

Dr. Guido Ferretti

CURRICULUM VITAE

PERSONAL DATA

FAMILYNAME : FERRETTI
FIRST NAME : Guido
NATIONALITY : Italian
PLACE AND DATE OF BIRTH : Torino, Italy, March 18th 1956
CIVIL STATUS : Married, three children

CONTACTS

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CURRENT POSITION

Professor of Physiology, Department of Molecular and Translational Medicine, School of Medicine, University of Brescia, Italy (part time)

and

Professor of Clinical Physiology, Departments of Anesthesiology, Clinical Pharmacology and Intensive Care, and of Basic Neuroscience, University of Geneva, Switzerland (part time)

EDUCATION

July 1974 : Maturità Classica, Liceo C. Beccaria, Milano, Italy.
July 1981 : Medicine Doctor, Università di Milano, Italy.
July 1984 : Medical Specilization in Sports Medicine (cum laude), Università di Milano, Italy.

January 1998
Habilitation (Libera Docenza) in Human Physiology,
School of Medicine, University of Geneva,
Switzerland.

PROFESSIONAL EXPERIENCE

November 1981 - October 1983: Collaboratore Professionale, Department of Biomedical Technologies, School of Medicine, Università di Milano, Italy.

November 1983 - May 1985: Assistant, Institute of Human Physiology, School of Medicine, Università di Brescia, Italy.

June 1985 - September 1988: Assistant, Department of Physiology, School of Medicine, University of Geneva, Switzerland.

October 1988 - January 1992: Maître Assistant, Department of Physiology, School of Medicine, University of Geneva, Switzerland

February 1992 – September 2003: Maître d'Enseignement et de Recherche, Department of Physiology, School of Medicine, University of Geneva, Switzerland (part time since 2002)

November 2001 – October 2012: Professor of Physiology, Department of Biomedical Sciences and Biotechnologies, School of Medicine, University of Brescia, Italy (part time)

October 2003 – December 2013: Maître d'Enseignement et de Recherche, Department of Basic Neuroscience, School of Medicine, University of Geneva, Switzerland (part time since 2002)

November 2012 – January 2016: Professor of Physiology, Department of Clinical and Experimental Science, School of Medicine, University of Brescia, Italy (part time)

January 2014 – November 2014: Professor of Clinical Physiology, Department of Basic Neuroscience, School of Medicine, University of Geneva, Switzerland (part time)

December 2014 – to date
Professor of Clinical Physiology, Departments of Anesthesiology, Clinical Pharmacology and Intensive Care and of Basic Neuroscience, University of Geneva, Switzerland (part time)

4. Energetics and biomechanics of human locomotion.

Research grants

- 1988 - 1990 "Ventilation and gas exchange during exercise transients in normal subjects and heart transplant recipient patients"
FNSRS, **FS 96,200**, together with Prof. P. Cerretelli.
- 1988 - 1990 "Effects of Solcoseryl® on extreme endurance exercise in humans"
Solco Basel SA, **SF 105,950**.
- 1990 - 1994 "Control of ventilation in heart and lung transplant recipients"
FNSRS, **SF 330,414**, together with Prof. P. Cerretelli.
- 1993 - 1996 "Factors limiting oxygen transport in humans"
EFSM, **SF 60,000**.
- 1994 - 1995 "Regulation of cardiovascular response to exercise in humans"
ESA-PRODEX, for technical developments, **FS 540,000**.
- 1994 - 1997 "Gas exchange and cardiac regulation in heart transplant recipient children"
FNSRS, **SF 293,132**, together with Prof. P. Cerretelli.
- 1995 - 1998 "The effects of nicethamide on the ventilatory response to exercise in hypoxia"
Zyma AG, **SF 145,930**, together with Prof. P. Cerretelli.
- 1997 - 2000 "Cardiovascular oxygen transport in exercising humans"
FNSRS, **SF 184,500**.
- 1998 - 2001 "Evaluation of the energy cost of treadmill tests under varying speed and incline condition in patients with chronic obstructive arteriopathy and claudicatio intermittens"
Sigma-Tau, **SF 58,128**.
- 2000 – 2003 "Dynamics of oxygen transport in humans : posture, exercise and hypoxia"
FNSRS, **SF 133.000**.
- 2001 – 2003 "Energetic constraints of mounting running"
OFSPO, **SF 78.540**.
- 2001 – 2003 "Cardiopulmonary consequences of prolonged bed rest in humans"
FNSRS, **SF 74.390**
- 2003 – 2006 " Effects of gravity acceleration on oxygen uptake, cardiac output and autonomic control of heart function during exercise in humans"
FNSRS, **SF 176.118**
- 2006 – 2008 "Determinants of running performance in top-level Kenyan athletes"
OFSPO, **SF 83.060**
- 2006 – 2009 "Dynamics of pulmonary gas exchange and systemic oxygen delivery during exercise transients in humans"
FNSRS, **SF 260.000**
- 2008 – 2010 "Neurovegetative system and exercise in lung transplant recipients"

