

Curriculum Vitae

PERSONAL INFORMATION

Name/Surname: **Constantinos Pantos**

Date & Place of Birth: 28/05/ 1960, Athens

Work Address : Micras Asias 75, Goudi, 11527

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Current Position

Professor of Pharmacology - Head of Department of Pharmacology
Department of Pharmacology, Medical School, University of Athens, Greece

Education

1988-1992, Training in Cardiology, Department of Cardiology, University Hospital & Middlesex, London, UK.

1978-1984, Degree in Medicine, University of Athens, Greece

Doctorate in Medicine (PhD)

‘Assessment of left ventricular function after thrombolysis in patients with myocardial infarction’, 1991, Medical School, University of Athens

Clinical And Academic Positions

A. ACADEMIC POSITIONS

2009- Associate Professor of Pharmacology, Medical School, University of Athens, Greece

2002-2008 Assistant Professor of Pharmacology, Medical School, University of Athens, Greece

1999-2002 Lecturer of Pharmacology, Medical School, University of Athens, Greece

B. CLINICAL POSITIONS

2014- Co-appointment in the 3rd University Cardiology Clinic for teaching, research and clinical work

1992-1999 Specialist Cardiologist in the Department of Cardiology, 1st Hospital of IKA

1988- 1992, Registrar in Cardiology, University College Hospital, London, UK.

TEACHING EXPERIENCE

Undergraduate courses

2014- Undergraduate courses in cardiology in medical students, 3rd University Cardiology Clinic

1998- Undergraduate courses in Cardiovascular Pharmacology, University of Athens, Greece

Postgraduate courses

2010- 2015 Courses in postgraduate program «Molecular and Applied Physiology» (Medical School, University of Athens)

2007-2008 Courses in postgraduate program «Cardiopulmonary Resuscitation» (Medical School, University of Athens)

2005-2015 Courses in postgraduate program «ICU- Cardiovascular Nursing» (Medical School, University of Athens)

2003-2006 Courses in postgraduate program «Clinical Pharmaceutics» (School of Pharmacy, University of Athens)

1999-2001 Courses in the postgraduate program «Clinical and Experimental Medicine» (Medical School, University of Athens)

Supervisor in PhD theses (NKUA)

- “The role of thyroid hormone in the adaptive response of myocardium to ischemic stress” 2015, Irimi Kostakou
- “Novel approaches in the pathophysiology of cardiac remodeling after myocardial infarction: Experimental study.” 2014 Polixeni Mantzouratou
- “The role of thyroid hormone in development of heart failure in an experimental model of myocardial infarction in rats.” 2013, Georgios Galanopoulos
- “Changes in thyroid hormones after acute myocardial infarction. Clinical and experimental.” 2013, Ioannis Lymvaivos

- “Mechanisms of interplay between beta-adrenergic system and thyroid hormone system in a model of isolated neonatal cardiomyocytes.” 2012, Danai Spanou
- “Mechanisms of interplay between alpha-adrenergic system and thyroid hormone system in a model of isolated neonatal cardiomyocytes.” 2012, Philippos Perimenis
- “Developmental mechanisms of adaptation-survival in the pathophysiology of diseases. Pharmacological implications.” 2009, Efstathia Politi
- “The role of thyroid hormone in regeneration of the sciatic nerve in Lewis rats” 2007 Ioannis Papakostas
- “The effect of high glucose concentration in cardioprotection in cell culture models.” 2006, Christodoulos Xinaris
- “Expression of heat shock proteins and protein kinases in pathological myocardium” 2006, Evangelia Karamanoli
- “Thyroid hormone and cardioprotection. The role of heat shock protein 27 (HSP27).” 2006, Iordanis Mourouzis
- “Mechanisms of endogenous protection of the hypertrophic myocardium against ischemia” 2004, Ioannis Paizis
- “Functional changes in rat aorta and the role of endothelium after thyroid hormone administration” 2001, Vasileios Tzilalis

Supervisor in PhD theses (UK)

- ‘The impact of diabetes on cardiac remodelling after myocardial infarction : potential role of thyroid hormone signalling’2012. C Kalofoutis. School of Pharmacy and Biomedical Sciences, University of Central Lancashire, Preston, UK & University of Athens
- ‘The role of Thyroid hormone in cardiac cell and glioma cancer cells differentiation’2012.A Liappas. School of Pharmacy and Biomedical Sciences, University of Central Lancashire, Preston, UK & University of Athens

CHAPTERS IN BOOKS

1. ‘**Thyroid and heart failure- from pathophysiology to clinics**’ Iervasi/Pingitore (Eds), Springer, 2008 Chapter by C Pantos, I Mourouzis, DV Cokkinos entitled Thyroid hormone and ischaemic myocardium
2. Editor in book: **Myocardial ischemia : from mechanisms to therapeutic potentials**’ Cokkinos/Pantos /Heusch /Taegtmeyer (Eds), Springer, 2006

RESEARCH INTERESTS

Main Research Interests

- The **role of thyroid hormone in tissue regeneration** (myocardium, neural tissue, pancreas, cancer)
- The role of **thyroid hormone receptor $\alpha 1$** as a pharmacological target **for tissue regeneration**
- Endogenous mechanisms of repair /regeneration after myocardial injury (experimental models of ischemia/reperfusion, in vivo myocardial infarction in rodents, cell cultures)

This research has resulted in a Phase II clinical trial (Thy-Repair) testing the effects of T3 on cardiac regeneration in patients with acute myocardial infarction. Thy-Repair has been approved by the *Greek Medicinal Agency* (4 April 2016, 21861) and registered in the European Clinical Trials Database of EMEA (EudraCT:2016-000631-40) and is under way.

