

Curriculum Vitæ

Luca Tiano



Born in Genoa April 1971

- 1996 Degree in Biological Sciences 110/110 e lode –Genova University
- 1997 /2001 PhD in Biochemistry at the University of Camerino. Thesis subject: *Trout erythrocyte as a model for the study of oxidative stress and ROS damage in ageing and environmental pollution*
- 2001/2002 EU Marie Curie Fellowship for the study: *Analysis of stress-induced gene expression in fish red blood cells after in vivo exposure to organotin pollutants* , Marine Laboratory – Fisheries Research Service, Aberdeen University, Scotland.
- 2002/2003 Postdoc fellowship Dep. Biology MCA– University of Camerino : *Radicali Nitroxides as antioxidants in biological systems*
- 2003/2004 Postdoc fellowship Institute of Biochemistry Polytechnic University of Marche *Modulation of apoptosis in in cell cultures, effect of lipophilic antioxidants.*
- 2004/2005 Postdoc fellowship Institute of Biochemistry Polytechnic University of Marche *Role of oxidative stress in endothelial dysfunction, effect of hypophilic antioxidants.*
- 2005/2010 Contract Researcher Institute of Biochemistry Polytechnic University of Marche
- 2011/2016 Researcher in Biochemistry Polytechnic University of Marche , Department of Clinical Sciences, Faculty of Medicine.
- 2016 on Associate Professor in Biochemistry Polytechnic University of Marche , Department of Life and Environmental Sciences.

Biosketch

Since 1997, Dr. Luca Tiano has been involved in research on oxidative stress and the use of antioxidants in cellular models or in vivo both under physiological conditions or in pathologies associated with an altered redox status. During his Ph.D. training in Biochemistry at the University of Camerino (1997-2001) he utilized models of oxidative DNA damage and mitochondrial dysfunction involving fish erythrocytes to test the protective effects of natural and synthetic antioxidants. Moreover, he has been involved in eco-toxicological research regarding oxidative damage induced by environmental xenobiotics. Within this area of research was selected to conduct a European Community research project at the Marie Curie Training Site held by The University of Aberdeen and FRS, in Scotland. Since 2002 he has been a researcher at the Department of Clinical Sciences at the Polytechnic University of Marche, Ancona, Italy. He is involved in joint research projects with Children's Hospital, Salesi and the Heart Institute, Lancisi and since 2016 he is Associate Professor in Biochemistry at the Department of Life and Environmental Sciences at the Polytechnic University of Marche. His main research activities presently concern the health effects of lipophilic cofactors (Coenzyme Q10 and Vitamin K) in healthy subjects and under pathological conditions associated with enhanced oxidative stress. Particular interest has been involved in research on bioavailability and biological effects of vitamins and antioxidants in nutritional supplements and functional foods. These research have seen the active collaboration with biotechnology industries (Kaneka, Gnosis), food supplement industries (Jarrow Formulas, Pharmanord), food companies (Parmalat, Oleificio Costa d'oro, LatterieMerano) Cosmetic and pharmaceutical companies (Angelini, Beiersdorf). He teaches Biochemistry, Nutrigenetics and a focus course on Oxidative stress in Biological systems at the Department of Life and Environmental Sciences, UNIVPM. Supervised 4 PhD students and coordinates a research group composed of 5 post doc researchers. Among academic collaborations he has an active collaboration, funded with a three year grant by the Italian Ministry of Foreign Affairs with the South African Medical Research Council (Prof. C. Muller) and a collaboration with the Institute of Myology, Université Pierre et Marie Curie, Paris 6 (Prof. G. Butler-Browne) funded by the France Embassy in Italy. He is author of 93 papers on international peer reviewed journals (H factor 24, Cit 1969). He is on the board of the European Society of Comparative Biochemistry and Physiology and Executive Committee Member of the International Coenzyme Q10 Association..

