

CURRICULUM VITAE
DEBORA DI MAURO

PERSONAL INFORMATION

Family name: Di Mauro

First name: Debora

Researcher unique identifier(s) Orcid Id 0000-0003-3045-7063 Scopus Author ID: 6602722471

Date of birth: 07/02/1968

Nationality: Italian

• **EDUCATION**

1991 Degree in Pharmacy at the University of Messina, Italy

1996 PhD in Morphological Sciences, Department of Biomedical, Dental and Morphological and Functional Imaging Sciences "of University of Messina, Italy

• **CURRENT POSITION(S)**

2021-present Associate Professor of Methods and Didactics of Sports Activities, Department of Biomedical, Dental and Morphological and Functional Imaging Sciences "of University of Messina, Italy

• **PREVIOUS POSITIONS**

1997-1999 Postdoctoral Research Fellow in Morphological Sciences, Department of Biomedical, Dental and Morphological and Functional Imaging Sciences "of University of Messina, Italy

2000 two-year research grant Department of Biomedical, Dental and Morphological and Functional Imaging Sciences "of University of Messina, Italy

2008 Senior Researcher of Methods and Didactics of Sports Activities (SSD M-EDF/02), Department of Biomedical, Dental and Morphological and Functional Imaging Sciences "of University of Messina, Italy

• **ACADEMIC RESPONSIBILITY**

All the below reported refers to the University of Messina

From 2004 to 2009

Lecturer (contract professor) "**Theory and Methodology of Research in the Motor Field**" Master Degree "Sciences and Techniques of Preventive and Adapted Motor Activity"

From 2009 to 2010

1. Lecturer "**Theory, Technique and Didactics of Adult and Elderly Motor Activities**" Bachelor Degree Course of Motor and Sports Sciences.

2. Lecturer "**Methods and Techniques of Motor Education in the Elderly Subject**" Master Degree of Sciences and Techniques of Preventive and Adapted Motor Activity.

3. Lecturer "**Methodology of Sports Training**" and "**Organization and Regulation of Sports activities**" Bachelor Degree Course of Sport Sciences and Health

From 2011 to 2015

Lecturer (contract professor) “**Recreational Motor Activities** “ teaching qualification for physical education (A029 e A030)

From 2009 to 2015

1. Lecturer “**Sports Training Methodology**” Bachelor Degree Course of Motor and Sports Sciences
2. Lecturer “**Organization and Regulation of Sports Activities**” (M-EDF/02) Bachelor Degree Course of Motor and Sports Sciences
3. Lecturer “**Theory and Methodology of Research in the Motor Field**” Master Degree of Sciences and Techniques of Preventive and Adapted Motor Activity.
4. Lecturer “**Sport training methodology**” Specialty school of Sport Medicine

From 2016 to 2019

1. Lecturer “**Sports Training and Functional Assessment**” Bachelor Degree Course of Motor and Sports Sciences.
2. Lecturer “**Sport training methodology**” Specialty school of Sport Medicine

From 2019 to present

1. Lecturer “**Sports Training and Functional Assessment**” Bachelor Degree Course of Motor and Sports Sciences.
2. Lecturer “**Methods and Techniques of Motor and Sports Activity for the Developmental Age**” Master Degree of Sciences and Techniques of Preventive and Adapted Motor Activity.
3. Lecturer “**Sport training methodology**” Specialty School of Sport Medicine
4. Lecturer “**Functional Assessment**” Specialty School of Sport Medicine

• MEMBER OF SCIENTIFIC AND ORGANIZATIONAL COMMITTEE

57° Congress of the Italian Society of Anatomy - 2003

32° Congress of the Italian Society of Histochemistry -2007

64° Congress of the Italian Society of Anatomy and Histology and of the Satellite Symposium "Anatomy and Sport" - 2010

31° International Symposium in Morphological Sciences –2010

71° Congress of the Italian Society of Anatomy and Histology - 2017

10° Congress of the Italian Society of Motor and Sports Sciences (SISMES)- 2018

• INSTITUTIONAL RESPONSIBILITIES

2020-2022 member of the board of teachers of the International PhD in Translational Molecular Medicine and Surgery, University of Messina, Italy