Other

- Study of the role of old and new pharmacological interventions in tissue injury and repair/recovery (**ranolazine, amiodarone, dronedarone, trimetazidine, dobutamine, clenbuterol, phenylephrine, sildenafil, morphine**).
- **Computational modeling**
- **Clinical Trials**

Deanfield JE et al . Amlodipine reduces transient myocardial ischaemia in patients with coronary artery disease: double blind circadian anti -ischaemia program in Europe (CAPE trial). JACC, 1994, 24: 1460-7.

Detry JM et al . Trimetazidine : a new concept in the treatment of angina. Comparison with propranolol in patients with stable angina Br J Clin Pharmacol, 1994, 37:279-288.

Scrutinio D et al .Ticlopidine versus aspirin after myocardial infarction (STAMI) trial JACC , 2001, 37 :1259-65

Research Projects

- “Open semantically-enabled, social-aware access to scientific data” (OPENSOURCELINK), FP7 program, EU, (Coordinator: TUD, Germany), 2013-2016, **KA 12067**
- “Development of innovative diagnostic and therapeutic tools for cardiomyopathies and heart failure” 09ΣYN-21-965 GGET. (Coordinator: G. Capetanaki, IIBEAA), 2012-2015, **KA 11444**
- BIOASQ, FP7 program. EU, (Coordinator: TUD, Germany), 2013-2014, **KA 4634**
- The role of ranolazine in cardiac remodeling after acute myocardial infarction in normal and diabetic rats. Menarini International, Italy and Gilead Sciences (Fremont, Silicon Valley, USA), (2012) (Coordinator: C.Pantos) **KA 4634**
- “Efficient Patient Recruitment for Innovative Clinical Trials of Existing Drugs to other Indications” (PONTE), Program FP7, EU, (Coordinator: CETIC, Belgium), 2010-2013, **KA 10497**
- “The role of thyroid hormone in development of bio-engineered heart muscle from neonatal rat cardiomyocytes” NIARCHOS Foundation (2008), **KA 4634**
- Mechanisms of action of trimetazine in ischemia-reperfusion Research Laboratories Servier France (2002). (Coordinator: C.Pantos) **KA 4634**
- The role of renin-angiotensin system in thyroxine-induced hypertrophy and the response of the normal and hyperthyroid heart to ischemia after irbesartan treatment. Research Laboratories Sanofi- Aventis, (2001) Montpellier (Coordinator: C.Pantos) **KA 4634**
- The role of amiodarone and dronedarone in the response of the normal and hyperthyroid heart to ischemia. Research Laboratories Sanofi- Aventis, Montpellier (1999). (Coordinator: C.Pantos) **KA 4634**
- “Cardiac remodeling after myocardial infarction: Experimental study of different interventions in rat hearts and cardiomyocytes.” NIARCHOS Foundation (2006), **KA 4634**
- “Investigation of novel mechanisms of cardiac remodeling after myocardial infarction”, Hellenic Society of Cardiology (2006), **KA 4634**
- The response of the hypertrophic myocardium to ischemia and the role of ischemic preconditioning in cardiac hypertrophy GGET- Scientific and technological cooperation Greece-France (1996-1999) (Coordinator: C.Pantos) **KA 4634**

