

PERSONAL INFORMATION **Federico Schena**

Current Position: Full Professor SSD M-EDF/02

PhD awarded less than 10 Years ago: No

Scientific Profile:

From 1982 involved in researches in the area of human and exercise physiology at University of Verona, Geneva, Trento. In this field he experienced different approaches from cardiovascular to energetic of muscle metabolism, biomechanics and integrative basis for sport performance. Starting from this basic skills in human function he also improved his knowledges on exercise and physical activities effects with special reference to diseased person and ageing in which starting from on holistic view of movement he moved to focus also cellular and molecular aspects that define an innovative approach toward exercise as a paradigm of personalized medicine.

Actual scientific interests

- energetic and biomechanics of human performance and locomotion
- exercise programs for diseased persons
- interaction between exercise and ageing processes

GOLDEN PARAGRAPH

Bibliometric Indicators:

Publications: 347; # Citations 5994; H index 45; H Index (5 y) 26

3 most relevant publications or patents:

- Venturelli M., Reggiani C., Richardson R.S., Schena F. Skeletal muscle function in the oldest-old: the role of intrinsic and extrinsic factors. *EXERCISE AND SPORT SCIENCES REVIEWS* vol. 46 pp. 188-194 **2018** ISSN: 0091-6331, doi: 10.1249/JES.0000000000000155;
- Pedrinolla A., Venturelli M., Tamburin S., Fonte C., Stabile A.M., Galazzo I.B., Ghinassi B., Venneri M.A., Pizzini F.B., Muti E., Smania N., Baldassarre A.D., Naro F., Rende M., Schena F. Non-A β -Dependent Factors Associated with Global Cognitive and Physical Function in Alzheimer's Disease: A Pilot Multivariate Analysis. *JOURNAL OF CLINICAL MEDICINE* vol. 8:224 **2019** ISSN: 2077-0383, doi: 10.3390/jcm8020224.
- Fochi S., Giuriato G., De Simone T., Gomez-Lira M., Tamburin S., Del Piccolo L., Schena F., Venturelli M., Romanelli M.G. Regulation of microRNAs in Satellite Cell Renewal, Muscle Function, Sarcopenia and the Role of Exercise. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES* vol. 21:6732 **2020** ISSN: 1422-0067, doi.org/10.3390/ijms21186732

WORK EXPERIENCE

1988-1992

Visiting Researcher Dept Physiologie, University of Geneva

1999-2002

Researcher of Physiology, University of Trento

2002-2006

Associate Professor of Physiology, University of Trento

2006 – Current

Full Professor Sport Sciences (SSD M-EDF/02) University of Verona

Main duties/responsibilities:

2010 – Current

Director Research Center Sport Mountain & Health, University of Verona (www.cerism.it)

Sector:

Academic Sector: Exercise and Sport Sciences; Sport Medicine

EDUCATION AND TRAINING

1979-1985

Degree in medicine and surgery

University of Verona

1986 -1989

Medical specialization in Sport Medicine

University of Turin

1989- 1992

PhD in Physiology

University of Turin

Research methodology on human cardiovascular functions

PERSONAL SKILLS

Organisational / managerial
skills

General organization in academic framework covering from 2009 to now many different roles among those: Rector Delegate for Education (2y), Rector delegate for Sport(12y); Vice Dean Faculty of Sport Sciences (4y); Vice Department Director of Department Neuroscience (7y), Biomedicine and Movement.

Founder and director of innovative research center in exercise and sport area (CeRiSM, Rovereto, Italy) actually including 6 labs and a team of 15 people.

Chief of Sport Science scientific area at University of Verona ranked 4° in worldwide ARWU of Shanghai University

Founder (2007), Secretary (2007-2010) President (2010-2013) of the Italian Society of Sport Sciences (SISMES)

Medical Chief of Italian ski team from 2003-2010 (including 2 Olympic events).

ADDITIONAL INFORMATION

**Most relevant publications
in the last 10 Years**

1-Martignon C., Laginestra F.G., Giuriato G., Pedrinolla A., Barbi C., Di Vico I.A., Tinazzi M., Schena F., Venturelli M. Evidence That Neuromuscular Fatigue Is Not a Dogma in Patients with Parkinson's Disease. *MEDICINE AND SCIENCE IN SPORTS AND EXERCISE* vol. 54 pp. 247-257 **2022** ISSN: 0195-9131 doi: 10.1249/MSS.0000000000002791.

2-Muollo V., Rossi A.P., Zignoli A., Teso M., Milanese C., Cavedon V., Zamboni M., Schena F., Capelli C., Pogliaghi S. Full characterisation of knee extensors' function in ageing: effect of sex and obesity. *INTERNATIONAL JOURNAL OF OBESITY* vol.45 pp. 895-905 **2021** ISSN: 0307-0565, doi: 10.1038/s41366-021-00755-z.