Tutor and Supervisor of the PhD and undergraduate students, Bachelor Degree Course of Motor and Sports Sciences and Master Degree of Sciences and Techniques of Preventive and Adapted Motor Activity, University of Messina, Italy

- **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

Member Italian Society of Sport and Movement Sciences (SISMeS)

- **FUNDING FOR RESEARCH ACTIVITIES**

PRIN 2002 Cofunded area 05 - Interaction systems between subsarcolemmal cytoskeleton and the extracellular matrix in satellite cells during myogenesis. (CINECA-MIUR) from 16-12-2002 to 18-01-2005

PON 2007/2013 - European Union – MIUR- Research project 45602 CIPE 1 "Pattern of integrated molecular diagnostics and non-pharmacological targeted therapy in breast cancer) and in neurology. From 13-12-2007 to 13-12-2010

PON 2007/2013 - European Union – MIUR- Research project 46965 CIPE 2 " Study of innovative medical therapeutic strategies guided by molecular and proteus genomic imaging: applications in oncology and neurology ". From 01-09-2008 to 01-09-2012.

- **RESEARCH TOPICS**

My main research topics are focused on: physical activity, athletic performance, relationship between sport and health. In particular, my research includes:

- basic science research on skeletal muscle morphology,
- the influence of genetics on sport,
- physical training to optimize performance,
- oxidative stress,
- human brain motor connectivity and motor learning

LIST OF FULL PUBLICATIONS

1. **Risposte strutturali e funzionali della mucosa gastrica umana al trattamento con Omeprazolo a medio e lungo termine.** G. Anastasi, °M. Bottari, **D. Di Mauro**, L. Magaudda, M.R. Mondello, °S. Pallio, G. Santoro, °A. Tortora e M.C. Tripoli. Atti Acc. Pelor. Peric. Anno XXXVI fascicolo III 1992.
2. **Psoriasis and cyclosporin: immunohistochemical aspects of the basement membrane.** M.R. Mondello, °L. Califano, °S.P. Cannavo', **D. Di Mauro**, °B. Guarneri, L. Magaudda, S. Pergolizzi, G. Santoro, °M. Vaccaro. Acta Derm Venereol (Stockh) Suppl. 186: 96-98, 1994.
3. **Variazioni morfologiche della mucosa gastrica umana dopo trattamento con Omeprazolo: Studio al Microscopio Elettronico a Scansione.** L. Magaudda, M.R. Mondello, **D. Di Mauro**, S. Pallio, M. Bottari. Minerva Gastroenterol. Dietol., 41, 1995.
4. **Immunolocalization of the costameres in human skeletal muscle fibers: Confocal Laser Scanning Microscope Investigation.** M.R. Mondello, °P. Bramanti, G. Cutroneo, G. Santoro, **D. Di Mauro**, and G. Anastasi. Anat. Rec., 245: 481-487, 1996.
5. **Effect of Naringin on experimental ulcer rats.** E.M. Galati, M.T. Monforte, A. D'aquino, N. Miceli, **D. Di Mauro**, R. Sanogo. Phytomedicine Vol 5(5) pp361-366, 1998
6. **A possible role of plasmalemmal cytoskeleton, nitric oxide synthase and innervation in infantile hypertrophic pyloric stenosis. A confocal scanning microscope study.** C. Gentile, C. Romeo, P. Impellizzeri, N. Turiaco, M. Esposito, **D. Di Mauro**, M.R. Mondello. J. Ped. Surg. Int. Vol 14: 45-50 1998