MIUR – PRIN, Italy, **€31.500**

- 2009 – 2010 “Safety in SCUBA diving : decompression, bubble formation and evaluation of physiological parameters”
CCM, Italy, **€200.000**
- 2009 – 2012 “Dynamics of pulmonary gas exchange and systemic oxygen delivery during exercise in patients affected by specific cardiopulmonary diseases”
FNSRS, **SF 375.000**
- 2012 – 2016 “Dynamics of cardio-pulmonary response to exercise in patients affected by essential hypertension”
FNSRS, **SF 412.267**
- 2013 – 2014 “Smart ECG. A miniaturized device with high energetic efficiency for very-long-term monitoring of ECG: technological, clinical and scientific aspects”
Fondazione EULO, **€23.200**
- 2016 – 2018 “#Studio per la vita”
Bando di Ateneo Health and Wealth at Unibs, **€ 18.200**, together with Prof. Alessandra Flammini
- 2017 – 2019 “Elaborazione di un metodo di allenamento sicuro ed efficace in condizioni di atmosfera controllata”
ISOLCELL spa, **€37.000**

International research contracts

- 1994 - 1996 European Space Agency, jointly with Centre National d'Etudes Spatiales, France, for participation in the 1994 LT-HDT Bed Rest campaign, with experiment ESA/LT/023, entitled “Effects of long term bed rest on the biomechanical and the bioenergetic characteristics of human skeletal muscle and on the factors limiting maximal oxygen consumption”.
- 1994 - 1996 European Space Agency, for participation in the Euromir 95 programme, with experiment 21-CH, entitled “Regulation of cardiovascular response to exercise in humans”.
- 1998 - 2002 European Space Agency, for participation in the programme ESA-AO-97-LS-ARMS, as co-investigator of experiment 7-S (P. I. Prof. Dag Linnarsson, Karolinska Institute, Stockholm, Sweden), entitled “Cardiopulmonary and muscular adaptations during and after microgravity”.
- 2000 - 2003 European Space Agency, jointly with Centre national d'études spatiales, France, for participation in the programme ESA-AO-99-LS-BR, with the project 001, entitled "Respiratory, circulatory, muscular and bone consequences of inactivity and rehabilitation in humans".
- 2000 - 2003 European Space Agency, for participation in the programme ESA-AO-2000-LS-BR-SHORT, as co-investigator of project 002 (Principal Investigator : Prof. Carlo Capelli, Università di Udine), entitled "Cardiopulmonary consequences of short term bed rest".
- 2003 - 2006 European Space Agency, jointly with Karolinska Institute, Stockholm, Sweden, for participation in the programme ESA-RA-LS-01-LSRA, with the project 067, entitled "Effects of gravity acceleration on oxygen uptake during exercise in human".

2008 – 2009 Italian Space Agency, in collaboration with Primorska University, Kopar, Slovenia, for participation in the prolonged bed rest programme that the two institutions jointly organised in Ankaran, Slovenia, in association with the CCMC research group of the Italian Space Agency.

Editorial activities

September 2009 – to date Distributing editor for Environmental Physiology, European Journal of Applied Physiology

Muscular exercise at high altitude. Edited by G. Ferretti and P. Cerretelli. Int. J. Sports Med. Suppl. 1, 1990.

1. Guest Referee, The Journal of Physiology
2. Guest Referee, American Journal of Physiology
3. Guest Referee, Journal of Applied Physiology
4. Guest Referee, Pflügers Archiv.
5. Guest Referee, European Journal of Applied Physiology.
6. Guest Referee, Respiration Physiology and Neurobiology.
7. Guest Referee, Journal of Experimental Biology.
8. Guest Referee, International Journal of Sports Medicine.
9. Guest Referee, Undersea and Hyperbaric Medicine.
10. Guest Referee, Anesthesiology.