Supported projects and fund attraction capabilities in the last 5 years:

Internationalisation:

PI in the collaborative strategic joint research project among UNIVPM and Medical Research Council South Africa: funds for mobility of researchers from the Italian Ministry of Foreign Affairs 2014-2016

Promoter of PhD international scholarship funded by the French embassy in Italy for mobility of supervised PhD student for 4 months at Sorbonne Paris University, Miology Institute for 4 months june-sept 2015

Visiting scientist grant from the Royal Edinburgh Society and Accademia dei Lincei for giving lectures at Glasgow Caledonian University June 2016

Visiting scientist at Dzemal Bijedic University of Mostar Bosnia and Herzegovina within the frame of the Sunbeam Erasmus project for years 2016-2018

Erasmus staff mobility at Glasgow Caledonian University November 2018

Industrial support to PhD scholarship supervised by Dr. Luca Tiano

3 PhD EUREKA supervised by Dr. Tiano with a support of 33% (from industrial Partners (Angelini, Cuore Salus, Fisiofitness) and an equal amount from Regione Marche. A fourth PhD position was supported by 50% from Gnosis S.p.A.

Grants from UNIVPM

Grant for “most productive researcher in the department” in 2012

UNIVPM support to three EUREKA PhD scholarships .

Atheneum grants for research

RSA 2016 *Antinflammatory role of Vitamin K2 in cellular models of senescence*

RSA 2015 *Effect of HmgCo.A-reductase inhibitors in primary cell cultures*

RSA 2014 *Effect of botanicals in mitigating derma fotoageing*

RSA 2013 *Physical exercise and Endothelial functionality in the diabetic patient*

RSA 2012 *Use of CoQ10 prior to cardiosurgery in the elderly.*

PI UNIVPM strategic project 2017 on “*Augmented microscopy for DNA damage quantification: a key tool for environmental, medical and health sciences?*”