7. **Role of subunit composition in determining acetylcholine receptor degradation rates in rat myotubes.** C. Sala, M. Francolini, **D. Di Mauro**, G. Fumagalli. *Neurosciences Letters* Vol 256: 1-4. 1998
8. **Le interazioni cellula-matrice nel muscolo scheletrico: lo stato dell'arte.** L. Magaudda, **D. Di Mauro**, L. Messina. *Medicina dello Sport* Vol. 5: 223-230, 2000.
9. **Modulation of nicotinic acetylcholine receptor turnover by tyrosine phosphorylation in rat myotubes.** A. Sava, Barisone I., **D. Di Mauro**, G. Fumagalli, C. Sala. *Neuroscience Letters* vol. 313 (37-40) 2001
10. **Comportamento dell'ossido nitrico sintetasi nella "miopatia da scompenso cardiaco" studio immunoistochimico al CLSM.** **D. Di Mauro**, D. Fugazzotto, L. Messina, M. Sofi, L. Magaudda. *Medicina dell'Esercizio Fisico e dello Sport* vol 2 (10-15) 2001
11. **Immunolocalizzazione dell'ossido nitrico sintetasi nella membrana sinoviale umana normale e patologica.** **D. Di Mauro**, Trimarchi F., Giacobbe O., Bitto L., Fugazzotto D., Buscemi A., Magaudda L. *Progressi in Medicina dello Sport* 21-23, 2003
12. **Effects of physical exercise on skeletal muscle fiber: ultrastructural and molecular aspects.** Magaudda L., **D. Di Mauro**, Trimarchi F., Anastasi G. *Basic and Applied Myology* vol 14 (1) 17-21, 2004
13. **Culture of Human Skeletal Muscle Myoblasts: Timing Appearance and Localization of Dystrophin-Glycoprotein Complex and Vinculin-Talin-Integrin Complex.** F. Trimarchi, A. Favalaro, S. Fulle, L. Magaudda, C. Puglielli, **D. Di Mauro** *Cells Tissues Organs* Vol. 183, No. 2, 2006
14. **Distribution of costameric proteins in normal human ventricular and atrial cardiac muscle.** **D. Di Mauro**, R. Gaeta, A. Arco, D. Milardi, S. Lentini, M. Runci, G. Rizzo, L. Magaudda) *Folia Histochemica et Cytobiologica* vol 46 pag 45 2008
15. **Expression pattern of transglutaminase in the early differentiation staged of erupting rat incisor.** Caccamo D., **Di Mauro D.**, Condello S., Curro M., Cutroneo G., Anastasi G.P. Trimarchi F and Ientile R. *Amino Acids*. 36(1):49-56. 2009
16. **Dystrophin-glycoprotein complex and vinculin-talin-integrin system in human adult cardiac muscle.** G Anastasi, G. Cutroneo, R. Gaeta, **D. Di Mauro**, A. Arco, A. Consolo, G. Santoro, F. Trimarchi, A. Favalaro. *Int. J. Mol. Med*. 23:149-159. 2009
17. **Aerobic Exercise and Nonalcoholic Fatty Liver Disease: A Case Study.** **D. Di Mauro**, F. Pagano, L. Magaudda, F. Speciale, G. Speranza, M. Bonaiuto, A. Mallamace, and F. Trimarchi. *The Journal of Sports Medicine and Physical Fitness* Dec;49(4):448-52. 2009
18. **Distribution of costameric proteins in normal human ventricular and atrial cardiac muscle.** **D. Di Mauro**, R. Gaeta, A. Arco, D. Milardi, S. Lentini, M. Runci, G. Rizzo, L. Magaudda. *Folia Histochemica et Cytobiologica* 47(4):605-8. 2009
19. **Oxidative stress and sport performance.** **D. Di Mauro**, F. Pagano, M. Bonaiuto, L. Magaudda, F. Speciale, F. Trimarchi. *Med Sport* 63: 277-284. 2010
20. **Altered cytoskeletal structure of smooth muscle cells in ureteropelvic junction obstruction.** Cutroneo G, Arena S, Anastasi G, Cervellione RM, Grimaldi S, **Di Mauro D**, Speciale F, Arena F, Di Benedetto V, Favalaro A, Magno C. *J Urol*. Jun;185(6):2314-9. 2011
21. **Costameric proteins: from benchside to future translational cardiovascular research.** Cutroneo G, Lentini S, Favalaro A, Anastasi G, **Di Mauro D**. *Ann Cardiol Angeiol (Paris)*. Feb;61(1):55-60. 2012