Peer review Publications in International Journals

1. Pantos C., Mourouzis I. *"Thyroid hormone and tissue repair"* Thyroid International 2016-1
2. Daskalopoulos EP, Vilaeti AD, Barka E, Mantzouratou P, Kouroupis D, Kontonika M, Tourmousoglou C, Papalois A, Pantos C, Blankesteyn WM, Agathopoulos S, Kolettis TM. Attenuation of post-infarction remodeling in rats by sustained myocardial growth hormone administration. *Growth Factors*. 2015 Aug 12;1-9.
3. Mourouzis I, Tzovaras A, Armonis B, Ardavanis A, Skondra M, Misitzis J, Pectasides D, Pantos C. Are Thyroid Hormone and Tumor Cell Proliferation in Human Breast Cancers Positive for HER2 Associated? *Int J Endocrinol*. 2015;2015:765406.
4. Pantos C, Mourouzis I. Translating thyroid hormone effects into clinical practice: the relevance of thyroid hormone receptor $\alpha 1$ in cardiac repair. *Heart Fail Rev*. 2015 May;20(3):273-82.
5. Mourouzis I, Pantos C. The Biomedical Data Journal in the New Era of Open Access to Scientific Information *Biomed Data J*. 2015; 1(1): 5-11
6. Angelopoulos T, Kokkinos A, Liaskos C, Tentolouris N, Alexiadou K, Miras AD, Mourouzis I, Perrea D, Pantos C, Katsilambros N, Bloom SR, le Roux CW. The effect of slow spaced eating on hunger and satiety in overweight and obese patients with type 2 diabetes mellitus. *BMJ Open Diabetes Res Care*. 2014 Jul 2;2(1):e000013.
7. Mourouzis I, Saranteas T, Ligeret H, Portal C, Perimenis P, Pantos C. Phenylephrine postconditioning increases myocardial injury: are alpha-1 sympathomimetic agonist cardioprotective? *Ann Card Anaesth*. 2014 Jul-Sep;17(3):200-9.
8. Pantos C, Mourouzis I. The vulnerable myocardium: need for a paradigm shift for the management of coronary artery disease? *Cardiology*. 2014;129(1):18-9.
9. Mourouzis I, Mantzouratou P, Galanopoulos G, Kostakou E, Dhalla AK, Belardinelli L, Pantos C. The beneficial effects of ranolazine on cardiac function after myocardial infarction are greater in diabetic than non-diabetic rats *Journal of Cardiovascular Pharmacology and Therapeutics*. 2014 Sep;19(5):457-69.
10. Pantos C, Mourouzis I. The emerging role of TR $\alpha 1$ in cardiac repair: potential therapeutic implications. *Oxidative Medicine and Cellular Longevity* 2014;2014:481482
11. Belló-Klein A, Khaper N, Llesuy S, Vassallo DV, Pantos C. Oxidative stress and antioxidant strategies in cardiovascular disease. *Oxid Med Cell Longev*.2014;2014:678741.
12. Loubopoulos A, Mourouzis I*, Karapanayiotides T, Nousiopolou E, Chatzigeorgiou S, Mavridis T, Kokkinakis I, Touloumi O, Irinopoulou T, Chouliaras K, Pantos C, Karacostas D, Grigoriadis N. Changes in thyroid hormone receptors after permanent cerebral ischemia in male rats. *J Mol Neurosci*. 2014 Sep;54(1):78-91.

13. Karmanioulou, I., Pantos, C., Orfanos, N., Mylonas, A., Theodoraki, K., Staikou, C., Stergiou, E., Kostopanagiotou, G., Smyrniotis, V., Arkadopoulos, N. Impact of thyroid hormone administration on fluid requirements and hepatic injury markers in hemorrhagic shock due to liver trauma. *Journal of Investigative Surgery*, 2013 Dec;26(6):305-11.
14. Mourouzis, I., Giagourta, I., Galanopoulos, G., Mantzouratou, P., Kostakou, E., Kokkinos, A.D., Tentolouris, N., Pantos, C. Thyroid hormone improves the mechanical performance of the post-infarcted diabetic myocardium: A response associated with up-regulation of Akt/mTOR and AMPK activation. *Metabolism: Clinical and Experimental*, 2013 Oct;62(10):1387-93.
15. Adamopoulos, S., Gouziouta, A., Mantzouratou, P., Laoutaris, I.D., Dritsas, A., Cokkinos, D.V., Mourouzis, I., Sfyarakis, P., Iervasi, G., Pantos, C. Thyroid hormone signalling is altered in response to physical training in patients with end-stage heart failure and mechanical assist devices: Potential physiological consequences? *Interactive Cardiovascular and Thoracic Surgery*, 2013 Oct;17(4):664-8.
16. Mourouzis I, Kostakou E, Galanopoulos G, Mantzouratou P, Pantos C. Inhibition of thyroid hormone receptor $\alpha 1$ impairs post-ischemic cardiac performance after myocardial infarction in mice. *Mol Cell Biochem*. 2013 Jul;379(1-2):97-105
17. Strilakou, A.A., Lazaris, A.C., Perelas, A.I., Mourouzis, I.S., Douzis, I.C., Karkalousos, P.L., Stylianaki, A.T., Pantos, C.I., Liapi, C.A. Heart dysfunction induced by choline-deficiency in adult rats: The protective role of l-Carnitine *European Journal of Pharmacology*, 2013 Jun 5;709(1-3):20-7.
18. Vilaeti, A.D., Dimos, K., Lampri, E.S., Mantzouratou, P., Tsitou, N., Mourouzis, I., Oikonomidis, D.L., Papalois, A., Pantos, C., Malamou-Mitsi, V., Agathopoulos, S., Kolettis, T.M. Short-term ventricular restraint attenuates post-infarction remodeling in rats. *International Journal of Cardiology*, 2013 May 10;165(2):278-84.
19. Mourouzis, I., Politi, E., Pantos, C. Thyroid hormone and tissue repair: New tricks for an old hormone? *Journal of Thyroid Research*, 2013;2013:312104.
20. Vasiliadis, I., Kolovou, G., Kolovou, V., Giannakopoulou, V., Boutsikou, M., Katsiki, N., Papadopoulou, E., Mavrogeni, S., Sorontila, K., Pantos, C., Cokkinos, D.V. Gene polymorphisms and thyroid function in patients with heart failure. *Endocrine*, 2014 Feb;45(1):46-54.
21. Liappas, A., Mourouzis, I., Zisakis, A., Economou, K., Lea, R.-W., Pantos, C. Erratum: Cell-type-dependent thyroid hormone effects on glioma tumor cell lines. *Journal of Thyroid Research*, 2011;2011:856050.
22. Spanou, D., Perimenis, P., Mantzouratou, P., Gomatos, C., Cokkinos, D., Mourouzis, I., Pantos, C. Clenbuterol favorably remodels neonatal cardiac cells via activation of p38 MAPK signalling pathway. *Journal of Cardiovascular Surgery*, 2012 Dec;53(6):789-95.
23. Pantos, C., Mourouzis, I., Cokkinos, D.V. Thyroid hormone and cardiac repair/regeneration: From Prometheus myth to reality? *Canadian Journal of Physiology*