Publications

- 1: ORLANDO P, SILVESTRI S, MARCHEGGIANI F, CIRILLI I, TIANO L. Menaquinone 7 Stability of Formulations and Its Relationship with Purity Profile. *Molecules*. 2019 Feb 26;24(5). pii: E829. doi: 10.3390/molecules24050829. PubMed PMID: 30813554.
- 2: DLUDLA PV, NKAMBULE BB, JACK B, MKANDLA Z, MUTIZE T, SILVESTRI S, ORLANDO P, TIANO L, LOUW J, MAZIBUKO-MBEJE SE. Inflammation and Oxidative Stress in an Obese State and the Protective Effects of Gallic Acid. *Nutrients*. 2018 Dec 21;11(1). pii: E23. doi: 10.3390/nu11010023. Review. PubMed PMID: 30577684; PubMed Central PMCID: PMC6356415.
- 3: ORLANDO P, SILVESTRI S, GALEAZZI R, ANTONICELLI R, MARCHEGGIANI F, CIRILLI I, BACCHETTI T, TIANO L. Effect of ubiquinol supplementation on biochemical and oxidative stress indexes after intense exercise in young athletes. *Redox Rep*. 2018 Dec;23(1):136-145. doi: 10.1080/13510002.2018.1472924. PubMed PMID: 29734881.
- 4: DLUDLA PV, NKAMBULE BB, TIANO L, LOUW J, JASTROCH M, MAZIBUKO-MBEJE SE. Uncoupling proteins as a therapeutic target to protect the diabetic heart. *Pharmacol Res*. 2018 Nov;137:11-24. doi: 10.1016/j.phrs.2018.09.013. Epub 2018 Sep 14. Review. PubMed PMID: 30223086.
- 5: ANDREANI C, BARTOLACCI C, GUESCINI M, BATTISTELLI M, STOCCHI V, ORLANDO P, PROVINCIALI M, AMICI A, MARCHINI C, TIANO L, ORLANDO P, SILVESTRI S. Combination of Coenzyme Q(10) Intake and Moderate Physical Activity Counteracts Mitochondrial Dysfunctions in a SAMP8 Mouse Model. *Oxid Med Cell Longev*. 2018 Oct 24;2018:8936251. doi: 10.1155/2018/8936251. eCollection 2018. PubMed PMID: 30473743; PubMed Central PMCID: PMC6220380.
- 6: GIULIANI A, CIRILLI I, PRATTICHIZZO F, MENSÀ E, FULGENZI G, SABBATINELLI J, GRACIOTTI L, OLIVIERI F, PROCOPIO AD, TIANO L, RIPPO MR. The mitomiR/Bcl-2 axis affects mitochondrial function and autophagic vacuole formation in senescent endothelial cells. *Aging (Albany NY)*. 2018 Oct 21;10(10):2855-2873. doi: 10.18632/aging.101591. PubMed PMID: 30348904; PubMed Central PMCID: PMC6224225.
- 7: GIANNUBILO SR, ORLANDO P, SILVESTRI S, CIRILLI I, MARCHEGGIANI F, CIAVATTINI A, TIANO L. CoQ10 Supplementation in Patients Undergoing IVF-ET: The Relationship with Follicular Fluid Content and Oocyte Maturity. *Antioxidants (Basel)*. 2018 Oct 13;7(10). pii: E141. doi: 10.3390/antiox7100141. PubMed PMID: 30322142; PubMed Central PMCID: PMC6210096.
- 8: DAMIANI E, BRUGÈ F, CIRILLI I, MARCHEGGIANI F, OLIVIERI F, ARMENI T, CIANFRUGLIA L, GIULIANI A, ORLANDO P, TIANO L. Modulation of Oxidative Status by Normoxia and Hypoxia on Cultures of Human Dermal Fibroblasts: How Does It Affect Cell Aging? *Oxid Med Cell Longev*. 2018 Sep 23;2018:5469159. doi: 10.1155/2018/5469159. eCollection 2018. PubMed PMID: 30405877; PubMed Central PMCID: PMC6199889.
- 9: LARSEN EL, PADELLA L, BERGHOLDT HKM, HENRIKSEN T, SANTORO L, GABRIELLI O, POULSEN HE, LITTARRU GP, ORLANDO P, TIANO L. The effect of long-term treatment with coenzyme Q10 on nucleic acid modifications by oxidation in children with Down syndrome. *Neurobiol Aging*. 2018 Jul;67:159-161. doi: 10.1016/j.neurobiolaging.2018.03.001. Epub 2018 Mar 15. PubMed PMID: 29665577.
- 10: MANCINI A, DI SEGNI C, BRUNO C, OLIVIERI G, GUIDI F, SILVESTRINI A, MEUCCI E, ORLANDO P, SILVESTRI S, TIANO L, PONTECORVI A. Oxidative stress in adult growth hormone deficiency: different plasma antioxidant patterns in comparison with metabolic syndrome. *Endocrine*. 2018 59(1):130-136.
- 11: ZHANG X, BISWAS L, TOHARI AM, REILLY J, TIANO L, SHU X. Coenzyme Q10 as a therapeutic candidate for treating inherited photoreceptor degeneration. *Neural Regen Res*. 2017, 12(12):1979-1981.
- 12: GUESCINI M, TIANO L, GENOVA ML, POLIDORI E, SILVESTRI S, ORLANDO P, FIMOIGNARI C, CALCABRINI C, STOCCHI V, SESTILI P. The Combination of Physical Exercise with Muscle-Directed Antioxidants to Counteract Sarcopenia: A Biomedical Rationale for Pleiotropic Treatment with Creatine and Coenzyme Q10. *Oxid Med Cell Longev*. 2017;:7083049.