22. **Evaluation of heart rate recovery in relation to playing position in professional soccer players.** Bonaiuto M, **Di Mauro D**, Speciale F, Pagano F, Buda D, Vita G, Magaudda L, Trimarchi F. *J Sports Med Phys Fitness*. Dec;52(6):583-8. 2012
23. **Expression of sarcoglycans in the human cerebral cortex: an immunohistochemical and molecular study.** Anastasi G, Tomasello F, **Di Mauro D**, Cutroneo G, Favalaro A, Conti A, Ruggeri A, Rinaldi C, Trimarchi F. *Cells Tissues Organs*.196(5):470-80. 2012
24. **MRI 3D lateral cerebral ventricles in living humans: morphological and morphometrical age-, gender-related preliminary study.** Trimarchi F, Bramanti P, Marino S, Milardi D, **Di Mauro D**, Ielitto G, Valenti B, Vaccarino G, Milazzo C, Cutroneo G. *Anat Sci Int*. Mar;88(2):61-9. 2013
25. **Sarcoglycan Complex in Human Normal and Pathological Prostatic Tissue: An Immunohistochemical and RT-PCR Study.** Cutroneo G, Bramanti P, Favalaro A, Anastasi G, Trimarchi F, **Di Mauro D**, Rinaldi C, Speciale F, Inferrera A, Santoro G, Salvatore A, Patricolo M, Magno C. *Anat Rec (Hoboken)* Feb;297(2):327-36. 2014
26. **Sarcoglycan complex in masseter and sternocleidomastoid muscles of baboons: an immunohistochemical study.** G. Cutroneo, A. Centofanti, I F. Speciale, G. Rizzo, A. Favalaro, G. Santoro, D. Bruschetta, D. Milardi, A. Micali, **D. Di Mauro**, G. Vermiglio, G. Anastasi, F. Trimarchi *European Journal of Histochemistry*. 59:25092015
27. **On the Ratio between Static Pressure and Thickness of Growing AAAs.** Bruschetta D., **Di Mauro D.**, Filardi V., Rizzo G., Trimarchi F. *J Vasc Med Surg*.3:1-8. 2015
28. **Influence of MTHFR polymorphisms on cardiovascular risk markers in elite athletes.** Currò M, **Di Mauro D**, Bruschetta D, D'Amico F, Vecchio M, Trimarchi F, Ientile R, Caccamo D. *Clin Biochem*. 49(1):183-5. 2016
29. **Acute effects of static stretching on jumping performance: static stretching and jump D. Di Mauro,** D. Buda, L. Magaudda, G. Trimarchi, R. Franzo', A. Bonaiuto, F. Trimarchi. *Medicina dello Sport*. Vol. 69 (3) 309-20. 2016
30. **Assessment of glutathione peroxidase-1 polymorphisms, oxidative stress and DNA damage in sensitivity-related illnesses.** Gugliandolo A, Gangemi C, Calabrò C, Vecchio M, **Di Mauro D**, Renis M, Ientile R, Currò M, Caccamo D. *Life Sci*. 15;145:27-33. 2016
31. **Muscle contracture diagnosis: the role of sonoelastography.** Bruschetta D, Milardi D, Trimarchi F, **DI Mauro D**, Valenti A, Arrigo A, Valenti B, Santoro G, Cascio F, Vaccarino G, Cacciola A. *J Sports Med Phys Fitness*. 56(12):1518-1525. Epub 2016 Mar 18. 2016.
32. **The Oxidative Stress Response in Elite Water Polo Players: Effects of Genetic Background.** Vecchio M, Currò M, Trimarchi F, Naccari S, Caccamo D, Ientile R, Barreca D, **Di Mauro D**. *Biomed Res Int*.7019694. doi: 10.1155/2017/7019694. 2017
33. **Persistent left superior vena cava and partially left inferior vena cava: a case report of a dangerous central venous catheterization.** Ricciardi B, Ricciardi CA, Lacquaniti A, Carella G, Puzzolo D, Pisani A, **Di Mauro D**, Micali A. *J Vasc Access*.11;18(5):e66-e69.doi: 10.5301/jva.5000722. 2017
34. **Analysis on sarcoglycans expression as markers of septic cardiomyopathy in sepsis-related death.** Ventura Spagnolo E, Mondello C, **Di Mauro D**, Vermiglio G, Asmundo A, Filippini E, Alibrandi A, Rizzo G. *Int J Legal Med*. 11. doi: 10.1007/s00414-018-1840-6. 2018
35. **The Limbic and Sensorimotor Pathways of the Human Amygdala: A Structural Connectivity Study.** Rizzo G, Milardi D, Bertino S, Basile GA, **Di Mauro D**, Calamuneri A, Chillemi G, Silvestri G, Anastasi G, Bramanti A, Cacciola A. *Neuroscience*.10;385:166-180.doi: 10.1016/j.neuroscience.2018.05.051. Epub 2018 Jun 15. 2018
36. **Role of Genetic Background in Cardiovascular Risk Markers Changes in Water Polo Players.** **Di Mauro D**, Currò M, Trimarchi F, Vecchio M, Rizzo G, Barreca D, Visalli G, Ientile R, Caccamo D. *Int J Sports Med*. 39(5):390-396. doi: 10.1055/s-0044-101459. Epub 2018 Mar 21. 2018