and Pharmacology, 2012 Aug;90(8):977-87.

24. Mourouzis, I., Mantzouratou, P., Galanopoulos, G., Kostakou, E., Roukounakis, N., Kokkinos, A.D., Cokkinos, D.V., Pantos, C. Dose-dependent effects of thyroid hormone on post-ischemic cardiac performance: Potential involvement of Akt and ERK signaling. *Molecular and Cellular Biochemistry*, 2012 Apr;363(1-2):235-43.
25. Mourouzis, I., Forini, F., Pantos, C., Iervasi, G. Thyroid hormone and cardiac disease: From basic concepts to clinical application. *Journal of Thyroid Research*, 2011, 2011;2011:958626 .
26. Pantos, C., Mourouzis, I., Saranteas, T., Brozou, V., Galanopoulos, G., Kostopanagiotou, G., Cokkinos, D.V. Acute T3 treatment protects the heart against ischemia-reperfusion injury via TR α 1 receptor (2011) *Molecular and Cellular Biochemistry*, 353 (1-2), pp. 235-241.
27. Lymvaivos, I., Mourouzis, I., Cokkinos, D.V., Dimopoulos, M.A., Toumanidis, S.T., Pantos, C. Thyroid hormone and recovery of cardiac function in patients with acute myocardial infarction: A strong association? (2011) *European Journal of Endocrinology*, 165 (1), pp. 107-114.
28. Pantos, C., Mourouzis, I. Comment: Worsening heart failure in the setting of dronedarone initiation (2011) *Annals of Pharmacotherapy*, 45 (5), p. 690.
29. Cokkinos, D.V., Pantos, C. Type 1 diabetes impairs compensatory response after myocardial infarction; role of tissue hypothyroidism and effects of thyroid hormone administration [Le diabète de type 1 diminue la réponse compensatrice après un infarctus du myocarde. Rôle de l'hypothyroïdie tissulaire et effets de l'administration d'hormones thyroïdiennes] (2011) *Bulletin de l'Académie Nationale de Médecine*, 195 (1), pp. 151-165.
30. Pantos, C., Mourouzis, I., Cokkinos, D.V. New insights into the role of thyroid hormone in cardiac remodeling: Time to reconsider? (2011) *Heart Failure Reviews*, 16 (1), pp. 79-96.
31. Cokkinos, D.V., Pantos, C. Myocardial remodeling, an overview (2011) *Heart Failure Reviews*, 16 (1), pp. 1-4.
32. Kalofoutis, C., Mourouzis, I., Galanopoulos, G., Dimopoulos, A., Perimenis, P., Spanou, D., Cokkinos, D.V., Singh, J., Pantos, C. Thyroid hormone can favorably remodel the diabetic myocardium after acute myocardial infarction (2010) *Molecular and Cellular Biochemistry*, 345 (1-2), pp. 161-169.
33. Kapatou, E., Skyrilas, A., Agelaki, M.G., Pantos, C., Kolettis, T.M., Malamou-Mitsi, V. Amiodarone attenuates apoptosis, but induces phospholipidosis in rat alveolar epithelial cells (2010) *Journal of Physiology and Pharmacology*, 61 (6), pp. 671-677.
34. Pantos, C., Mourouzis, I., Galanopoulos, G., Gavra, M., Perimenis, P., Spanou, D., Cokkinos, D.V. Thyroid hormone receptor 1 downregulation in postischemic heart failure progression: The potential role of tissue hypothyroidism (2010) *Hormone and Metabolic Research*, 42 (10), pp. 718-724.