Organisation of meetings and symposia

European College of Sport Science, the Manchester Meeting, July 15-18, 1998. Symposium :
PHYSIOLOGY IN SPACE : HOW PHYSIOLOGICAL SYSTEMS DEGRADE.

Satellite Course, European College of Sport Science, the Rome meeting, July 13-14, 1999
INTEGRATIVE MUSCLE PHYSIOLOGY
Jointly organised by Roberto Bottinelli, Marco Ferrari , **Guido Ferretti** and Marco Narici

VII IOC World Congress on Sports Science, Athens, October 7-11, 2003 Symposium
COUNTERMEASURES FOR MAN IN SPACE

International Congress "Mountain and Sport", on the occasion of 10th anniversary of *Centro di Bioingegneria e Scienze Motorie*, Rovereto, Italy,
Jointly organised by Carlo Capelli, **Guido Ferretti**, Guido Fumagalli and Federico Schena

Numerous invited conferences in international and national meetings

ADMINISTRATION

In academic context

1999 – 2000	Member of Groupe de Travail Médecine et Sport, Faculté de Médecine, Université de Genève (chairman Prof. Jean-Philippe Bonjour)
1999 – to date	Member of Comité de Programme pour les années 1 – 3, Faculté de Médecine, Université de Genève
2001 – to date	Member of Consiglio di Corso di Laurea in Medicina e Chirurgia, Università di Brescia
2001 – to date	Member of Scientific Council of Centro di Bioingegneria e Scienze Motorie, Rovereto, Italy
2002 – to date	Member of Consiglio di Corso di Laurea in Scienze Motorie, Università di Brescia
2010 – to date	Coordinator, Aggregate School of Specialisation in Sport Medicine of the Universities of Brescia, Milano Bicocca and Pavia, Italy.
2012 – 2014	Member of “Giunta del Collegio dei Professori Ordinari di Fisiologia”, Italy
2013 – 2015	Member, Task Force of Health and Wealth at Unibs, University of Brescia
2014 – to date	Member of the Board of the Italian Physiological Society
2015 – 2016	Member of the “Commissione di Concorso di Primo Ricercatore”, National Research Council, Italy
2016 – to date	Member of the Nomination Committee, Federation of European Physiological Societies

Internal or external reviewer for professorial appointments in various universities in Switzerland, Italy and the United Kingdom.

At the Ministry of Health, Italy

2009 - 2013	Member of Commissione Interministeriale Sanità e Sport (president : Prof. Ferruccio Fazio, State Minister of Health), established by the Ministers of Health and of Sport of the Italian Republic, aimed at setting up a project for the introduction of exercise as a preventive and therapeutic tool in the Italian Health System.
2009 - 2011	Personal councillor of the Minister of Health for sport items.
2011 – 2015	Consultant of Consiglio Superiore di Sanità, Minister of Health, Italian Republic, for sport issues.

Scientific functions for other institutions

Referee, Fonds national suisse de la recherche scientifique

Referee, Commission de recherche, Office fédéral du sport de Macolin.

Referee, Projets thématiques, Région Rhône-Alpes, France

Referee, Programmi di Ricerca di Interesse Nazionale, Ministero dell'Università e della Ricerca Scientifica, Italia

Referee, Netherlands Institute for Space Research

Member of reviewing committee, European Space Agency, ESA-AO-2004

Member of the panel of experts established by the European Space Agency for the definition of scientific priorities to be set in the Life Science 5-year Plan, ELIPSE, for the period 2009-2014.

