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CAREER PROFILE (Education and Employment)

- 2017- ,National Scientific Qualification for Full Professor in Science of Exercise and Sport (06/N2);
- 2014- ,National Scientific Qualification for Full Professor in Physiology (05/D1);
- 2014- ,Health Director Sport Medicine Centre, University of Pavia, Voghera
- 2012- , Head of University Laboratory for Sport Therapy in Rare Diseases at Sport Medicine Centre, Voghera (Pavia)
- 2009- , Aggregate Professor in Physiology, faculty of Medicine and Surgery, University of Pavia;
- 2004- , Researcher in Physiology, faculty of Medicine and Surgery, University of Pavia;
- 2004, Specialization in Sport Medicine, University of Pavia (Italy), magna-cum laude; Invited visitor at the Program in Gene Function and Expression, University of Massachusetts, (1mo);
- 2002, Post doctoral position at the Department of Biomedical Science, University of Milano;

Major achievements: From 1999 his scientific interests have been focussed on contractile and biochemical parameters of muscle function in sarcopenia of ageing and muscular dystrophy. He developed original methodologies for evaluation of functional changes induced by ageing and muscular diseases in animal models at the level of whole muscle and single muscle fibers. Since 2005 he has run independent research using physiology, biochemistry and molecular biology techniques to investigate muscular effects of nutritional supplements. From 2012 to 2014 he has successfully run two independent and interactive laboratories and numerous national and international collaborations. From 2014 he is fully dedicated to lead the Sport Medicine Centre of the University of Pavia located in Voghera.

Education

- 2017-2019, II Level Master in Musculoskeletal Echography, University of Torino;
- 2005, Specialization in Sport Medicine, University of Pavia;
- 2002, PhD in Physiology, University of Pavia;
- 2000, Invited Visitor at the Centre for Neuroscience, Flinders University of South Australia;
- 1996-1998: Visiting Scholar at the Centre for Neuroscience, Flinders University of South Australia;
- 1996, MD University of Pavia (Italy), magna-cum laude

SECTION 2 – Publication Listing

Total Publications (except conference proceedings)	Number of publications first or last author: 27				
113	39				
Journal Articles	Book Chapters	Books	Other		
7	5	#	36		
Total citations	Google Scholar	Scopus			

Number	4428	3146		
H-Index	32	27		

FULL LIST OF PUBLICATIONS (last 5 y)

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- Farini A, Sitzia C, Navarro C, **D'Antona G**, Belicchi M, Parolini D, Del Fraro G, Razini P, Bottinelli R, Meregalli M, Torrente Y. Absence of T and B lymphocytes modulates dystrophic features in dysferlin deficient animal model. *Exp Cell Res*. 2012;318(10):1160-74
- Spairani L, Barbero M, Cescon C, Combi F, Gemelli T, Giovanetti G, Magnani B, **D'Antona G**. An electromyographic study of the vastii muscles during open and closed kinetic chain submaximal isometric exercises. *Int J Sports Phys Ther* 2012 7(6): 617-626
- **D'Antona G**, Mascaro A, Monopoli A, Miglietta D, Ongini E, Bottinelli R. Nitric oxide prevents atorvastatin-induced skeletal muscle dysfunction and alterations in mice. *Muscle Nerve*. 2013 Jan;47(1):72-80. doi: 10.1002/mus.23465
- Minetto MA, Botter A, Bottinelli O, Miotti D, Bottinelli R, **D'Antona G**. Variability in Muscle Adaptation to Electrical Stimulation. *Int J Sports Med*. 2013 Jun;34(6):544-53
- Brocca L, Mascaro A, **D'Antona G**. Proteomic analysis of plasma after branched chain enriched mixture supplementation in mice. *J Int Soc Sports Nutr*. 2013 Apr 3;10(1):19
- Mascaro A, Micheletti P, **D'Antona G**. Acute exposure to essential amino acids (EAA) activates mtor/p70 signaling in soleus muscle of chronically eaa-treated aged rats *Int J Immunopathol Pharmacol*. *Int J Immunopathol Pharmacol*. 2013 Jul-Sep;26(3):673-80
- Mascaro A, **D'Antona G**. Acute exposure to essential amino acids activates contraction mediated mTOR/p70 signaling in soleus muscle of elderly rats. *Progr Nutr* 2013 15(3): 139-145
- Mascaro A , **D'Antona G**. Proteomic analysis of plasma after four weeks intermittent fasting in mice. *Mediterr J Nutr Metab* 2013 6: 227-232
- Pasotti S, Magnani B, Longa M, Giovanetti G, Rossi A, Berardinelli A, Tupler R, **D'Antona G**. An integrated approach in a case of Facioscapulohumeral dystrophy. *BMC Musculoskeletal disorders* 2014 15:156
- Corsetti G*, **D'Antona G***, Ruocco S*, Stacchiotti A, Romano C, Tedesco L, Dioguardi F, Rezzani R, Nisoli E. Dietary supplementation of essential amino acids boosts the healthy effects of rosuvastatin on mouse kidney. *Amino Acids*, *Amino Acids* 2014 Sep;46(9):2189-203. * equally contributed PMID: 24923264
- Aquilani R, **D'Antona G**, Baiardi P, Gambino A, Iadarola P, Viglio S, Pasini E, Verri M, Barbieri A, Boschi F. Essential amino acids and exercise tolerance in elderly muscle-depleted subjects with chronic diseases. A rehabilitation without rehabilitation? *Biomed Res Int* 2014; 2014: 341603
- Collino M, Mastrocola R, Nigro D, Chiazza F, Aragno M, **D'Antona G**, Minetto M. Adaptations underlying high fat diet-induced myosteatosis and insulin resistance are muscle specific. *Biomed Res Int* 2014; 2014: 569623
- **D'Antona G**, Nabavi SM, Micheletti P, Di Lorenzo A, Aquilani R, Nisoli E, Rondanelli M, Daglia M. Creatine, L-carnitine, and ω 3 polyunsaturated fatty acid supplementation from healthy to diseased skeletal muscle. *Biomed Res Int* 2014; 2014: 613890
- Aquilani R, Boselli M, **D'Antona G**, Baiardi P, Boschi F, Viglio S, Iadarola P, Pasini E, Barbieri A, Dossena M, Bongiorno AI, Verri M. Ipsilateral arm muscle