35. Pantos, C., Cokkinos, D.V. Thyroid hormone: An old drug to new indications (2010) *Vascular Pharmacology*, 52 (3-4), p. 101.
36. Pantos, C., Mourouzis, I., Cokkinos, D.V. Thyroid hormone as a therapeutic option for treating ischaemic heart disease: From early reperfusion to late remodeling (2010) *Vascular Pharmacology*, 52 (3-4), pp. 157-165.
37. Pantos, C., Mourouzis, I., Cokkinos, D.V. Rebuilding the post-infarcted myocardium by activating 'physiologic' hypertrophic signaling pathways: The thyroid hormone paradigm (2010) *Heart Failure Reviews*, 15 (2), pp. 143-154.
38. Kolettis, T.M., Kontaras, K., Spartinos, I., Maniotis, C., Varnavas, V., Koutouzis, M., Mourouzis, I., Papalois, A., Pantos, C., Kyriakides, Z.S. Dose-dependent effects of sildenafil on post-ischaemic left ventricular function in the rat isolated heart (2010) *Journal of Pharmacy and Pharmacology*, 62 (3), pp. 346-351.
39. Kostopanagiotou, G., Kalimeris, K., Christodoulaki, K., Nastos, C., Papoutsidakis, N., Dima, C., Chrelias, C., Pandazi, A., Mourouzis, I., Pantos, C. The differential impact of volatile and intravenous anaesthetics on stress response in the swine (2010) *Hormones*, 9 (1), pp. 67-75.
40. Gibiino S., Liappas I., Zisakis A.K., Zisaki A., Liappas A., Kalofoutis A., Lea R.W., Pantos C., Serretti A. Myelination hypothesis in Schizophrenia: Role of thyroid hormones from preclinical evidence to therapy suggestions. *Clinical Neuropsychiatry* 2010;7(3):121-130
41. Pappas, M., Mourouzis, K., Karageorgiou, H., Tesseromatis, C., Mourouzis, I., Kostopanagiotou, G., Pantos, C., Cokkinos, D.V. Thyroid hormone modulates the responsiveness of rat aorta to α 1-adrenergic stimulation: An effect due to increased activation of β 2-adrenergic signaling (2009) *International Angiology*, 28 (6), pp. 474-478.
42. Kostopanagiotou, G., Kalimeris, K., Mourouzis, I., Costopanagiotou, C., Arkadopoulos, N., Panagopoulos, D., Papoutsidakis, N., Chranioti, A., Pafiti, A., Spanou, D., Smyrniotis, V., Pantos, C. Thyroid hormones alterations during acute liver failure: Possible underlying mechanisms and consequences (2009) *Endocrine*, 36 (2), pp. 198-204.
43. Pantos, C., Mourouzis, I., Tsagoulis, N., Markakis, K., Galanopoulos, G., Roukounakis, N., Perimenis, P., Liappas, A., Cokkinos, D.V. Thyroid hormone at supra-physiological dose optimizes cardiac geometry and improves cardiac function in rats with old myocardial infarction (2009) *Journal of Physiology and Pharmacology*, 60 (3), pp. 49-56.
44. Cokkinos, D.V., Pantos, C. Thyroid hormones and their action on the myocardium [Les hormones thyroïdiennes, action sur le myocarde] (2009) *Bulletin de l'Academie Nationale de Medecine*, 193 (2), pp. 327-338.
45. Mourouzis, I., Dimopoulos, A., Saranteas, T., Tsinarakis, N., Livadarou, E., Spanou, D., Kokkinos, A.D., Xinaris, C., Pantos, C., Cokkinos, D.V. Ischemic preconditioning

fails to confer additional protection against ischemia-reperfusion injury in the hypothyroid rat heart (2009) *Physiological Research*, 58 (1), pp. 29-38.