PUBLICATIONS

Original articles in international peer-reviewed journals

H index : Google Scholar 37, Web of Science 29

1. Veicsteinas A, **G. Ferretti** et DW Rennie. Superficial shell insulation in resting and exercising men in cold water. *J. Appl. Physiol.* 1982, 52: 1557-1564.
2. Veicsteinas A, **G. Ferretti**, V Margonato, G Rosa et D Tagliabue. Energy cost of and energy sources for alpine skiing in top athletes. *J. Appl. Physiol.* 1984, 56: 1187-1190.
3. Oelz O, H Howald, PE di Prampero, H Hoppeler, H Claassen, R Jenni, A Bühlmann, **G. Ferretti**, JC Brückner, A Veicsteinas, M Gussoni et P Cerretelli. Physiological profile of world class high altitude climbers. *J. Appl. Physiol.* 1986, 60: 1734-1742.
4. **Ferretti G**, M Gussoni, PE di Prampero et P Cerretelli. Effects of exercise on maximal instantaneous muscular power of humans. *J. Appl. Physiol.* 1987, 62: 2288-2294.
5. **Ferretti G**, A Veicsteinas et DW Rennie. Regional heat flows of resting and exercising men immersed in cold water. *J. Appl. Physiol.* 1988, 64: 1239-1248.
6. **Ferretti G**, A Veicsteinas et DW Rennie. Conductive and convective heat flows of exercising humans in cold water. *J. Appl. Physiol.* 1989, 67: 2473-2480.
7. **Ferretti G**, U Boutellier, DR Pendergast, C Moia, AE Minetti, H Howald et PE di Prampero. Muscular exercise at high altitude. IV. Oxygen transport system before and after exposure to chronic hypoxia. *Int. J. Sports Med.* 1990, 11: S15-S20.
8. **Ferretti G**, H Hauser et PE di Prampero. Muscular exercise at high altitude. VII. Maximal muscular power before and after exposure to chronic hypoxia. *Int. J. Sports Med.* 1990, 11: S31-S34.
9. di Prampero PE et **G. Ferretti**. Factors limiting maximal oxygen consumption in humans. *Respir. Physiol.* 1990, 80: 113-128.
10. Binzoni T, **G. Ferretti**, F Barbalat et P Cerretelli. Energetics of resting anaerobic frog gastrocnemius at different temperatures by ³¹P-NMR. *Respir. Physiol.* 1990, 82: 137-148.
11. **Ferretti G**. On maximal oxygen consumption in hypoxic humans. *Experientia* 1990, 46: 1188-1194.
12. **Ferretti G**, G Atchou, B Grassi, C Marconi et P Cerretelli. Energetics of locomotion in African Pygmies. *Eur. J. Appl. Physiol.* 1991, 62: 7-10.

13. **Ferretti G**, M Costa, M Ferrigno, B Grassi, C Marconi, CEG Lundgren et P Cerretelli. Alveolar gas composition and exchange during deep breath-hold diving and dry breath-holds in elite divers. *J. Appl. Physiol.* 1991, 70: 794-802.
14. Ferrigno M, B Grassi, **G. Ferretti**, M Costa, C Marconi, P Cerretelli et CEG Lundgren. Electrocardiogram during deep breath-hold dives by elite divers. *Undersea Biomed. Res.* 1991, 18: 81-91.
15. **Ferretti G**, M Ishii, C Moia et P Cerretelli. Effects of temperature on the maximal instantaneous muscle power of humans. *Eur. J. Appl. Physiol.* 1992, 64: 112-116.
16. Cerretelli P, C Marconi, M Meyer, **G. Ferretti** et B Grassi. Gas exchange kinetics in heart transplant recipients. *Chest* 1992, 101: 199S-205S.
17. Ishii M, **G. Ferretti** et P Cerretelli. Effects of muscle temperature on the VO₂ kinetics at the onset of exercise in man. *Respir. Physiol.* 1992, 88: 343-353.
18. Feroldi P, M Belleri, **G. Ferretti** et A Veicsteinas. Heart rate overshoot at the beginning of muscle exercise. *Eur. J. Appl. Physiol.* 1992, 65: 8-12.
19. Zamparo P, R Perini, C Orizio, M Sacher et **G. Ferretti**. The energy cost of walking or running on sand. *Eur. J. Appl. Physiol.* 1992, 65: 183-187.
20. **Ferretti G**, B Kayser, F Schena, DL Turner et H Hoppeler. Regulation of perfusive O₂ transport during exercise in humans: effects of changes in haemoglobin concentration. *J. Physiol. (Lond.)* 1992, 455: 679-688.
21. Binzoni T, **G. Ferretti**, K Schenker, F Barbalat, E Hiltbrand et P Cerretelli. Metabolic transient studies by NMR. *Int. J. Sports Med.* 1992, 13: S155-S157.
22. **Ferretti G**. Cold and muscle performance. *Int. J. Sports Med.* 1992, 13: S185-S187.
23. Binzoni T, **G. Ferretti**, K Schenker et P Cerretelli. Phosphocreatine hydrolysis by ³¹P-NMR at the onset of constant-load exercise in humans. *J. Appl. Physiol.* 1992, 73: 1644-1649.
24. Grassi B, **G. Ferretti**, L Xi, M Rieu, C Marconi et P Cerretelli. Ventilatory response to exercise after heart and lung denervation in humans. *Respir. Physiol.* 1993, 92: 289-304.
25. Turner DL, H Hoppeler, C Noti, HP Gurtner, H Gerber, F Schena, B Kayser et **G. Ferretti**. Limitations to VO₂max in humans after blood retransfusion. *Respir. Physiol.* 1993, 92: 329-341.
26. Capelli C, G Rosa, F Butti, **G. Ferretti**, A Veicsteinas et PE di Prampero. Energy cost and efficiency of riding aerodynamic bicycles. *Eur. J. Appl. Physiol.* 1993, 65: 144-149.
27. Kayser B, **G. Ferretti**, B Grassi, T Binzoni et P Cerretelli. Maximal lactic capacity at altitude: effect of bicarbonate loading. *J. Appl. Physiol.* 1993, 75: 1070-1074.
28. Gariod L, T Binzoni, **G. Ferretti**, JF Le Bas, H Reutenauer et P Cerretelli. Standardisation of ³¹P-NMRS determinations of high energy phosphates in humans. *Eur. J. Appl. Physiol.* 1994, 68: 107-110.
29. **Ferretti G**, MV Narici, T Binzoni, L Gariod, JF Le Bas, H Reutenauer et P Cerretelli. Determinants of peak muscle power: effects of age and physical conditioning. *Eur. J. Appl. Physiol.* 1994, 68: 111-115.
30. Minetti AE, F Saibene, G Atchou, F Schena, LP Ardigò et **G. Ferretti**. Pygmy locomotion. *Eur. J. Appl. Physiol.* 1994, 68: 285-290.