3-Cavedon V., Milanese C., Laginestra F.G., Giuriato G., Pedrinolla A., Ruzzante F., Schena F., Venturelli M. Bone and skeletal muscle changes in oldest-old women: the role of physical inactivity. *AGING-CLINICAL AND EXPERIMENTAL RESEARCH* vol. 32 pp. 207-214 **2020** ISSN: 0394-9532, doi: 10.1007/s40520-019-01352-x.

4-Moggetti P., Balducci S., Guidetti L., Mazzuca P., Rossi E., Schena F. Walking for subjects with type 2 diabetes: A systematic review and joint AMD/SID/SISMES evidence-based practical guideline.

NUTRITION METABOLISM & CARDIOVASCULAR DISEASES vol 30 pp. 1882-1898 **2020** ISSN: 0939-4753, doi: 10.1016/j.numecd.2020.08.021.

5-Pedrinolla A., Colosio A.L., Magliozzi R., Danese E., Kirmizi E., Rossi S., Pogliaghi S., Calabrese M., Gelati M., Muti E., Cè E., Longo S., Esposito F., Lippi G., Schena F., Venturelli M. **The Vascular Side of Chronic Bed Rest: When a Therapeutic Approach Becomes Deleterious.** *JOURNAL OF CLINICAL MEDICINE* vol. 9: 918 **2020** ISSN: 2077-0383, doi: 10.3390/jcm9040918.

6-Dalle Carbonare L., Mottes M., Cheri S., Deiana M., Zamboni F., Gabbiani D., Schena F., Salvagno G.L., Lippi G., Valenti M.T. **Increased Gene Expression of RUNX2 and SOX9 in Mesenchymal Circulating Progenitors Is Associated with Autophagy during Physical Activity.** *OXIDATIVE MEDICINE AND CELLULAR LONGEVITY* Article ID 8426259, 14 pages, **2019** ISSN: 19421-0900, doi.org: 10.1155/2019/8426259.

7-Fiorenza M., Gunnarsson T.P., Hostrup M., Iaia F.M., Schena F., Pilegaard H., Bangsbo J. **Metabolic stress-dependent regulation of the mitochondrial biogenic molecular response to high-intensity exercise in human skeletal muscle.** *JOURNAL OF PHYSIOLOGY (LONDON)* vol. 596 pp. 2823-2840 2018 ISSN: 0022-3751, doi: 10.1113/JP275972

8-Venturelli M., Reggiani C., Richardson R.S., Schena F. **Skeletal muscle function in the oldest-old: the role of intrinsic and extrinsic factors.** *EXERCISE AND SPORT SCIENCES REVIEWS* vol. 46 pp. 188-194 **2018** ISSN: 0091-6331, doi: 10.1249/JES.000000000000155.

9-Pedrinolla A., Venturelli M., Tamburin S., Fonte C., Stabile A.M., Galazzo I.B., Ghinassi B., Venneri M.A., Pizzini F.B., Muti E., Smania N., Baldassarre A.D., Naro F., Rende M., Schena F. **Non- α -Dependent Factors Associated with Global Cognitive and Physical Function in Alzheimer's Disease: A Pilot Multivariate Analysis.** *JOURNAL OF CLINICAL MEDICINE* vol. 8:224 **2019** ISSN: 2077-0383, doi: 10.3390/jcm8020224.

10-Fochi S., Giuriato G., De Simone T., Gomez-Lira M., Tamburin S., Del Piccolo L., Schena F., Venturelli M., Romanelli M.G. **Regulation of microRNAs in Satellite Cell Renewal, Muscle Function, Sarcopenia and the Role of Exercise.** *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES* vol. 21:6732 **2020** ISSN: 1422-0067, doi.org/10.3390/ijms21186732

Projects/Grants

2011-2014

PRIN UO

Impact of physical activity on successful aging: multidisciplinary analysis of mechanisms and outcomes

250.000 EUROS

2017-2019

PRIN PI

Actilife: IS ACTIVE LIFE STYLE ENOUGH FOR HEALTH AND WELLBEING?

650.000 EUROS

2017-2022

MUR Department of Excellence PI

Behaviours and wellbeing

8.100.000 EUROS

2021-2023

UIA, EU UO

STEPS, Sharing Time Enhance

450.000 EUROS

Autorizzo il trattamento dei miei dati personali presenti nel cv ai sensi dell'art. 13 del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali" e dell'art. 13 del GDPR (Regolamento UE 2016/679)

Verona 29 agosto 2022