46. Mourouzis, L., Saranteas, T., Perimenis, P., Tesseromatis, C., Kostopanagiotou, G., Pantos, C., Cokkinos, D.V. Morphine administration at reperfusion fails to improve postischaemic cardiac function but limits myocardial injury probably via heat-shock protein 27 phosphorylation (2009) *European Journal of Anaesthesiology*, 26 (7), pp. 572-581.
47. Papakostas, I., Mourouzis, I., Mourouzis, K., Macheras, G., Boviatsis, E., Pantos, C. Functional effects of local thyroid hormone administration after sciatic nerve injury in rats (2009) *Microsurgery*, 29 (1), pp. 35-41.
48. Pantos, C., Mourouzis, I., Saranteas, T., Clavé, G., Ligeret, H., Noack-Fraissignes, P., Renard, P.-Y., Massonneau, M., Perimenis, P., Spanou, D., Kostopanagiotou, G., Cokkinos, D.V. Thyroid hormone improves postischaemic recovery of function while limiting apoptosis: A new therapeutic approach to support hemodynamics in the setting of ischaemia-reperfusion? (2009) *Basic Research in Cardiology*, 104 (1), pp. 69-77.
49. Pantos, C., Xinaris, C., Mourouzis, I., Kokkinos, A.D., Cokkinos, D.V. TNF- α administration in neonatal cardiomyocytes is associated with differential expression of thyroid hormone receptors: A response prevented by T3 (2008) *Hormone and Metabolic Research*, 40 (10), pp. 731-734.
50. Pantos, C., Mourouzis, I., Markakis, K., Tsagoulis, N., Panagiotou, M., Cokkinos, D.V. Long-term thyroid hormone administration reshapes left ventricular chamber and improves cardiac function after myocardial infarction in rats (2008) *Basic Research in Cardiology*, 103 (4), pp. 308-318.
51. Pantos, C., Xinaris, C., Mourouzis, I., Perimenis, P., Politi, E., Spanou, D., Cokkinos, D.V. Thyroid hormone receptor $\alpha 1$: A switch to cardiac cell "metamorphosis"? (2008) *Journal of Physiology and Pharmacology*, 59 (2), pp. 253-269.
52. Pantos, C., Mourouzis, I., Xinaris, C., Papadopoulou-Daifoti, Z., Cokkinos, D. Thyroid hormone and "cardiac metamorphosis": Potential therapeutic implications (2008) *Pharmacology and Therapeutics*, 118 (2), pp. 277-294.
53. Pantos, C., Mourouzis, I., Xinaris, C., Cokkinos, D.V. Thyroid hormone and myocardial ischaemia (2008) *Journal of Steroid Biochemistry and Molecular Biology*, 109 (3-5), pp. 314-322.
54. Halapas, A., Lembessis, P., Mourouzis, I., Pantos, C., Cokkinos, D.V., Sourla, A., Koutsilieris, M. Experimental hyperthyroidism increases expression of parathyroid hormone-related peptide and type-1 parathyroid hormone receptor in rat ventricular myocardium of the Langendorff ischaemia-reperfusion model (2008) *Experimental Physiology*, 93 (2), pp. 237-246.
55. Pantos, C., Mourouzis, I., Cokkinos, D.V. Protection of the abnormal heart. (2007) *Heart Failure Reviews*, 12 (3-4), pp. 319-330.
56. Cokkinos, D.V., Pantos, C. Myocardial protection in man - From research concept to

clinical practice (2007) *Heart Failure Reviews*, 12 (3-4), pp. 345-362.

57. Kolettis, T.M., Agelaki, M.G., Baltogiannis, G.G., Vlahos, A.P., Mourouzis, I., Fotopoulos, A., Pantos, C. Comparative effects of acute vs. chronic oral amiodarone treatment during acute myocardial infarction in rats (2007) *Europace*, 9 (11), pp. 1099-1104.
58. Pantos, C., Dritsas, A., Mourouzis, I., Dimopoulos, A., Karatasakis, G., Athanassopoulos, G., Mavrogeni, S., Manginas, A., Cokkinos, D.V. Thyroid hormone is a critical determinant of myocardial performance in patients with heart failure: Potential therapeutic implications (2007) *European Journal of Endocrinology*, 157 (4), pp. 515-520.
59. Pantos, C., Mourouzis, I., Markakis, K., Dimopoulos, A., Xinaris, C., Kokkinos, A.D., Panagiotou, M., Cokkinos, D.V. Thyroid hormone attenuates cardiac remodeling and improves hemodynamics early after acute myocardial infarction in rats (2007) *European Journal of Cardio-thoracic Surgery*, 32 (2), pp. 333-339.
60. Carageorgiou, H., Pantos, C., Zarros, A., Stolakis, V., Mourouzis, I., Cokkinos, D., Tsakiris, S. Changes in acetylcholinesterase, Na⁺,K⁺-ATPase, and Mg²⁺-ATPase activities in the frontal cortex and the hippocampus of hyper- and hypothyroid adult rats (2007) *Metabolism: Clinical and Experimental*, 56 (8), pp. 1104-1110.
61. Kokkinos, A., Mourouzis, I., Kyriaki, D., Pantos, C., Katsilambros, N., Cokkinos, D.V. Possible implications of leptin, adiponectin and ghrelin in the regulation of energy homeostasis by thyroid hormone (2007) *Endocrine*, 32 (1), pp. 30-32.
62. Pantos, C., Mourouzis, I., Dimopoulos, A., Markakis, K., Panagiotou, M., Xinaris, C., Tzeis, S., Kokkinos, A.D., Cokkinos, D.V. Enhanced tolerance of the rat myocardium to ischemia and reperfusion injury early after acute myocardial infarction (2007) *Basic Research in Cardiology*, 102 (4), pp. 327-333.
63. Agelaki, M.G., Pantos, C., Korantzopoulos, P., Tsalikakis, D.G., Baltogiannis, G.G., Fotopoulos, A., Kolettis, T.M. Comparative antiarrhythmic efficacy of amiodarone and dronedarone during acute myocardial infarction in rats (2007) *European Journal of Pharmacology*, 564 (1-3), pp. 150-157.
64. Pantos, C., Mourouzis, I., Xinaris, C., Kokkinos, A.D., Markakis, K., Dimopoulos, A., Panagiotou, M., Saranteas, T., Kostopanagiotou, G., Cokkinos, D.V. Time-dependent changes in the expression of thyroid hormone receptor $\alpha 1$ in the myocardium after acute myocardial infarction: Possible implications in cardiac remodeling (2007) *European Journal of Endocrinology*, 156 (4), pp. 415-424.
65. Carageorgiou, H., Pantos, C., Zarros, A., Stolakis, V., Mourouzis, I., Cokkinos, D., Tsakiris, S. Effects of hyper- and hypothyroidism on acetylcholinesterase, (Na⁺, K⁺)- and Mg²⁺ -ATPase activities of adult rat hypothalamus and cerebellum (2007) *Metabolic Brain Disease*, 22 (1), pp. 31-38.
66. Saranteas, T., Tachmintzis, A., Katsikeris, N., Lykoudis, E., Mourouzis, I., Anteriotis, D., Alexopoulos, C., Dimakopoulou, A., Dimitriou, V., Pantos, C., Tesseromatis, C. Perioperative Thyroid Hormone Kinetics in Patients Undergoing Major Oral and