hypercatabolism in dysphagic stroke patients: the effects of essential amino acid supplementation. *Biomed Res Int* 2014;2014:964365.

- Mastrocola R, Collino M, Nigro D, Chiazza F, **D'Antona G**, Minetto M, Aragno M. Unraveling the pathophysiology of diabetic myopathy: new insights from animal models. *PLoS One* 2015 Mar 9;10(3):e0119587.
- Beretta Piccoli M, **D'Antona G**, Barbero M, Fisher B, Dieli C, Clijsen R, Heitz H, Wüthrich M, Egloff M, Cescon C. Evaluation of central and peripheral fatigue in quadriceps femoris using sEMG fractal dimension and muscle fiber conduction velocity. *PLoS One* 2015 Apr 16;10(4):e0123921.
- Nabavi SF, Daglia M, **D'Antona G**, Sobarzo-Sánchez E, Talas ZS, Nabavi SM. Natural compounds used as therapies targeting to amyotrophic lateral sclerosis. *Curr Pharm Biotechnol.* 2015;16(3):211-8.
- Nisoli E, Grange RW, **D'Antona G**. Nutrients and muscle disease. *Editorial* 2015 (2015), 809830
- **D'Antona G**, Tedesco L, Ruocco C, Corsetti G, Ragni M, Fossati A, Saba E, Fenaroli F, Montinaro M, Carruba MO, Valerio A, Nisoli E. A peculiar formula of essential amino acids prevents rosuvastatin myopathy in mice. *Antioxid Redox Signal.* 2016, ahead of print. doi:10.1089/ars.2015.6582
- Beretta Piccoli M, **D'Antona G**, Zampella C, Cescon C, Clijsen R, Barbero M. Reliability of muscle fiber conduction velocity and fractal dimension of surface EMG during isometric contractions. *Physiol Meas.* 2017 Feb 17;38(4):616-630
- Meduri F, Beretta Piccoli M, Calanni L, Giovanetti G, Barbero M, Cescon C, **D'Antona G**. Inter-gender sEMG evaluation of central and peripheral fatigue in biceps brachii of young healthy subjects. *PLoS One* 2016 Mar 9;10(3):e0119587
- Marzullo N, Caso F, Negro M, **D'Antona G**. Doping looked at from a philosophical, scientific, and legal standpoint. Submitted
- Benetti E, Mastrocola R, Chiazza F, Nigro D, **D'Antona G**, Bordano V, Fantozzi R, Aragno M, Collino M, Minetto MA. Effects of vitamin D on insulin resistance and myosteatorsis in diet-induced obese mice, Submitted