31. Grassi B, **G. Ferretti**, M Costa, M Ferrigno, A Panzacchi, CEG Lundgren, C Marconi et P Cerretelli. Ventilatory response to oxygen and carbon dioxide in elite breath-hold divers. *Respir. Physiol.* 1994, 97: 323-332.
32. **Ferretti G** et PE di Prampero. Factors limiting maximal oxygen consumption in humans: the effects of acute changes in ventilation. *Respir. Physiol.* 1995, 99: 259-271.
33. Favier R, H Spielvogel, D Desplanches, **G. Ferretti**, B Kayser et H Hoppeler. Maximal exercise performance in chronic hypoxia and acute normoxia in high altitude natives. *J. Appl. Physiol.*, 1995, 78: 1868-1874.
34. Favier R, H Spielvogel, D Desplanches, **G. Ferretti**, B Kayser, A. Grünenfelder, M. Leuenberger, L. Tüscher, E. Caceres et H Hoppeler. Training in hypoxia vs training in normoxia in high altitude natives. *J. Appl. Physiol.*, 1995, 78: 2286-2293.
35. Grassi B, **G. Ferretti**, B Kayser, M Marzorati, A Colombini, C Marconi et P Cerretelli. Maximal rate of blood lactate accumulation during exercise at altitude in humans. *J. Appl. Physiol.*, 1995, 79: 331-339.
36. Höchli D, T Schneiter, **G. Ferretti**, H Howald, H Claassen, C Moia, G Atchou, M Belleri, A Veicsteinas et H Hoppeler. Loss of muscle oxidative capacity after an extreme endurance run : the Paris - Dakar foot race. *Int. J. Sports Med.*, 1995, 16: 343-346.
37. Cerretelli P, B Grassi, L Xi, F Schena, C Marconi, M Meyer et **G. Ferretti**. The role of pulmonary CO₂ flow in the control of the "phase 1" ventilatory response to exercise in humans. *Eur. J. Appl. Physiol.*, 1995, 71: 287-294.
38. Binzoni T, E Hiltbrand, B Kayser, **G. Ferretti** et F Terrier. Human intramuscular temperature and heat flow transients at rest. *J. Appl. Physiol.*, 1995, 79: 1736-1743.
39. **Ferretti G**, T Binzoni, N Hulo, B Kayser, JM Thomet et P Cerretelli. The kinetics of oxygen consumption during maximal exercise at different muscle temperatures. *Respir. Physiol.*, 1995, 102: 261-268.
40. Desplanches D, H Hoppeler, L Tüscher, MH Mayet, H Spielvogel, **G. Ferretti**, B Kayser, M Leuenberger, A Grünenfelder et R Favier. Muscle tissue adaptations of highlanders to training in chronic hypoxia or acute normoxia. *J. Appl. Physiol.*, 1996, 81: 1946-1951.
41. Kayser B, R Favier, **G. Ferretti**, D Desplanches, H Spielvogel, H Koubi, B Sempore et H Hoppeler. Lactate and epinephrine during exercise in altitude natives. *J. Appl. Physiol.*, 1996, 81: 2488-2494.
42. Meyer M, C Marconi, **G. Ferretti**, R Fiocchi, P Cerretelli, JE Skinner. Heart rate variability in the human transplanted heart: nonlinear dynamics and QT vs RR-QT alterations during exercise suggest a return of neurocardiac regulation in long-term recovery. *Integr. Physiol. Behav. Sci.* 1996, 31: 289-305.
43. **Ferretti G**, C Moia, JM Thomet et B Kayser. The decrease of maximal oxygen consumption in hypoxia: a mirror image of the oxygen equilibrium curve. *J. Physiol. (Lond.)*, 1997, 498: 231-237.
44. **Ferretti G**, G Antonutto, C Denis, H Hoppeler, AE Minetti, MV Narici et D Desplanches. The interplay of central and peripheral factors in limiting maximal O₂ consumption in man: the effects of prolonged bed rest. *J. Physiol. (Lond.)*, 1997, 501: 677-686.
45. Esposito F et **G. Ferretti**. The effects of breathing He-O₂ mixtures on maximal oxygen consumption in normoxic and hypoxic men. *J. Physiol. (Lond.)*, 1997, 503: 215-221.
46. Ferrigno M, **G. Ferretti**, A Ellis, D Warkander, M Costa, P Cerretelli, et CEG Lundgren. Cardiovascular changes during deep breath-hold dives in a pressure chamber. *J. Appl. Physiol.*, 1997, 83: 1282-1290.