Maxillofacial Operations (2007) *Journal of Oral and Maxillofacial Surgery*, 65 (3), pp. 408-414.

67. Pantos, C., Xinaris, C., Mourouzis, I., Malliopoulou, V., Kardami, E., Cokkinos, D.V. Thyroid hormone changes cardiomyocyte shape and geometry via ERK signaling pathway: Potential therapeutic implications in reversing cardiac remodeling? (2007) *Molecular and Cellular Biochemistry*, 297 (1-2), pp. 65-72.
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Abstracts in international congresses

1. Mourouzis I., Mantzouratou P., Galanopoulos G., Kostakou E., Dhalla A.K., Belardinelli L., Pantos C. *“The beneficial effects of ranolazine on cardiac function after myocardial infarction are greater in diabetic than non-diabetic rats”* 6th Annual Meeting, Diabetes and Cardiovascular Disease Study Group, October 31-Nov 2, Prague, Czech Republic
2. Adamopoulos S, Cokkinos DV, Gouziouta A, Mantzouratou P, Kostakou E, Laoutaris ID, Dritsas A, Mourouzis I, Sfyraakis P, Iervasi G, Pantos C. Exercise Training Up-Regulates Physiological Growth Signalling in the Myocardium of Patients with Mechanical Circulatory Support: Relevance to Functional Recovery. 62nd Annual Scientific Sessions ACC, *Journal of the American College of Cardiology* 2013, Vol. 61, Issue 10, Supplement, Page E666.

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PUBLICATIONS

Peer review Publications in International Journals (total): **101**
Original Research: **78** Review: **18** Letters & commentaries: **5**

Abstracts in international journals: **40**

IMPACT FACTOR (IF²⁰¹⁶) total: **284.5** - mean: **2.82**

H-INDEX : 28 (SCOPUS)

CITATIONS: 1901 (SCOPUS)

1st author: **47**,

2nd author: **6**.

Last author: **23**

Invited Speaker in international scientific meetings and congresses

1. ***“Novel pharmacological targets for cardiac repair/regeneration : the thyroid hormone alpha 1 (TRa1) receptor.”*** Invited lecture in JCET, 6 September 2015, Kraków, Poland
2. ***“TRa1: the secret player in tissue repair”*** International Symposium on Translating thyroid hormone action in non-thyroid care setting: Current options and future perspectives. 11 June 2015, Delphi, Greece.
3. ***“Hyperthyroidism and cardiac remodeling”*** Past, Present and Future, International Conference commemorating the 50 Years Anniversary of the ETA, 12-13 June 2015, Delphi, Greece
4. ***“Myocardial Ischaemia & Diabetes: Common therapeutic target”*** Stable Coronary Artery Disease in the Era of Evidenced based Medicine, A jointly organized CME project of ESC and National Cardiac Societes, 21 June 2014, Athens, Greece.
5. ***“Thyroid hormone receptor $\alpha 1$ and cardiac repair”*** Guest lecture – Graduate School of Endocrinology, Institute of experimental endocrinology, Charite University, June 4 2014, Berlin, Germany
6. ***“The beneficial effects of ranolazine on cardiac function after myocardial infarction are greater in diabetic than non-diabetic rats”*** 6th Annual Meeting, Diabetes and Cardiovascular Disease Study Group, October 31-Nov 2 2013, Prague, Czech Republic
7. ***“Thyroid hormone and cardiac regeneration”*** XLVII Annual meeting of the Brazilian Society of Physiology, Sept , 2-5, 2012, Gramado, Brazil
8. ***“The response of the diabetic heart to ischemic stress: novel pathophysiological mechanisms”***. June ,15-16, 2012, Sofia, Boulgaria
9. ***“Thyroid hormone to repair the ischemic myocardium: cure than delay the disease”*** EU OPEN DAY CUH, January 31, 2012, Cambridge, UK
10. ***“Novel therapeutic approaches to glioma tumours : the thyroid hormone paradigm.”*** Research Seminar, University of Central Lancashire, School of Pharmacy and Biomedical Sciences, 27th January 2012, Preston, UK
11. ***“Thyroid Hormone, a Regulator of Physiologic Growth for Rebuilding the***

