticoid receptor signaling in depression.

Invited speaker in the CB Seminar, CBT Seminar Room.

Karolinska Institutet, 20 September 2010.

The glucocorticoid receptor signaling in depression.

Invited speaker in the Seminar of Life Sciences in the University Manchester.

Manchester, 15 July 2011.

RESEARCH GRANTS

My research has been supported financially from the General Secretariat of Research and Technology (GSRT)-Ministry of Development (PAVE; EPAN; PRAXE; DESPRO; SMES; HUMAN NETWORKS; GREECE-CHINA COOPERATION etc.); Ministry of Education (HERAKLITOS; PENNED; ARISTIA); University of Athens (RESEARCH ACCOUNT). The total budget of research grants is 1.000.000 euro approximately.

PUBLICATIONS

- **In International journals:** 70 full text articles and 23 Supplements in PubMed, ISI Web of Science results, and Scopus (1st and last senior author in 58 of the 70 full articles). I.F:297 , Citations:933 (Personal citations 736), h index: 19

- **Chapters in International textbooks:** 6

- **Presentations in international conferences:** 54

SELECTED PUBLICATIONS

1. E.Spilioti, B.Holmbom, A.Papavassiliou, P.Moutsatsou. Lignans 7-Hydroxymatairesinol and 7-

- Hydroxymatairesinol 2 exhibit anti-inflammatory activity in human aortic endothelial cells. *Molecular Nutrition and Food Research.* 2103.
2. E.Kassi, C.Dimas, M.Dalamaga, A.Panagiotou, Z.Papoutsi, E.Spilioti, P.Moutsatsou. Sideritis eboea extract lowers total cholesterol but not LDL cholesterol in humans: a randomized controlled trial. *Clinical Lipidol.* 2013;8(6).