Other Publications, last 5 y

- Spairani L, **D'Antona G**, Ansaldo R. Patellofemoral pain syndrome: aspetti biomeccanici e proposte riabilitative. *Scienza e Sport* 2012, 13: 72-77.
- Spairani L, **D'Antona G**, Combi F, Ansaldo R. Il dolore di spalla e il trattamento riabilitativo dell'atleta "overhead throwing". *Scienza e Sport* 2012, 14: 72-77.
- Longa E, Pasotti S, **D'Antona G**. Clima, condizioni ambientali e performance olimpica. *Scienza e Sport* 2012, 15: 28-35.
- **D'Antona G**. Esercizio terapia e nutrizione nelle malattie rare: una sfida possibile. Editoriale. *Scienza e Sport* 2012, 16: 4.
- **D'Antona G**, Pasotti S, Protopapa A, Spairani L, Mascaro A. Effetti muscolari dei glucocorticoidi. *Scienza e Sport* 2012, 16: 28-33
- Mascaro A, **D'Antona G**. Miopatia da statine: un problema irrisolto. *Scienza e Sport*, 2013 17: 26-31
- Mascaro A, **D'Antona G**. Specializzazione e plasticità dei muscoli respiratori. *Scienza e Sport* 2013, 18: 28-33
- Mascaro A, **D'Antona G**, Rossi A, Pasotti S. Broncopneumopatia cronica ostruttiva ed esercizio fisico. *Scienza e Sport* 2013, 19: 32-37
- Foroni A, **D'Antona G**. Fisiologia e fisiopatologia dell'immersione subacquea: parte prima. *Scienza e Sport*, 2013, 20: 26-32
- Foroni A, Canali A, **D'Antona G**. Fisiologia e fisiopatologia dell'immersione subacquea: parte seconda. *Scienza e Sport* 2013, 21: 22-28
- Rossi A, **D'Antona G**. Quale attività fisica in età senile? *Atti 7° Workshop Superiore di Medicina dello Sport "Vincenzo Baiamonte"- Sport for All.* 2013: 75-97

- Ferraris C, **D'Antona G**. Allenamento dei muscoli respiratori: tecniche e risultati. *Scienza e Sport* 2014, 22: 22-28
- **D'Antona G**. Sport per la vita: come l'esercizio fisico si lega alla sopravvivenza. *Atti 8° Workshop Superiore di Medicina dello Sport "Vincenzo Baiamonte"-Sport for All*. 2014: 5-19
- Fusi F, **D'Antona G**. Restrizione calorica: come e perché. *Scienza e Sport* 2014, 23: 22-28
- **D'Antona G**. Integrazione e sport: Glutammina. *Scienza e Sport* 2014, 24: 23-26
- **D'Antona G**. Integrazione e sport: Amino acidi essenziali. *Scienza e Sport* 2015, 25: 22-25
- **D'Antona G**. Integrazione e sport: Carnitina. *Scienza e Sport* 2015, 26: 20-24
- Negro M, Avanzato I, **D'Antona G**. Integrazione e sport: Creatina. *Scienza e Sport* 2015, 27: 20-25
- Meduri F, Zampella C, **D'Antona G**. Adattamenti cardiovascolari all'esercizio di resistance. *Scienza e Sport* 2015, 28: 74-79
- Calanni L, Meduri F, Zampella F, **D'Antona G**. I condizionamenti centrali e periferici negli sport di endurance e l'introduzione di resistance training nella programmazione. *Scienza e Sport* 2016, 29: 86-92
- Calanni L, Meduri F, **D'Antona G**. L'importanza dello stato di idratazione nello sport, il consumo di acqua e gli effetti dell'ipoidratazione sulla performance. *Scienza e Sport* 2016, 30: 22-27
- Meduri F, Calanni L, **D'Antona G**. Instability balance nel calciatore: vantaggi o svantaggi? *Scienza e Sport*, 31: 26-29
- Negro M, Avanzato I, **D'Antona G**. L'invecchiamento del muscolo scheletrico: meccanismi e teorie alla base dell'aging e dell'antiaging muscolare. *Scienza&Medicina*. In press
- Villani C, **D'Antona G**. L'invecchiamento. Alcune importanti variabili neuromuscolari "bersaglio" dei processi fisiologici legati all'invecchiamento e le conseguenti implicazioni funzionali. *Scienza e Sport* 2016, 32: 22-27
- Villani C, **D'Antona G**. L'invecchiamento. Alcune importanti variabili neuromuscolari "bersaglio" dei processi fisiologici legati all'invecchiamento e le conseguenti implicazioni funzionali. Seconda parte *Scienza e Sport* 2017, 33:
- Meduri F, Postiglione G, **D'Antona G**. Differenze intersessuali della fatica muscolare. *Scienza e Sport* 2017, 34: 26-29
- Negro M, **D'Antona G**. Immunità ed esercizio fisico. *Scienza e Sport* 2017, 35: 28-33