Ischaemic Myocardium” ISHR meeting, Haifa 2011, Israel

12. “*Thyroid hormone and cardiac regeneration*” Winnipeg HEART International Conference, October 2011, Canada
13. “*Thyroid hormone and cardiac regeneration: From Prometheus myth to reality?*” Thyroid-Heart Failure Round Table at Old Westbury NY December 2011, USA
14. “*Thyroid hormone and ischaemic myocardium*”. 28^o ISHR meeting , Athens, 2008
15. “*Trimetazidine cardioprotection against ischaemia and reperfusion injury*” 28^o ISHR meeting , Athens, 2008
16. “*Thyroid hormone and myocardial ischemia*”. 12^o International Congress on Hormonal steroids and Cancer, Athens, 2006.
17. “*Thyroid hormone receptor $\alpha 1$: a novel pharmacological target*”, Special Lab Seminars, Division of Cardiology, University of Texas, Houston, USA, 2005.
18. “*Thyroid hormone and cardioprotection*”, συμπόσιο (Targeting nuclear receptors in the cardiovascular system ; novel approaches to the treatment of cardiovascular disease), 22^o European Congress of ISHR, 2002.
19. “*Ischemic preconditioning in cardiac hypertrophy*”, συμπόσιο (surgical aspects of heart failure), XV World Congress of ISHR, 1995.

Congress Organisation

- 2015 Organization of international meeting entitled «*Translating thyroid hormone action in non-thyroid care setting: Current options and future perspectives*» under the auspices of European Thyroid Association (Delphi, Greece)
- 2008 Organization of the Congress of *International Society of Heart Research* European Section (Athens).
- 2002-2009: Organization of ‘*Athens Exchange of Cardiovascular Research Ideas*’ (Workshop): Annual international scientific meetings under the auspices of International Society for Heart Research, department of Pharmacology and Hellenic Cardiology Society (Athens, Greece).

Editorial Board

Editor in Chief of the “Biomedical Data Journal”
Associate Editor of the “International Endocrinology”
Invited Reviewer of the “Critical Care Medicine”

Editor in Special Issues

- Guest Editor in Oxid Med Cell Longev, 2014 Special Issue on “Oxidative Stress and Antioxidant Strategies in Cardiovascular Disease”
- Guest Editor in Journal of Thyroid Research, 2013, Special Issue on “Thyroid hormone and tissue repair”
- Guest Editor in Heart Failure Rev, 2010, Special Issue on “Thyroid hormone and the heart”
- Guest Editor in Vascular Pharmacology, 2010, Special Issue on “Thyroid hormone: An old drug to new indications”

Reviewer in International Journals:

Journal of Thyroid Research, Oxidative Medicine and Cellular Longevity, Heart Failure Reviews, Free Radical Biology and Medicine, Critical Care Medicine, Journal of Endocrinology, Molecular and Cellular Biochemistry, PLOS one, Molecular Medicine, Journal of Physiology and Pharmacology, FASEB Journal, Cell & Tissue research, American Journal of Physiology, Acta Physiologica, European Journal of Endocrinology, British Journal of Pharmacology, Molecular Cellular Endocrinology, Molecular Endocrinology, Molecular Medicine, Journal of Molecular Endocrinology, Current Topics in Medicinal Chemistry, Cardiovascular Drugs and Therapy, Journal of Translational Medicine, Journal of Cellular Physiology, Journal of the American College of Cardiology, Life Sciences, International Journal of Cardiology, The American Journal of the Medical Sciences, Annals of Medicine, Journal of Pharmacy and Pharmacology, Vascular Pharmacology, BMC Cardiovascular Disorders

External Evaluator for Research Funding Organizations

Executive Board of the Austrian Science Fund (2013)
National Medical Research Council (Singapore) (2006)
Netherlands Organization for Scientific Research, MEERVOUD projects (2005)

Scientific Societies

- 2013- Member of the board of the International Society of Heart Research (European Section)

- 2006-2008, President of the basic research working group of Greek Society of Cardiology
- 1996- 2000 Member of the Scientific Committee of the European Society of Cardiology

Research Collaborations

- Gilead Sciences , Fremont, Silicon Valley , USA (Dr A. DHALLA, PROF L. BELARDINELI)
- CNR, Pisa, Italy (Dr. G. IERVASI)
- School of Forensic and Investigative Science, University of Central Lancashire, Preston, UK (PROF. J. SINGH)
- King's College London, UK (PROF. M. MARBER)
- Inserm Institute, Paris, France, (DR. B. SWYNGHEDAUF)
- School of Pharmacy and Biomedical Sciences, University of Central Lancashire, Preston, UK (PROF. R. LEA)
- Quidd, Rouen, France (DR HEIDI LIGERET)
- Department of Human Anatomy and Cell Science and Physiology, St. Boniface Research Centre, Institute of Cardiovascular Sciences, University of Manitoba, Winnipeg, Canada (PROF. E. KARDAMI)
- SANOFI-AVENTIS, FRANCE (DR. D. NISATO)
- SERVIER, FRANCE (DR A. Bescond-Jacquet)
- MENARINI INTERNATIONAL