 3. Bei ES, Salpeas V, Alevizos B, Anagnostara C, Pappa D, **Moutsatsou P.** Pattern of heat shock factor and heat shock protein expression in lymphocytes of bipolar patients: increased HSP70-glucocorticoid receptor heterocomplex. *J Psychiatr Res.* 2013 Nov;47(11):1725-36.
 4. **Moutsatsou P**, Kassi E, Papavassiliou AG. Glucocorticoid receptor signaling in bone cells. *Trends Mol Med.* 2012 Jun;18(6):348-59.
 5. Lazaridou A, Papoutsi Z, Biliaderis C, **Moutsatsou P.** Effect of oat and barley β -glucans on inhibition of cytokine-induced adhesion molecule expression in human aortic endothelial cells: Molecular structure–function relations. *Carbohydr Polym.* 2011;84(1):153-161.
 6. Kassi E, Paliogianni A, Dontas I, Aligiannis N, Halabalaki M, Papoutsi Z, Skaltsounis AL, **Moutsatsou P.** Effects of Sideritis euboea (Lamiaceae) aqueous extract on IL-6, OPG and RANKL secretion by osteoblasts. *Nat Prod Commun.* 2011 Nov;6(11):1689-96
 7. Magnisali P, Chalioti MB, Livadara T, Mataragas M, Paliatsiou S, Malamitsi-Puchner A, **Moutsatsou P.** Simultaneous quantification of 17 α -OH progesterone, 11-deoxycortisol, Δ 4-androstenedione, cortisol and cortisone in newborn blood spots using liquid chromatography-tandem mass spectrometry. *J Chromatogr B Analyt Technol Biomed Life Sci.* 2011 Jun 1;879(19):1565-72.
 8. McHugh D, Cameron CA, Abdenur JE, Abdulrahman M, Adair O, Al Nuaimi SA, Åhlman H, Allen JJ, Antonozzi I, Archer S, Au S, Auray-Blais C, Baker M, Bamforth F, Beckmann K, Pino GB, Berberich SL, Binard R, Boemer F, Bonham J, Breen NN, Bryant SC, Caggana M, Caldwell SG, Camilot M, Campbell C, Carducci C, Bryant SC, Caggana M, Caldwell SG, Camilot M, Campbell C, Carducci C, Cariappa R, Carlisle C, Caruso U, Cassanello M, Castilla AM, Ramos DE, Chakraborty P, Chandrasekar R, Ramos AC, Cheillan D, Chien YH, Childs TA, Chrastina P, Sica YC, de Juan JA, Colandre ME, Espinoza VC, Corso G, Currier R, Cyr D, Czuczy N, D'Apolito O, Davis T, de Sain-Van der Velden MG, Delgado Pecellin C, Di Gangi IM, Di Stefano CM, Dotsikas Y, Downing M, Downs SM, Dy B, Dymerski M, Rueda I, Elvers B, Eaton R, Eckerd BM, El Mougy F, Eroh S, Espada M, Evans C, Fawbush S, Fijolek KF, Fisher L, Franzson L, Frazier DM, Garcia LR, Bermejo MS, Gavrilov