

NAME AND CONTACT DETAILS**GIUSEPPE D'ANTONA,**

Sketch:

Professor in Exercise and Sport Science at the University of Pavia, is currently Director of the CRIAS-Sports Medicine Center Voghera at the University of Pavia where he supervises sports medicine personnel and researchers.

Dr. D'Antona obtained his MD in 1996 and, after graduation, he was research fellow at Flinders University of South Australia. He received his PhD in Physiology in 2002 and graduation in Sport Medicine in 2004. In 2012 he founded the Laboratory of Motor activities in Rare diseases. He is the author of more than 100 scientific works in international peer reviewed journals including Nature, Science, PNAS, Cell Metabolism. He is currently Editor in Chief of Frontiers in Exercise Physiology, and participates in the editorial Board of European Journal of Applied Physiology, International Journal of Molecular Sciences, and other international journals.

CAREER PROFILE (Education and Employment)

- 2020- Director Interdipartimental Centre for Motor and Sport Activities, University of Pavia
- 2020- Associate Professor in n Exercise and Sport Sciences, University of Pavia, Italy
- 2017-, National Scientific Qualification for Full Professor in Science of Exercise and Sport (06/N2);
- 2014-2020, 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;
- 2004-2020, Researcher in Physiology, faculty of Medicine and Surgery, University of Pavia;
- 2004, Invited visitor at the Program in Gene Function and Expression, University of Massachusetts;
- 2002, Post doctoral position at the Department of Biomedical Science, University of Milano.

Education

- 2017-2019, II Level Master in Musculoskeletal Ultrasound, 100/100, University of Torino;
- 2005, Specialization in Sport Medicine, magna cum laude, 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, Medicine and Surgery magna cum laude, University of Pavia (Italy)

SECTION 2 – Publication Listing

Total citations	Google Scholar	Scopus
Number	7637	5036
H-Index	40	34

Indexed Publications	108	
Books	1	
Books Chapters	8	

MISCELLANEA

He is regularly involved in **reviewing activity** for numerous indexed Journal, in particular: Journal of Applied Physiology; Journal of Comparative Physiology; Acta Physiologica Scandinavica; Thorax; European Journal of Physiology; European Journal of Applied Physiology (more than 160 papers reviewed), Current Aging Science; Natural Product Communications, Journal of Physiology, Journal of Anatomy; International Journal of Sports Medicine; Differentiation; Human Movement Science, PLOSone, Scandinavian Journal of Medicine and Science in Sports, ISRN Nutrition, American Journal of Physiology, Experimental Gerontology, Endocrine, Experimental Physiology, Nutritional Neuroscience, EBioMedicine, Frontiers in Physiology, Frontiers in Exercise Physiology

He is involved in **reviewing grant applications** for research agencies as:
 Ministry of Health: Program of Relevant National Interest (PRIN)
 National Agency for the Evaluation of University system (ANVUR)
 Association Française contre les myopathies (AFM)
 Rita Levi Montalcini Programme for Young Researchers

He is involved in **editorial activities and boards**, in particular:

- 2020-, Editor in Chief “Frontiers in Exercise Physiology”
- 2021-Associated Editor “Muscles”
- 2020-2021, Invited Editor Research Topic “Predicting individual responses to exercise interventions” volume II in “Frontiers in Physiology”
- 2020-, Associated Editor “International Journal of Molecular Sciences”
- 2020, Invited Editor “Arab Journal of Basic and Applied Sciences” for the special issue: “Determinants and countermeasures to fatigue in health and neuromuscular disease”
- 2019-, Associated Editor of the “Journal of Science in Sport and Exercise” (SSEJ)
- 2019-, Invited Editor Special Issue “Muscle Strength and Muscle Quality in Relation to Nutrition” in “Nutrients”
- 2018-2019, Invited Editor Research Topic “Predicting individual responses to exercise interventions” in “Frontiers in Physiology”
- 2018-, Associated Editor of the “Evidence-Based Complementary and Alternative Medicine”
- 2016-, Associated Editor of “Frontiers in Physiology: Skeletal muscle Physiology”
- 2016-, Associated Editor of “Frontiers in Physiology: Exercise Physiology”
- 2014, Invited Lead Guest Editor for the Special issue Nutrients and Muscle Disease in “BioMed Research International”;
- 2014-, Editorial Board of the “Journal of nutrition and nutritional epidemiology”;
- 2012-2015, Advisory Board of “Sport Science for Health”;
- 2011-, Scienza e Sport (Scientific Committee);
- 2008-, Advisory Board of the “European Journal of Applied Physiology”.

He is or has been member of national and international **scientific societies**, in particular:

- 2018-, Italian Society for Motor Sciences;
- 2010-, Italian Society for Obesity;
- 2008-, European College of Sport Science;
- 2008-2012, The Physiological Society;
- 2005-, Italian Sport Medicine Federation;
- 2002-2019, Italian Physiological Society;
- 2001-, European Society for Muscle Research;
- 2001-2007, Biophysical Society;

He is institutionally involved in **research-related activities**, in particular:

- 2021- President of CRIAMS Interdepartmental Centre for Motor and Sport Activities, University of Pavia (CRIAMS)
- 2018-2021 Vice President of CRIAMS Interdepartmental Centre for Motor and Sport Activities, University of Pavia (CRIAMS)
- 2016-, Member of the Technical-Scientific Board of Centro Universitario Sportivo di Pavia (CUS);
- 2015-2019, In charge of the Animal House Facility of the Maugeri Foundation, Pavia (Italy);
- 2014-2019, Vice-Chair of the Animal Wealth Committee of the University of Pavia;
- 2013-2014, Vice-Chair of the Animal Ethic Committee of the University of Pavia;
- 2012-, Member of the Technical-Scientific Board of the Interdepartmental Centre for Motor and Sport Activities, University of Pavia (CRIAMS);
- 2010-2013, Vice-Chair of the Animal Ethic Committee of the University of Pavia;
- 2009-2015, In charge of the Animal House Facility of the Department of Molecular Medicine, University of Pavia;
- 2008-2014, Member of the Technical-Scientific Board of the Sport Medicine Centre, Maugeri Foundation, Pavia (Italy).

Grant proposals, in particular:

He has participated as Team component or Principal investigator in numerous national and international funded grant proposals (Programs of Relevant National Interest, from 2000-); European Community (PENAM 2001-2004; Better Ageing 2002-2005); Italian Space Agency (2001-2003; 2006-2009); Telethon Onlus (2003-2006), Cariplo 2018, Prin 2018,2020; Horizon-HLTH-2021-Disease-04

Grant proposals funded as Principal Investigator, in particular:

- 2015-2016, University of Pavia, selected for crowdfunding on the platform www.universitiamo.eu: #Sport4Therapy. Role: PI;
- 2014-2017, AFM Association Française contre les myopathies: Study of the role of fatigue in muscle degeneration in Facioscapulohumeral dystrophy. Role: PI;
- 2009; PRIN: Anti-ageing effects of branched chain amino acids in mammals: role of mitochondrial biogenesis. Role: Team PI;
- 2007; PRIN: Cellular and Molecular mechanisms involved in muscle plasticità induced by neuromuscular electrical stimulation in young and elderly subjects. Role: Team PI.

FIVE SIGNIFICANT PUBLICATIONS

1. **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: 499-511
2. Gabellini D, **D'Antona G**, Moggio M, Prella 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
3. Sampaolesi 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
4. **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
5. **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):362-72