

Personal Information

Name-Surname: Christodoulos Xinaris

Education

- 2002-2007** PhD, Department of Experimental Pharmacology, Medical School of Athens, National and Kapodistrian University of Athens, Greece
- 1996-2001** BSc degree in Biology, Department of Biology, National and Kapodistrian University of Athens, Greece

Professional Appointments

- 2010-today Group Leader**, Istituto di Ricerche Farmacologiche Mario Negri, Italy
- 2008-2010 Marie Curie Post-doctoral Fellow**, Istituto di Ricerche Farmacologiche Mario Negri, Italy
- 2007-2008 Post-doctoral Fellow**, Medical School of Athens, National and Kapodistrian University of Athens, Greece

Publications

1. Benedetti V, Brizi V and **Xinaris C**¹. Generation of functional kidney organoids in vivo starting from a single-cell suspension. *Methods Mol Biol.* 2016 Aug 19. [Epub ahead of print]
2. Ciampi O, Iacone R, Longaretti L, Benedetti V, Graf M, Magnone MC, Patsch C, **Xinaris C** et al. Generation of functional podocytes from human induced pluripotent stem cells. *Stem Cell Res.* 2016 Jun 3;17 (1):130-139
3. **Xinaris C**¹ et al. Functional human podocytes generated in organoids from amniotic fluid stem cells, *J Am Soc Nephrol.* 2015 Oct 29²
4. **Xinaris C**¹, Brizi V and Remuzzi G. Organoid models and applications in biomedical research. *Nephron* 2015;130(3):191-9
5. Imberti B, Corna D, Rizzo P, **Xinaris C**, et al. Renal primordia activate kidney regeneration in a rat model of progressive renal disease. *PLoS One.* 2015 Mar 26;10 (3):e0120235
6. Imberti B, Tomasoni S, Ciampi O, Pezzotta A, Derosas M, **Xinaris C**, et al Renal progenitors derived from human induced Pluripotent Stem Cells engraft and restore function in a mouse model of acute kidney injury, *Sci Rep.* 2015 Mar 6;5:8826
7. Papadimou E, Morigi M, **Xinaris C**, et al. Direct Reprogramming of human mesenchymal stem cells into functional renal cells using cell-free extracts. *Stem Cell Reports.* 2015 Mar 4. pii: S2213-6711(15)00058-2
8. **Xinaris C**¹ and Yokoo T. Reforming the kidney starting from a single-cell suspension. *Nephron Exp Nephrol.* 2014; 126 (2): 107. Invited review

¹ Corresponding Author

² This article was highlighted by an Editorial in *J Am Soc Nephrol* 2015

9. **Xinaris C¹** et al. A novel strategy to enhance Mesenchymal Stem Cell migration capacity and promote tissue repair in an organ specific fashion³, *Cell Transplant*. 2013; 22 (3): 423-36).
10. **Xinaris C¹** et al. In vivo maturation of functional renal organoids formed from embryonic cell suspensions⁴, *J Am Soc Nephrol*. 2012 Nov; 23(11): 1857-68.
11. Rota C, Imberti B, Pozzobon M, Piccoli M, De Coppi P, Atala A, Gagliardini E, **Xinaris C**, et al. Human amniotic fluid stem cell preconditioning Improves their regenerative potential. *Stem Cells Dev*. 2012 Jul 20; 21(11): 1911-23.
12. Mourouzis I, Dimopoulos A, Saranteas T, Tsinarakis N, Livadarou E Spanou D, Kokkinos AD, **Xinaris C**, et al. Ischemic preconditioning fails to confer additional protection against ischemia-reperfusion injury in the hypothyroid rat heart. *Physiol Res*. 2009; 58(1): 29-38.
13. Pantos C, **Xinaris C** et al. Thyroid hormone receptor alpha 1: a switch to cardiac cell "metamorphosis"? *J Physiol Pharmacol*. 2008 Jun; 59 (2): 253-69.
14. Pantos C, **Xinaris C** et al. TNF-alpha administration in neonatal cardiomyocytes is associated with differential expression of thyroid hormone receptors: a response prevented by T3. *Horm Metab Res*. 2008 Oct; 40(10): 731-4.
15. Pantos C, Mourouzis I, **Xinaris C** et al. Thyroid hormone and "cardiac metamorphosis": potential therapeutic implications. *Pharmacol Ther*. 2008 May; 118(2): 277-94.
16. Pantos C, Mourouzis I, **Xinaris C** et al. Thyroid hormone and myocardial ischaemia. *J Steroid Biochem Mol Biol*. 2008 Apr; 109(3-5): 314-22.
17. Pantos C, Mourouzis I, Markakis K, Dimopoulos A, **Xinaris C** et al. Thyroid hormone attenuates cardiac remodeling and improves hemodynamics early after acute myocardial infarction in rats. *Eur J Cardiothorac Surg*. 2007 Aug; 32(2): 333-9.
18. Pantos C, Mourouzis I, **Xinaris C** et al. Time-dependent changes in the expression of thyroid hormone receptor alpha 1 in the myocardium after acute myocardial infarction: possible implications in cardiac remodelling. *Eur J Endocrinol*. 2007 Apr; 156(4): 415-24.
19. Pantos C, Mourouzis I, Dimopoulos A, Markakis K, Panagiotou M, **Xinaris C** et al. Enhanced tolerance of the rat myocardium to ischemia and reperfusion injury early after acute myocardial infarction. *Basic Res Cardiol*. 2007 Jul; 102 (4): 327-33.
20. Pantos C, Mourouzis I, Paizis I, Malliopoulou V, **Xinaris C** et al. Pharmacological inhibition of TRalpha1 receptor potentiates the thyroxine effect on body weight reduction in rats: potential therapeutic implications in controlling body weight. *Diabetes Obes Metab*. 2007 Jan; 9(1):136-8.
21. Pantos C, **Xinaris C** et al. Thyroid hormone changes cardiomyocyte shape and geometry via ERK signaling pathway: potential therapeutic implications in reversing cardiac remodeling?. *Mol Cell Biochem*. 2007 Mar;297(1-2):65-72.
22. Pantos C, Malliopoulou V, Mourouzis I, Thempeyioti A, Paizis I, Dimopoulos A, Saranteas T, **Xinaris C**, Cokkinos DV. Hyperthyroid hearts display a phenotype of cardioprotection against ischemic stress: a possible involvement of heat shock protein 70. *Horm Metab Res*. 2006 May;38(5):308-13.