37. **Human calf muscles changes after strength training as revealed by diffusion tensor imaging** Bruschetta D, Anastasi G, Andronaco V, Cascio F, Rizzo G, **Di Mauro D**, Bonanno L, Izzo V, Buda D, Vermiglio G, Bertino S, Cacciola G, Bramanti A, Milardi D. *J Sports Med Phys Fitness*. 2019; 59(5):853-860. doi: 10.23736/S0022-4707.18.08759-5. Epub 2018
38. **Mapping the structural connectivity between the periaqueductal gray and the cerebellum in humans.** Cacciola A, Bertino S, Basile GA, **Di Mauro D**, Calamuneri A, Chillemi G, Duca A, Bruschetta D, Flace P, Favalaro A, Calabrò RS, Anastasi G, Milardi D. *Brain Struct Funct*. 2Jul;224(6):2153-2165. doi: 10.1007/s00429-019-01893-x. Epub 2019.
39. **An immunofluorescence study on VEGF and extracellular matrix proteins in human periodontal ligament during tooth movement** Militi A., Cutroneo G., Favalaro A., Matarese G., **Di Mauro D.**, Lauritano F., Centofanti A., Cervino G., Nicita F., Bramanti A., Rizzo G. *Heliyon* vol. 5, p. 1-10 2019
40. **Comparative investigation of cutting devices on bone blocks: An SEM morphological analysis.** Lo Giudice R., Puleio F., Rizzo D., Alibrandi A., Lo Giudice G., Centofanti A., Fiorillo L., **Di Mauro D.**, Nicita F. *Applied Sciences*. 9 p. 1-12. 2019. ISSN: 2076-3417, doi: 10.3390/app9020351
41. **Teaching rowing to school children: a pilot study.** Ficarra G, Trimarchi F, Restuccia R, Mannucci C, **Di Mauro D**. *SunKrist Sports Medicine and Research Journal* 2, Issue 1 p 1-7. 2021
42. **Mutual Influence of Psoriasis and Sport.** Custurone P., Macca L., Bertino L., **Di Mauro D.**, Trimarchi F., Vaccaro M., Borgia F. *Medicina (Kaunas)* 10;57(2):161 2021 ISSN:1010-660X,doi: 10.3390/medicina57020161.
43. **Irisin and Vascular Inflammation: Beneficial Effects of a Healthy Lifestyle Around and Beyond Physical Activity.** Restuccia R, Perani F, Ficarra G, Trimarchi F, Bitto A, **Di Mauro D**. *Curr Pharm Des*. 2021 Feb 8. doi: 10.2174/1381612827666210208154105. Epub ahead of print. PMID: 33557732.
44. **Saliva testing as noninvasive way for monitoring exercise-dependent response in teenage elite water polo players.** Nadia Ferlazzo, Monica Currò, Caterina Saija, Francesco Naccari, Riccardo Ientile, **Debora Di Mauro**, Fabio Trimarchi, Daniela Caccamo. *Medicine (Baltimore)* 2021 Nov 19;100(46):e27847. doi: 10.1097/MD.00000000000027847.

Debora Di Mauro