D, Gerace R, Giordano G, Irazabal YG, Greed LC, Grier R, Grycki E, Gu X, Gulamali-Majid F, Hagar AF, Han L, Hannon WH, Haslip C, Hassan FA, He M, Hietala A, Himstedt L, Hoffman GL, Hoffman W, Hoggatt P, Hopkins PV, Hougaard DM, Hughes K, Hunt PR, Hwu WL, Hynes J, Ibarra-González I, Ingham CA, Ivanova M, Jacox WB, John C, Johnson JP, Jónsson JJ, Karg E, Kasper D, Klopper B, Katakouzinos D, Khneisser I, Knoll D, Kobayashi H, Koneski R, Kozich V, Kouapei R, Kohlmueller D, Kremensky I, la Marca G, Lavochkin M, Lee SY, Lehotay DC, Lemes A, Lepage J, Lesko B, Lewis B, Lim C, Linard S, Lindner M, Lloyd-Puryear MA, Lorey F, Loukas YL, Luedtke J, Maffitt N, Magee JF, Manning A, Manos S, Marie S, Hadachi SM, Marquardt G, Martin SJ, Matern D, Mayfield Gibson SK, Mayne P, McCallister TD, McCann M, McClure J, McGill JJ, McKeever CD, McNeilly B, Morrissey MA, **Moutsatsou P**, Mulcahy EA, Nikoloudis D, Norgaard-Pedersen B, Oglesbee D, Oltarzewski M, Ombrone D, Ojodu J, Papakonstantinou V, Reoyo SP, Park HD, Pasquali M, Pasquini E, Patel P, Pass KA, Peterson C, Pettersen RD, Pitt JJ, Poh S, Pollak A, Porter C, Poston PA, Price RW, Queijo C, Quesada J, Randell E, Ranieri E, Raymond K, Reddic JE, Reuben A, Ricciardi C, Rinaldo P, Rivera JD, Roberts A, Rocha H, Roche G, Greenberg CR, Mellado JM, Juan-Fita MJ, Ruiz C, Ruoppolo M, Rutledge SL, Ryu E, Saban C, Sahai I, García-Blanco MI, Santiago-Borrero P, Schenone A, Schoos R, Schweitzer B, Scott P, Seashore MR, Seeterlin MA, Sesser DE, Sevier DW, Shone SM, Sinclair G, Skrinska VA, Stanley EL, Strovel ET, Jones AL, Sunny S, Takats Z, Tanyalcin T, Teofoli F, Thompson JR, Tomashitis K, Domingos MT, Torres J, Torres R, Tortorelli S, Turi S, Turner K, Tzanakos N, Valiente AG, Vallance H, Vela-Amieva M, Vilarinho L, von Döbeln U, Vincent MF, Vorster BC, Watson MS, Webster D, Weiss S, Wilcken B, Wiley V, Williams SK, Willis SA, Woontner M, Wright K, Yahyaoui R, Yamaguchi S, Yssel M, Zakowicz WM. Clinical validation of cutoff target ranges in newborn screening of metabolic disorders by tandem mass spectrometry: a worldwide collaborative project. *Genet Med.* 2011 Mar;13(3):230-54.
 9. Kassi E, **Moutsatsou P.** Glucocorticoid receptor signaling and prostate cancer. *Cancer Lett.* 2011 Mar 1;302(1):1-10.