Books

- **D'Antona G** AAVV *Fisiologia per Scienze Motorie*, Editore Poletto, curatela in preparation

Books chapters,

- Nisoli E, Aquilani R, **D'Antona G**. (2013) Amino Acid Supplements and Diabetes. In *Bioactive Food as Dietary Interventions for Diabetes*. Ronald Watson, editor, ISBN 9780123971531. UK: Academic Press. 83-96.
- **D'Antona G** (2013) Nutritional Interventions as Potential Strategy to Minimize Exercise-Induced Muscle Injuries in Sports, *Muscle Injuries in Sport Medicine*, Bisciotti GN, editor, ISBN: 978-953-51-1198-6, InTech, DOI: 10.5772/56590.
- **D'Antona G** (2014) Essential amino acid supplementation for the prevention and treatment of obesity in: *Nutrition in the Prevention and Treatment of Abdominal Obesity*. Ronald Watson, editor, ISBN: 9780124078697, Elsevier. 38: 445-456
- **D'Antona G** (2015) Amino acids supplementation as nutritional therapy strategy in diabetes mellitus. In: *Glucose intake and utilization in pre-diabetes and diabetes*. Ronald Watson, editor, ISBN 9780128000939. Elsevier. 32: 387-401
- **D'Antona G** (2016) mTOR, nutrition and ageing. In: *Molecular basis of nutrition and ageing*. Marco Malavolta and Eugenio Mocchegiani, editors, ISBN: 9780128018163. Elsevier. 11: 141-153
- Negro M, Avanzato I, **D'Antona G** (2017) Creatine in skeletal muscle physiology. In *Nonvitamin and Nonmineral Nutritional Supplements*, Ana Sanchez Silva and Sayed Mohammad Nabavi, editors, Elsevier in press

- **D'Antona G** Nutritional and Pharmacologic Aids to Performance Chapter 4. In McArdle Essentials of Exercise Physiology translation in press

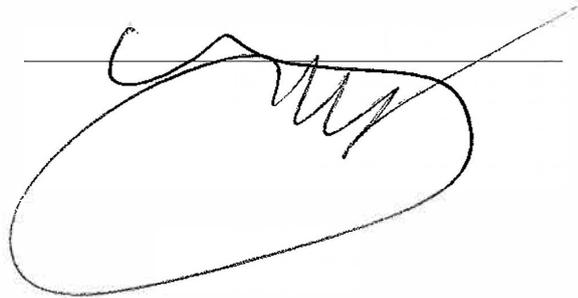
CME courses,

- **D'Antona G**, Marzatico F. Integrazione e supplementazione nutrizionale nello sport. In Integratori alimentari: dalle evidenze scientifiche al corretto impiego. Farmacia news. 2014, 5: 28-32
- Marzatico F, Rossi P, **D'Antona G**. Integrazione alimentare e consigli nutrizionali nello sport: Indicazioni specifiche per i differenti tipi di sport di endurance e contro-resistenza. In Integrazione e consigli nutrizionali in farmacia. 2015, Tecniche Nuove
- **D'Antona G**: Nutraceuticals in sports. In Nutraceuticals in pharmacy. Organizers: Prof. G Racagni, University of Milan and Ordine dei Farmacisti provincia di Milano. 2016
- Bettio C, **D'Antona G**: Il magnesio a 360°. Corso per Farmacisti, in preparation

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Certosa di Pavia, 4.12.2017

NOME E COGNOME (FIRMA)

A handwritten signature in black ink, appearing to be 'G. D'Antona', is written over a horizontal line. The signature is stylized and somewhat cursive.