¹ Corresponding Author

³ This article was the most downloaded article that was published in 2013 in *Cell Transplantation*

⁴ This article was highlighted by an Editorial in *J Am Soc Nephrol* 2012

23. Malliopoulos V, **Xinaris C** et al. High glucose protects embryonic cardiac cells against simulated ischemia. *Mol Cell Biochem.* 2006 Mar;284(1-2):87-93.
24. Pantos C, Mourouzis I, Saranteas T, Paizis I, **Xinaris C** et al. Thyroid hormone receptors alpha1 and beta1 are downregulated in the post-infarcted rat heart: consequences on the response to ischaemia-reperfusion. *Basic Res Cardiol.* 2005 Sep;100(5):422-32.
25. Pantos C, Malliopoulos V, Mourouzis I, Sfakianoudis K, Tzeis S, Doumba P, **Xinaris C** et al. Propylthiouracil-induced hypothyroidism is associated with increased tolerance of the isolated rat heart to ischaemia-reperfusion. *J Endocrinol.* 2003 Sep; 178(3): 427-35.

Selected Talks

1. **Xinaris C.** Functional renal structures generated in organoids from amniotic stem cells, American Society of Nephrology's Kidney Week 2016, Invited Lecture
2. **Xinaris C.** [Engineering functional kidney tissue from single cell suspensions](#), University of Bristol, Bristol 2015, Invited Lecture.
3. **Xinaris C.**, Collaboration opportunities between China and Mario Negri Institute in kidney research, Sino-European Symposium on Innovative Kidney Research, Guangzhou and Hong Kong, China, September 2015, Invited Talk.
4. **Xinaris C.** Will we be able to create artificial organs? Workshop on Artificial Life and Evolutionary Computation, 2015, University of Bari, Invited lecture.
5. **Xinaris C.** [Dynamic Biology: stem cells, developmental engineering and "man-made" organs](#), St George's Medical School of University of London and the University of Nicosia, Nicosia 2015, Invited Lecture.
6. **Xinaris C.** [In vivo maturation of functional renal organoids formed from embryonic cell suspensions](#), 51st European Renal Association – European Dialysis and Transplant Association (ERA-EDTA) Congress, Amsterdam 2014, Invited Lecture.
7. **Xinaris C.** Growing kidneys in the lab: fiction or reality? Istituto di Acustica e Sensoristica, Consiglio Nazionale delle Ricerche, Rome 2014, Invited Lecture.
8. **Xinaris C.** Tissue engineering methods to generate nephrons in the lab, National Congress of the Italian Society of Nephrology, 2013, Invited Lecture.
9. **Xinaris C**, et al. *In vivo* ultrastructural and functional maturation of renal organoids engineered from embryonic kidney cells, Tissue Engineering and Regenerative Medicine International Society (TERMIS)-EU meeting, Istanbul, 2013, Oral presentation.
10. **Xinaris C**, et al. Engineering of vascularised nephrons from simple suspensions of single embryonic cells, American Society of Nephrology, Kidney Week, San Diego, USA, November 2012, Oral Presentation.

Languages

Greek (native), English (fluent), Italian (fluent), French (basic)

Honours & Awards

Prizes & Honours

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| 2016 | Cavaliere dell' ordine della stella d'Italia , President of the Italian Republic Sergio Mattarella, Italy |
| 2015 | Rottary Club , Nicosia, Cyprus |
| 2013 | Scientist of the Year Award by the Man of the Year Annual Awards, Cyprus |

Press Review

Representative articles in National and International Press associated with Dr Xinaris' research

<http://www.sciencedaily.com/releases/2012/10/121018184850.htm>

http://www.newscientist.com/article/dn22398-pioneering-labgrown-kidney-does-its-job-in-animals.html#.VDUHgBmv_1w

<http://www.nyscf.org/news/stem-cell-news/item/1369-stem-cell-derived-kidney-tissue-matures-functions-in-rats>

http://www.ansa.it/web/notizie/specializzati/salutebenessere/2012/10/19/laboratorio-italiano-primo-tessuto-rene-funzionante-mondo_7656583.html