10. Lekakis J, Ikonomidis I, Papoutsi Z, **Moutsatsou P**, Nikolaou M, Parassis J, Kremastinos DT. Selective serotonin re-uptake inhibitors decrease the cytokine-induced endothelial adhesion molecule expression, the endothelial adhesiveness to monocytes and the circulating levels of vascular adhesion molecules. *Int J Cardiol.* 2010 Mar 4;139(2):150-8.
11. Loizou S, Lekakis I, Chrouzos GP, **Moutsatsou P**. Beta-sitosterol exhibits anti-inflammatory activity in human aortic endothelial cells. *Mol Nutr Food Res.* 2010 Apr;54(4):551-8.
12. **Moutsatsou P**, Papoutsi Z, Kassi E, Heldring N, Zhao C, Tsipara A, Melliou E, Chrouzos GP, Chinou I, Karshikoff A, Nilsson L, Dahlman-Wright K. Fatty acids derived from royal jelly are modulators of estrogen receptor functions. *PLoS One.* 2010 Dec 22;5(12):e15594.
13. Kassi E, **Moutsatsou P**. Estrogen receptor signaling and its relationship to cytokines in systemic lupus erythematosus. *J Biomed Biotechnol.* 2010;317452.
14. Tsipara A, Jaakola M, Chinou I, Graikou K, Tolonen T, Virtanen V, **Moutsatsou P**. Bioactivity of Greek honey extracts on breast cancer (MCF-7), prostate cancer (PC-3) and endometrial cancer (Ishikawa) cells: Profile analysis of extracts. *Food Chem.* 2009;116(3):702-708.
15. Tsinti M, Kassi E, Korkolopoulou P, Kapsogeorgou E, **Moutsatsou P**, Patsouris E, Manoussakis MN. Functional estrogen receptors alpha and beta are expressed in normal human salivary gland epithelium and apparently mediate immunomodulatory effects. *Eur J Oral Sci.* 2009 Oct;117(5):498-505.
16. Loizou S, Paraschos S, Mitakou S, Chrouzos GP, Lekakis I, **Moutsatsou P**. Chios mastic gum extract and isolated phytosterol tirucallol exhibit anti-inflammatory activity in human aortic endothelial cells. *Exp Biol Med (Maywood).* 2009 May;234(5):553-61.
17. Kassi E, Sourlingas TG, Spiliotaki M, Papoutsi Z, Pratsinis H, Aligiannis N, **Moutsatsou P**. Ursolic acid triggers apoptosis and Bcl-2 downregulation in MCF-7 breast cancer cells. *Cancer Invest.* 2009 Aug;27(7):723-33.
18. Strati A, Papoutsi Z, Lianidou E, **Moutsatsou P**. Effect of ellagic acid on the expression of human telomerase reverse transcriptase (hTERT) alpha+beta+ transcript in estrogen receptor-positive MCF-7 breast cancer cells. *Clin Biochem.* 2009 Sep;42(13-14):1358-62.
19. Bei E, Salpeas V, Pappa D, Anagnostara C, Alevizos V, **Moutsatsou P**. Phosphorylation status of glucocorticoid receptor, heat shock protein 70, cytochrome c and Bax in lymphocytes of euthymic, depressed and manic bipolar patients. *Psychoneuroendocrinology.* 2009 Sep;34(8):1162-75.
20. **Moutsatsou P**, Papavassiliou AG. The glucocorticoid receptor signalling in breast cancer. *J Cell Mol Med.* 2008 Jan-Feb;12(1):145-63.
21. Papoutsi Z, Kassi E, Chinou I, Halabalaki M, Skaltsounis LA, **Moutsatsou P**. Walnut extract (*Juglans regia L.*) and its component ellagic acid exhibit anti-inflammatory activity in human aorta endothelial cells and osteoblastic activity in the cell line KS483. *Br J Nutr.* 2008 Apr;99(4):715-22.
22. Magnisali P, Dracopoulou M, Mataragas M, Dacou-Voutetakis A, **Moutsatsou P**. Routine method for the simultaneous quantification of 17alpha-hydroxyprogesterone, testosterone, dehydroepiandrosterone, androstenedione, cortisol, and pregnenolone in human serum of neonates using gas chromatography-mass spectrometry. *J Chromatogr A.* 2008 Oct 10;1206(2):166-77.
23. Papoutsi Z, Kassi E, Halabalaki M, Mitakou S, **Moutsatsou P**. Evaluation of estrogenic/antiestrogenic activity of Onobrychis ebenoides extract - interaction with estrogen receptor subtypes ERalpha and ERbeta. *Toxicol In Vitro.* 2007 Apr;21(3):364-70.
24. Sgouros J, Galani E, Gonas E, **Moutsatsou P**, Belechri M, Skarlos D, Dionyssiou-Asteriou A. Correlation of nm23-H1 gene expression with clinical outcome in patients with advanced breast cancer. *In Vivo.* 2007 May-Jun;21(3):519-22.
25. Kassi E, Papoutsi Z, Pratsinis H, Aligiannis N, Manoussakis M, **Moutsatsou P**. Ursolic acid, a naturally occurring triterpenoid, demonstrates anticancer activity on human prostate cancer cells. *J Cancer Res Clin Oncol.* 2007 Jul;133(7):493-500.
26. **Moutsatsou P**. The spectrum of phytoestrogens in nature: our knowledge is expanding. *Hormones (Athens).* 2007 Jul-Sep;6(3):173-93.
27. Papoutsi Z, Kassi E, Fokialakis N, Mitakou S, Lambrinidis G, Mikros E, **Moutsatsou P**. Deoxybenzoins are novel potent selective estrogen receptor modulators. *Steroids.* 2007 Sep;72(9-10):693-704.
28. Tziraki AA, Sotsiou FK, Tzirakis MA, Kominakis AP, Hadjiconstantinou VF, Nikolopoulou NI, **Moutsatsou PC**. Reduction in glucocorticoid receptors in renal biopsies of patients with lupus nephritis. *Clin Biochem.* 2007 Nov;40(16-17):1188-93.
29. Oikonomidou O, Vlachoyiannopoulos PG, Kominakis A, Kalofoutis A, Moutsopoulos HM, **Moutsatsou P**. Glucocorticoid receptor, nuclear factor kappaB, activator protein-1 and C-jun N-