- 13: CORINALDESI C, DAMIANI E, MARCELLINI F, FALUGI C, TIANO L, BRUGÈ F, DANOVARO R. Sunscreen products impair the early developmental stages of the sea urchin *Paracentrotus lividus*. *Sci Rep*. 2017 7(1):7815.
- 14: ORLANDO P, SILVESTRI S, FERLIZZA E, ANDREANI G, CARPENÈ E, FALCIONI G, TIANO L, ISANI G. Biochemical responses to cadmium exposure in *Oncorhynchus mykiss* erythrocytes. *Ecotoxicol Environ Saf*. 2017 145:476-482
- 15: ZHANG X, TOHARI AM, MARCHEGGIANI F, ZHOU X, REILLY J, TIANO L, SHU X. Therapeutic potential of co-enzyme Q10 in retinal diseases. *Curr Med Chem*. 2017 doi: 10.2174/0929867324666170801100516.
- 16: SILVESTRI S, ORLANDO P, BRUGÈ F, FALCIONI G, TIANO L. Effect of different metals on oxidative state and mitochondrial membrane potential in trout erythrocytes. *Ecotoxicol Environ Saf*. 2016 P1:280-285
- 17: MINCARELLI, L., VISCHETTI, C., CRAFT, J., TIANO, L. DNA damage in different *Eisenia andrei* coelomocytes sub-populations after in vitro exposure to hydrogen peroxide *SpringerPlus* 2016 5 (1), 302
- 18: PRATTICHIZZO F, GIULIANI A, RECCHIONI R, BONAFÈ M, MARCHESELLI F, DE CAROLIS S, CAMPANATI A, GIULIODORI K, RIPPO MR, BRUGÈ F, TIANO L, MICUCCI C, CERIELLO A, OFFIDANI A, PROCOPIO AD, OLIVIERI F. Anti-TNF- α treatment modulates SASP and SASP-related microRNAs in endothelial cells and in circulating angiogenic cells. *Oncotarget*. 2016 Mar 2. doi: 10.18632/oncotarget.7858
- 19: BRUGÈ F, DAMIANI E, MARCHEGGIANI F, OFFERTA A, PUGLIA C, TIANO L. A comparative study on the possible cytotoxic effects of different nanostructured lipid carrier (NLC) compositions in human dermal fibroblasts. *Int J Pharm*. 2015 Nov 30;495(2):879-85.
- 20: BACCHETTI T, TULLI D, MASCIANGELO S, GESUITA R, SKRAMI E, BRUGÈ F, SILVESTRI S, ORLANDO P, TIANO L, FERRETTI G. Effect of a barley-vegetable soup on plasma carotenoids and biomarkers of cardiovascular disease. *J Clin Biochem Nutr*. 2015;57(1):66-73.
- 21: SILVESTRI S, ORLANDO P, ARMENI T, PADELLA L, BRUGÈ F, SEDDAIU G, LITTARRU GP, TIANO L. Coenzyme Q10 and α -lipoic acid: antioxidant and pro-oxidant effects in plasma and peripheral blood lymphocytes of supplemented subjects. *J Clin Biochem Nutr*. 2015;57(1):21-6.
- 22: SKARABAHATAVA AS, LUKYANENKO LM, SLOBOZHANINA EI, FALCIONI ML, ORLANDO P, SILVESTRI S, TIANO L, FALCIONI G. Plasma and mitochondrial membrane perturbation induced by aluminum in human peripheral blood lymphocytes. *J Trace Elem Med Biol*. 2015;31:37-44..
- 23: ORLANDO P, SONIA S, BRUGÈ F, TIANO L, KLOTING I, FALCIONI G & POLIDORI C. (2014) High fat diet-induced met-hemoglobin formation in rats prone (WOKW) or resistant (DA) to the metabolic syndrome: effect of CoQ10 supplementation *Biofactors in press*
- 24: PAGANO G, AIELLO TALAMANCA A, CASTELLO G, CORDERO MD, D'ISCHIA M, GADALETA MN, PALLARDÓ FV, PETROVIĆ S, TIANO L, ZATTERALE A. (2014) Current Experience in Testing Mitochondrial Nutrients in Disorders Featuring Oxidative Stress and Mitochondrial Dysfunction: Rational Design of Chemoprevention Trials. *Int J Mol Sci*. 15(11):20169-20208.
- 25: OLIVIERI F., BONAFÈ M., SPAZZAFUMO L., GOBBI M., PRATTICHIZZO F, RECCHIONI R, MARCHESELLI F, LA SALA L, GALEAZZI R., RIPPO MR, FULGENZI G, ANGELINI S, LAZZARINI R, BONFIGLI AR, BRUGÈ F, TIANO L, GENOVESE S, CERIELLO A, BOEMI M, FRANCESCHI C, PROCOPIO AD AND TESTA R (2014) Age- and glycemia-related miR-126-3p levels in plasma and endothelial cells. *Ageing* 6(9):771-87.
- 26: TIRABASSI G, VIGNINI A, TIANO L, BULDREGHINI E, BRUGÈ F, SILVESTRI S, ORLANDO P, D'ANIELLO A, MAZZANTI L, LENZI A, BALERCIA G. Protective effects of coenzyme Q10 and aspartic acid on oxidative stress and DNA damage in subjects affected by idiopathic asthenozoospermia. *Endocrine*. 2015;49(2):549-52.
- 27: PAGANO G, TALAMANCA AA, CASTELLO G, CORDERO MD, D'ISCHIA M, GADALETA MN, PALLARDÓ FV, PETROVIĆ S, TIANO L, ZATTERALE A. (2014) Oxidative stress and mitochondrial dysfunction across broad-ranging pathologies: toward mitochondria-targeted clinical strategies. *Oxid Med Cell Longev*;2014:541230. doi: 10.1155/2014/541230.
- 28: BELARDINELLI R, LACALAPRICE F, TIANO L, MUÇAI A, PERNA GP. (2014) Cardiopulmonary exercise testing is more accurate than ECG-stress testing in diagnosing myocardial ischemia in subjects with chest pain. *Int J Cardiol*. 15;174(2):337-42.