47. **Ferretti G.** The effect of prolonged bed rest on maximal instantaneous muscle power and its determinants. *Int. J. Sports Med.*, 1997, 18: S287-S289.
48. Turner DL, H Hoppeler, H Claassen, P Vock, B Kayser, F Schena et **G. Ferretti.** Endurance training causes different adaptations in human arm and leg muscles. *Acta Physiol. Scand.*, 1997, 161: 459-464.
49. Desplanches D, H Hoppeler, MH Mayet, C Denis, H Claassen et **G. Ferretti.** Effects of bed rest on deltoid muscle morphology and enzymes. *Acta Physiol. Scand.*, 1998, 162: 135-140.
50. Thomas RG, PC LaStayo, H Hoppeler, R Favier, **G. Ferretti**, B Kayser, D Desplanches, H Spielvogel et SL Lindstedt. Exercise training in chronic hypoxia has no effect on ventilatory muscle function in humans. *Respir. Physiol.* 1998, 112: 195-202.
51. **Ferretti G**, M Girardis, C Moia et G Antonutto. The effects of prolonged bed rest on cardiovascular oxygen transport during submaximal exercise in humans. *Eur. J. Appl. Physiol.*, 1998, 78: 398-402.
52. Girardis M, D Linnarsson, C Moia, DR Pendergast and **G. Ferretti.** The effects of gravity acceleration on oxygen consumption during cycle ergometry. *Acta Physiol. Scand.*, 1999, 166: 239-246.
53. Narici MV, **G. Ferretti**, D Susta, G Faglia and A Sartorio. Maximum anaerobic performance of childhood-onset GH deficient adults. *Growth Horm. IGF Res.*, 1999, 9: 228-235.
54. di Prampero PE and **G. Ferretti.** The energetics of anaerobic lactic metabolism : a reappraisal of older and recent arguments. *Respir. Physiol.* 1999, 118: 103-115.
55. **Ferretti G.**, HE Berg, AE Minetti, C Moia and MV Narici. Maximal instantaneous muscular power after prolonged bed rest in humans. *J. Appl. Physiol.*, 2001, 90: 431-435.
56. **Ferretti G.** Extreme human breath-hold diving. *Eur. J. Appl. Physiol.*, 2001, 84: 254-271.
57. Anchisi S, C Moia and **G. Ferretti.** Oxygen delivery and oxygen return in humans exercising in acute normobaric hypoxia. *Pflügers Arch.* 2001, 442: 443-450
58. **Ferretti G**, C Marconi, G Achilli, E Caspani, R Fiocchi, F Mamprin, A Gamba, P Ferrazzi and P Cerretelli. The heart rate response to exercise and circulating catecholamines in heart transplant recipients. *Pflügers Arch.* 2002, 443: 370-376.
59. Marconi C, M Marzorati, R Fiocchi, F Mamprin, P Ferrazzi, **G. Ferretti** and P Cerretelli. Age-related heart rate response to exercise in heart transplanted children : Functional significance. *Pflügers Arch.*, 2002, 443: 698-706.
60. Minetti AE, C Moia, GS Roi, D Susta and **G. Ferretti.** Energy cost of human locomotion at extreme uphill and downhill slopes. *J. Appl. Physiol.*, 2002, 93: 1039-1046.
61. Marconi C., **G. Ferretti**, S. Anchisi, M. Catalano, G. Scandale, A. Antico, G. Iob, F. Peinetti and P. Cerretelli. Energy cost of locomotion in patients with peripheral arterial disease (PAD) and claudication. *Clin. Sci.* 2003, 105: 105-111.
62. **Ferretti G.** Factors limiting oxygen transport on Mount Everest 25 years after. *Eur. J. Appl. Physiol.* 2003, 90: 344-350.
63. **Ferretti G** and M. Costa. Diversity in and adaptation to breath-hold diving in humans. *Comp. Biochem. Physiol. A*, 2003, 36: 205-213.