- terminal kinase in systemic lupus erythematosus patients. *Neuroimmunomodulation*. 2006;13(4):194-204.
30. Papoutsi Z, Kassi E, Mitakou S, Aligianis N, Tsipapara A, Chrouzos GP, **Moutsatsou P**. Acteoside and martynoside exhibit estrogenic/antiestrogenic properties. *J Steroid Biochem Mol Biol*. 2006 Jan;98(1):63-71.
31. Lekatsas I, Koulouris S, Triantafyllou K, Chrisanthopoulou G, **Moutsatsou-Ladikou P**, Ioannidis G, Thalassinos N, Kalofoutis A, Anthopoulos L. Prognostic significance of microalbuminuria in non-diabetic patients with acute myocardial infarction. *Int J Cardiol*. 2006 Jan 13;106(2):218-223.
32. Duntas I, Halabalaki M, **Moutsatsou P**, Mitakou S, Papoutsi Z, Khaldi L, Galanos A, Lyritis GP. Protective effect of plant extract from Onobrychis ebenoides on ovariectomy-induced bone loss in rats. *Maturitas*. 2006 Jan 20;53(2):234-42.
33. Spiliotaki M, Salpeas V, Malitas P, Alevizos V, **Moutsatsou P**. Altered glucocorticoid receptor signaling cascade in lymphocytes of bipolar disorder patients. *Psychoneuroendocrinology*. 2006 Jul;31(6):748-60.
34. Grounet R, Magiatis P, Mitaku S, Loizou S, **Moutsatsou P**, Terzis A, Cabalion P, Tillequin F, Michel S. seco-Cycloartane triterpenes from Gardenia aubryi. *J Nat Prod*. 2006 Dec;69(12):1711-4.
35. Kassi E, Vlachoyiannopoulos PG, Kominakis A, Kiaris H, Moutsopoulos HM, **Moutsatsou P**. Estrogen receptor alpha gene polymorphism and systemic lupus erythematosus: a possible risk? *Lupus*. 2005;14(5):391-8.
36. Papoutsi Z, Kassi E, Tsipapara A, Fokialakis N, Chrouzos GP, **Moutsatsou P**. Evaluation of estrogenic/antiestrogenic activity of ellagic acid via the estrogen receptor subtypes ERalpha and ERbeta. *J Agric Food Chem*. 2005 Oct 5;53(20):7715-20.
37. Papoutsi Z, Kassi E, Papaevangelou D, Pratsinis H, Zoumpourlis V, Halabalaki M, Mitakou S, Kalofoutis A, **Moutsatsou P**. Plant 2-arylobenzofurans demonstrate a selective estrogen receptor modulator profile. *Steroids*. 2004 Oct-Nov;69(11-12):727-34.
38. Kassi E, Papoutsi Z, Fokialakis N, Messari I, Mitakou S, **Moutsatsou P**. Greek plant extracts exhibit selective estrogen receptor modulator (SERM)-like properties. *J Agric Food Chem*. 2004 Nov 17;52(23):6956-61.
39. Tsolakidou AF, Coulouheri SA, Trikkas G, **Moutsatsou P**. Gene analysis of the glucocorticoid receptor alpha in Alzheimer's disease. *Clin Chim Acta*. 2004 Nov;349(1-2):167-72.
40. Fountas L, Anapliotou M, Kominakis A, Sekeris CE, Kassi E, **Moutsatsou P**. Estrogen receptor alpha gene analysis in osteoporosis and familial osteoporosis. *Osteoporos Int*. 2004 Dec;15(12):948-56.
41. Tsolakidou AF, Coulouheri SA, Sekeris CE, **Moutsatsou P**. Application of denaturing gradient gel electrophoresis (DGGE) to screen for mutations of the human glucocorticoid receptor alpha gene (hGRalpha). *Clin Biochem*. 2003 Jun;36(4):305-11.
42. Douroudis K, Tarassi K, Ioannidis G, Giannakopoulos F, **Moutsatsou P**, Thalassinos N, Papasteriades C. Association of vitamin D receptor gene polymorphisms with bone mineral density in postmenopausal women of Hellenic origin. *Maturitas*. 2003 Jul 25;45(3):191-7.
43. Kassi E, **Moutsatsou P**, Sekeris CE, Moutsopoulos HM, Manoussakis MN. Oestrogen receptors in cultured epithelial cells from salivary glands of Sjogren's syndrome patients. *Rheumatology (Oxford)*. 2003 Sep;42(9):1120-2.
44. **Moutsatsou P**, Sekeris CE. Steroid receptors in the uterus: implications in endometriosis. *Ann N Y Acad Sci*. 2003 Nov;997:209-22.
45. Koufali MM, **Moutsatsou P**, Sekeris CE, Breen KC. The dynamic localization of the glucocorticoid receptor in rat C6 glioma cell mitochondria. *Mol Cell Endocrinol*. 2003 Nov 14;209(1-2):51-60.
46. Vasiliadi D, Gratsias Y, Tsagarakis S, Botoula E, Trivizas P, Thalassinos N, **Moutsatsou P**. Glucocorticoid sensitivity assessed in peripheral blood cells do not correlate with the feedback sensitivity of the hypothalamo-pituitary adrenal AXIS. *Hormones (Athens)*. 2002 Oct-Dec;1(4):233-8.
47. Evangelopoulos D, Alevizaki M, Lekakis J, Cimponeriu A, Papamichael C, Kominakis A, Kalofoutis A, **Moutsatsou P**. Molecular analysis of the estrogen receptor alpha gene in men with coronary artery disease: association with disease status. *Clin Chim Acta*. 2003 May;331(1-2):37-44.
48. Tsolakidou AF, Coulouheri SA, Sekeris CE, **Moutsatsou P**. Mutation detection of the human glucocorticoid receptor alpha gene area coding for the hormone-binding domain by denaturing gradient gel electrophoresis. *J Biochem Biophys Methods*. 2002 May 31;51(3):233-41.
49. Kassi EN, Vlachoyiannopoulos PG, Moutsopoulos HM, Sekeris CE, **Moutsatsou P**. Molecular analysis of estrogen receptor alpha and beta in lupus patients. *Eur J Clin Invest*. 2001 Jan;31(1):86-93.