29. GIANNUBILO SR, **TIANO L**, CIAVATTINI A, LANDI B, CARNEVALI P, PRINCIPI F, LITTARRU GP, MAZZANTI L. (2014) Amniotic coenzyme Q10: is it related to pregnancy outcomes? *Antioxid Redox Signal*;21(11):1582-1586. doi: 10.1089/ars.2014.5936.
30. BRUGÈ F, **TIANO L**, ASTOLFI P, EMANUELLI M, DAMIANI E. (2014) Prevention of UVA-induced oxidative damage in human dermal fibroblasts by new UV filters, assessed using a novel in vitro experimental system. *PLoS One*. Jan 7;9(1):e83401.
31. FESTA R, GIACCHI E, RAIMONDO S, **TIANO L**, ZUCCARELLI P, SILVESTRINI A, MEUCCI E, LITTARRU GP, MANCINI A. (2014) Coenzyme Q10 supplementation in infertile men with low-grade varicocele: an open, uncontrolled pilot study. *Andrologia*. 46(7):805-7
32. DAMIANI E, BACCHETTI T, PADELLA L, **TIANO L**, CARLONI P (2014) Antioxidant activity of different white teas: Comparison of hot and cold tea infusions *J. Foodcomp. Anal.* 33(1):59-66
33. BACCHETTI T , TULLI D, MASCIANGELO S, GESUITA R, SKRAMI E, BRUGÈ F, SILVESTRI S, ORLANDO P, **TIANO L**, FERRETTI G., (2014) Effect of black and red cabbage on plasma carotenoid levels, lipid profile and oxidized low density lipoprotein *J. Funct. Foods*. 8(1):128-137
34. MANCINI A, RAIMONDO S, DI SEGNI C, PERSANO M, GADOTTI G, SILVESTRINI A, FESTA R, **TIANO L**, PONTECORVI A, MEUCCI E. (2013) Thyroid hormones and antioxidant systems: focus on oxidative stress in cardiovascular and pulmonary diseases. *Int J Mol Sci*. 9;14(12):23893-23909
35. CARLONI P; **TIANO L**; PADELLA L; BACCHETTI T; CUSTOMU C; KAY A; DAMIANI E (2013) Antioxidant activity of white, green and black tea obtained from the same tea cultivar *Food Research International* 53:900-908
36. BRUGÈ F, DAMIANI E, PUGLIA C, OFFERTA A, ARMENI T, LITTARRU GP, **TIANO L**.(2013) Nanostructured lipid carriers loaded with CoQ10: effect on human dermal fibroblasts under normal and UVA-mediated oxidative conditions. *Int J Pharm*.15;455(1-2):348-56.
37. OLIVIERI F, LAZZARINI R, BABINI L, PRATTICHIZZO F, RIPPO MR, **TIANO L**, DI NUZZO S, GRACIOTTI L, FESTA R, BRUGÈ F, ORLANDO P, SILVESTRI S, CAPRI M, PALMA L, MAGNANI M, FRANCESCHI C, LITTARRU GP, PROCOPIO AD.(2013) Anti-inflammatory effect of ubiquinol-10 on young and senescent endothelial cells via miR-146a modulation. *FreeRadicBiol&Med*.63:410-20.
38. FESTA R, GIACCHI E, RAIMONDO S, **TIANO L**, ZUCCARELLI P, SILVESTRINI A, MEUCCI E, LITTARRU GP, MANCINI A.(2013) Coenzyme Q(10) supplementation in infertile men with low-grade varicocele: an open, uncontrolled pilot study. *Andrologia*.doi: 10.1111/and.12152. PMID: 23964789.