64. Azabji Kenfack M, F Lador, M Licker, C Moia, E Tam, C Capelli, D Morel and **G Ferretti**. Cardiac output by model flow method from intra-arterial and finger tip pulse pressure profiles. *Clin. Sci.*, 2004, 106: 365-369.
65. Tam E, M Azabji Kenfack, M Cautero, F Lador, G Antonutto, PE Di Prampero, **G Ferretti** and C Capelli. Correction of cardiac output obtained by Modelflow from finger pulse pressure profiles with a respiratory method in humans. *Clin. Sci.* 2004, 106: 371-376.
66. Belin de Chantemèle E, S Blanc, N Pellet, M Duvareille, **G Ferretti**, G Gauquelin-Koch, C Gharib and MA Custaud. Does resistance exercise prevent body fluid changes after a 90-day bed rest ? *Eur. J. Appl. Physiol.* 2004, 92: 555-564.
67. Belin de Chantemèle E, L Pascaud, MA Custaud, A Capri, F Louisy, **G Ferretti**, C Gharib and P Arbeille. Calf venous volume during stand-test after a 90-day bed-rest study with or without exercise countermeasure. *J. Physiol.* 2004, 561: 611-622.
68. Reeves ND, CN Maganaris, **G Ferretti** and MV Narici. Influence of 90-day simulated microgravity on human tendon mechanical properties and the effect of resistive countermeasures. *J. Appl. Physiol.* 2005, 98: 2278-2286.
69. **Ferretti G**, MJ Licker, S Anchisi, C Moia, D Susta and DR Morel. The effects of b1-adrenergic blockade on cardiovascular oxygen flow in normoxic and hypoxic humans at exercise. *Eur. J. Appl. Physiol.* 2005, 95: 250-259.
70. Lador F, M Azabji Kenfack, C Moia, M Cautero, DR Morel, C Capelli, and **G Ferretti** Simultaneous determination of the kinetics of cardiac output, systemic O₂ delivery and lung O₂ uptake at exercise onset in men. *Am J Physiol, Reg Int Comp Physiol*, 2006; 290: 1071-1079.
71. Capelli C, G Antonutto, M Azabji Kenfack, M Cautero, F Lador, C Moia, E Tam and **G Ferretti**. Factors determining the kinetics of VO₂max decay during bed-rest: implications for VO₂max limitation. *Eur J Appl Physiol* 2006, 98: 152-160.
72. Perini R, A Tironi, A Gheza, F Butti, C Moia and **G Ferretti**. Heart rate and blood pressure time courses during prolonged dry apnoeas in breath-hold divers. *Eur J Appl Physiol*, 2008, 104:1-7.
73. Lador F, E Tam, M Azabji Kenfack, M Cautero, C Moia, D Morel, C Capelli and **G Ferretti**. Phase I dynamics of cardiac output, systemic O₂ delivery and lung O₂ uptake at exercise onset in men in acute normobaric hypoxia. *Am J Physiol, Reg Int Comp Physiol*, 2008, 295: R624-R632.
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