50. **Moutsatsou P**, Psarra AM, Tsipara A, Paraskevakou H, Davaris P, Sekeris CE. Localization of the glucocorticoid receptor in rat brain mitochondria. *Arch Biochem Biophys.* 2001 Feb 1;386(1):69-78.
51. Malamitsi-Puchner A, Tziotis J, Evangelopoulos D, Fountas L, Vlachos G, Creatsas G, Sekeris CE, **Moutsatsou P**. Gene analysis of the N-terminal region of the estrogen receptor alpha in preeclampsia. *Steroids.* 2001 Sep;66(9):695-700.
52. Kasiotis KM, Magiatis P, Pratsinis H, Skaltsounis A, Abadji V, Charalambous A, **Moutsatsou P**, Haroutounian SA. Synthesis and biological evaluation of novel daunorubicin-estrogen conjugates. *Steroids.* 2001 Oct;66(10):785-91.
53. Halabalaki M, Aligiannis N, Papoutsi Z, Mitakou S, **Moutsatsou P**, Sekeris C, Skaltsounis AL. Three new arylobenzofurans from Onobrychis ebenoides and evaluation of their binding affinity for the estrogen receptor. *J Nat Prod.* 2000 Dec;63(12):1672-4.
54. **Moutsatsou P**, Tsolakidou A, Trikkas G, Troungos C, Sekeris CE. Glucocorticoid receptor alpha and beta isoforms are not mutated in bipolar affective disorder. *Mol Psychiatry.* 2000 Mar;5(2):196-202.
55. **Moutsatsou P**, Kazazoglou T, Fleischer-Lambropoulos H, Psarra AM, Tsipara A, Sekeris CE, Stefanis C, Vernadakis A. Expression of the glucocorticoid receptor in early and late passage C-6 glioma cells and in normal astrocytes derived from aged mouse cerebral hemispheres. *Int J Dev Neurosci.* 2000 Apr-Jun;18(2-3):329-35.
56. **Moutsatsou P**, Liakou K, Breen K, Cuckle H. Serum expression of sialyltransferase in normal and Down's syndrome-affected pregnancy. *Ann Clin Biochem.* 2000 Jul;37 (Pt 4):507-11.
57. Gratsias Y, **Moutsatsou P**, Chrysanthopoulou G, Tsagarakis S, Thalassinos N, Sekeris CE. Diurnal changes in glucocorticoid sensitivity in human peripheral blood samples. *Steroids.* 2000 Dec;65(12):851-6.
58. Fountas L, **Moutsatsou P**, Kastanias I, Tamouridis N, Tzanela M, Anapliotou M, Sekeris CE. The contribution of vitamin D receptor gene polymorphisms in osteoporosis and familial osteoporosis. *Osteoporos Int.* 1999;10(5):392-8.
59. **Moutsatsou P**, Fountas L, Coulocheri S, Kassi E, Sekeris CE. The oestrogen receptor codon 10 polymorphism detected in breast cancer is also present in non-malignant cells. *J Cancer Res Clin Oncol.* 1999;125(3-4):214-8.
60. **Moutsatsou P**, Kassi E, Creatsas G, Coulocheri S, Scheller K, Sekeris CE. Detection of oestrogen receptor variants in endometrium, myometrium, leiomyoma and peripheral blood mononuclear cells: comparison to variants present in breast cancer. *J Cancer Res Clin Oncol.* 1998;124(9):478-84.
61. **Moutsatsou P**, Sekeris CE. Estrogen and progesterone receptors in the endometrium. *Ann N Y Acad Sci.* 1997 Jun 17;816:99-115.
62. **Moutsatsou P**, Oakey RE. Oestriol binding to plasma proteins. *J Steroid Biochem.* 1988 Mar;29(3):319-323.
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