39. PAGANO G, TALAMANCA AA, CASTELLO G, D'ISCHIA M, PALLARDÓ FV, PETROVIĆS, PORTO B, **TIANO L**, ZATTERALE A.(2013) Bone marrow cell transcripts from Fanconi anaemia patients reveal in vivo alterations in mitochondrial, redox and DNA repair pathways. *Eur J Haematol*. 91(2):141-51.
40. PAGANO G, TALAMANCA AA, CASTELLO G, D'ISCHIA M, PALLARDÓ FV, PETROVIĆS, PORTO B, **TIANO L**, ZATTERALE A.(2013) From clinical description, to in vitro and animal studies, and backward to patients: oxidative stress and mitochondrial dysfunction in Fanconi anemia. *FreeRadicBiol&Med*. 58:118-25.
41. GIGANTE A, BRUGÈ F, CECCONI S, MANZOTTI S, LITTARRU GP, **TIANO L**. (2012) Vitamin MK-7 enhances vitamin D3-induced osteogenesis in hMSCs: modulation of key effectors in mineralization and vascularization. *J TissueEngRegenMed*. doi:10.1002/term.1627. PMID: 23109511.
42. BRUGÈ F, BACCHETTI T, PRINCIPI F, SCARPA ES, LITTARRU GP, **TIANO L**.(2012) Olive oil supplemented with Coenzyme Q10: Effect on plasma and lipoprotein oxidative status. *Biofactors*. 38(3):249-256.
43. BRAVO E, PALLESCHI S, ROSSI B, NAPOLITANO M, **TIANO L**, D'AMORE E, BOTHAM KM. (2012) Coenzyme Q metabolism is disturbed in high fat diet-induced non alcoholic Fatty liver disease in rats.*Int J Mol Sci*.13(2):1644-57
44. TURI A, GIANNUBILO SR, BRUGÈ F, PRINCIPI F, BATTISTONI S, SANTONI F, TRANQUILLI AL, LITTARRU G, **TIANO L**.(2011) Coenzyme Q10 content in follicular fluid and its relationship with oocyte fertilization and embryo grading. *Arch Gynecol Obstet*. 285(4):1173-1176

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47. GIANNUBILO SR, **TIANO L**, CECCHI S, PRINCIPI F, TRANQUILLI AL, LITTARRU GP. (2011) Plasma coenzyme Q10 is increased during gestational diabetes. *Diabetes Res Clin Pract*. 94(2):230-5.
48. LITTARRU GP, **TIANO L**, BELARDINELLI R, WATTS GF., (2011) Coenzyme Q10, Endothelial function, and cardiovascular disease. *Biofactors*.37(5):366-73.
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58. BALERCIA G, BULDREGHINI E, VIGNINI A, **TIANO L**., PAGGI F, AMOROSO S, RICCIARDO-LAMONICA G, BOSCARO M, LENZI A, LITTARRU G (2009). Coenzyme Q(10) treatment in infertile men with idiopathic asthenozoospermia: a placebo-controlled, double-blind randomized trial. *FERTILITY AND STERILITY*, vol. 91; p. 1785-1792
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