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| GIUSEPPE D’ANTONA, MD, PhD, Curriculum sketch |
| **Career Profile (Education and Employment)** |
| * *2014- ,*National Scientific Qualification for Full Professor in Physiology (05/D1); and 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 focused 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 he successfully runs two independent and interactive laboratories and numerous national and international collaborations.Education* *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;

Google scholar lists the candidate as #1 In the world in ‘Sport Medicine’, #2 In the world in ‘Nutritional Supplementation’, and in the top #15 globally for ‘Muscle Physiology’. His h-index of 31 at July 2015. Since 2005 he has run an independent research on the effects of nutritional supplementations on the skeletal muscle of the young and the elderly. In 2012 he founded the laboratory for Motor Activities in Rare Diseases at the Sport Medicine Centre of the University of Pavia, devoted to the identification of strategies for sport and nutritional therapy from “bench to bedside”. Invited speaker at high profile national and international conferences for example: • 2009, Themed meeting “Human and Exercise Physiology“ of the Physiological Society, King’s College London (UK); • 2007, 11° Turkish Sport Medicine Congress, Antalya (Turkey); • 2007, 12th Annual Congress of the European College of Sport Science (ECSS), Jyväskylä (Finland); • 2007, King’s College Physiology Seminar Series, sponsored by The Physiological Society, London (UK); • 2004, Symposium Ageing Of The Motor System:” From Single Cells To Whole Body Performance” of the 6th World Congress on ageing and physical activity” London (Ontario, Canada); He received numerous measures of esteem, in particular:• 2014, Invited Lead Guest Editor for the Special issue “Nutrients and Muscle Disease” in BioMed Research International; • 2013-, Associate Editor BIOINFO Journal of Proteomics; • 2012-, Member of the Editorial Board Dataset Papers in Medicine; • 2012-, Member of the Editorial Board Scholarly Research Network Nutrition (ISRN Nutrition); • 2012-2015, Member of the Editorial Board Sport Science for Health; • 2011-, Member of the Editorial Board Open Journal of Molecular and Integrative Physiology; • 2008-, Member of the Editorial Advisory Board of the European Journal of Applied Physiology; • 2003, Young Investigator Award, European Muscle Conference, Montpellier (France); • 1999, Young Researchers Award, University of Pavia; He is regularly involved in reviewing activity for numerous indexed Journal, in particular: J Appl Physiol; Acta Physiol Scand; Thorax; Eur J Physiol; Eur J Appl Physiol, Curr Aging Sci; J Physiol; J Anat; Int J Sports Med; Differentiation; Human Mov Sci; PLOSone; Scand J Med Sci Sports; ISRN Nutrition; Am J Physiol, Exp Ger, Endocrine.He is institutionally involved in research-related activities, in particular:2010-2013,Vice-Chair of the Animal Ethic Committee of the University of Pavia; 2013-2014,Vice-Chair of the Animal Ethic Committee of the University of Pavia; 2009-,In charge of the Animal House Facility of the Department of Molecular Medicine, University of Pavia; 2014-,Vice-Chair of the Animal Wealth Committee of the University of Pavia |

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| Total Publications |  |
| 117 |  |
| Journal Articles | Reviews | Book Chapters | Books | \*Conference associated publications | Other |
| 60 | 7 | 5 | # | 21 edited conf proceeding | 28 |
| **10 Selected pubblications** Sampaolesi M, Torrente Y, Innocenzi A, Tonlorenzi R, **D’Antona G,** Pellegrino MA, Barresi R, Bresolin N, De Angelis MG, Campbell KP, Bottinelli R, and Cossu G. Cell therapy of a-sarcoglycan null dystrophic mice through intra-arterial delivery of mesoangioblasts. Science 2003 301: 487-492**D'Antona G**, Pellegrino M A, Adami R, Rossi R, Naccari Carlizzi C, Canepari M, Saltin B, and Bottinelli R. The effect of ageing and immobilization on structure and function of skeletal muscle fibres. J Physiol 2003 552: 499-511Sampaolesi M”, Blot S”, **D’Antona G**, Granger N, Tonlorenzi R, Innocenzi A, Mognol P, Thibaud J, Galvez B, Barthélémy I, Perani L, Mantero S, Guttinger M, Pansarasa O, Rinaldi C, Cusella De Angelis MG, Torrente Y, Bordignon C, Bottinelli R and Giulio Cossu G. Rescue of muscular dystrophy pathology by mesoangioblast stem cells in Golden Retriever Dogs leads to preservation of motility. Nature 2006 30; 444(7119): 574-9 “ equally contributed Gabellini D, **D'Antona G**, Moggio M, Prelle A, Zecca C, Adami R, Angeletti B, Ciscato P, Pellegrino MA, Bottinelli R, Green MR and Tupler R. Facioscapulohumeral muscular dystrophy in mice overexpressing FRG1. Nature 2006; 439: 973-7 **D'Antona G**, Brocca L, Pansarasa O, Rinaldi C, Tupler R & Bottinelli R. Structural and functional alterations of muscle fibres in the novel mouse model of facioscapulohumeral muscular dystrophy. J Physiol 2007 584**:** 997-1009 \*Benchaouir R, Meregalli M, Farini A, **D'Antona G,** Belicchi M, Goyenvalle A, Battistelli M, Bresolin N, Bottinelli R, Garcia L, and Torrente Y. Restoration of human dystrophin following transplantation of exon skipping engineered DMD patient stem cells into dystrophic mice. Cell Stem Cell 2007; 1(6); 646-658**D'Antona G**, Ragni M, Cardile A, Tedesco L, Dossena M, Bruttini F, Caliaro F, Corsetti G, Bottinelli R, Carruba MO, Valerio A, Nisoli E. Branched-chain amino acid supplementation promotes survival and supports cardiac and skeletal muscle mitochondrial biogenesis in middle-aged mice. Cell Metab 2010 Oct 6;12(4):362-72Tedesco FS, Hoshiya H, **D'Antona G**, Gerli MF, Messina G, Antonini S, Tonlorenzi R, Benedetti S, Berghella L, Torrente Y, Kazuki Y, Bottinelli R, Oshimura M, Cossu G. Stem cell-mediated transfer of a human artificial chromosome ameliorates muscular dystrophy. Sci Transl Med. 2011 Aug 17; 3(96): 96ra78Minetto 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 \*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. |