

Prof Guido Ferretti

PUBLICATIONS

Original articles in peer-reviewed journals

In brackets, impact factor.

Overall H-index : 25

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.
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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. (4.24)
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. (4.24)
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. (4.24)
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.
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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.
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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.
(2.38)
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. (2.38)
9. di Prampero PE et **G. Ferretti**. Factors limiting maximal oxygen consumption in humans. *Respir. Physiol.* 1990, 80: 113-128. (2.38)³

10. Binzoni T, **G. Ferretti**, F Barbalat et P Cerretelli. Energetics of resting anaerobic frog gastrocnemius at different temperatures by ^{31}P -NMR. *Respir. Physiol.* 1990, 82: 137-148. (2.38)
11. **Ferretti G**. On maximal oxygen consumption in hypoxic humans. *Experientia* 1990, 46: 1188-1194. (7.05)¹
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. (2.36)
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. (4.24)
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. (0.69)²
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. (2.36)
16. Cerretelli P, C Marconi, M Meyer, **G. Ferretti** et B Grassi. Gas exchange kinetics in heart transplant recipients. *Chest* 1992, 101: 199S-205S. (6.52)
17. Ishii M, **G. Ferretti** et P Cerretelli. Effects of muscle temperature on the VO_2 kinetics at the onset of exercise in man. *Respir. Physiol.* 1992, 88: 343-353. (2.38)
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. (2.36)
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. (2.36)
20. **Ferretti G**, B Kayser, F Schena, DL Turner et H Hoppeler. Regulation of perfusive O_2 transport during exercise in humans: effects of changes in haemoglobin concentration. *J. Physiol. (Lond.)* 1992, 455: 679-688. (5.14)
21. Binzoni T, **G. Ferretti**, K Schenker et P Cerretelli. Phosphocreatine hydrolysis by ^{31}P -NMR at the onset of constant-load exercise in humans. *J. Appl. Physiol.* 1992, 73: 1644-1649. (4.24)
22. 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. (2.38)
23. **Ferretti G**. Cold and muscle performance. *Int. J. Sports Med.* 1992, 13: S185-S187. (2.38)
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. (2.38)

25. Turner DL, H Hoppeler, C Noti, HP Gurtner, H Gerber, F Schena, B Kayser et **G. Ferretti**. Limitations to VO_2max in humans after blood retransfusion. *Respir. Physiol.* 1993, 92: 329-341. (2.38)
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. (2.36)
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. (4.24)
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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. (2.38)
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. (2.38)
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. (4.24)
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. (4.24)
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37. Cerretelli P, B Grassi, L Xi, F Schena, C Marconi, M Meyer et **G. Ferretti**. The role of pulmonary CO_2 flow in the control of the "phase 1" ventilatory response to exercise in humans. *Eur. J. Appl. Physiol.*, 1995, 71: 287-294. (2.36)

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. (4.24)
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. (2.38)
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. (4.24)
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42. Meyer M, C Marconi, **G. Ferretti**, R Fiocchi, P Cerretelli et 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. *Int. Physiol. Behav. Sci.* 1996, 31: 289-305. (0.25)
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. (5.14)
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. (5.14)
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. (5.14)
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. (4.24)
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. (2.38)
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. (3.14)
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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. (3.14)
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. (2.23)
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. (2.38)
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. (4.24)
56. **Ferretti G**. Extreme human breath-hold diving. *Eur. J. Appl. Physiol.*, 2001, 84: 254-271. [review article] (2.36)
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 (3.35)
58. **Ferretti G**, C Marconi, G Achilli, E Caspani, R Fiocchi, F Mamprin, A Gamba, P Ferrazzi and P Cerretelli. Heart rate dependence on circulating catecholamines in heart transplant recipient humans. *Pflügers Arch.* 2002, 443: 370-376. (3.35)
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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. (4.24)
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. (4.61)
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63. **Ferretti G** and M. Costa. Diversity in and adaptation to breath-hold diving in humans. *Comp. Biochem. Physiol.*, 2003, 36: 205-213. (2.13)
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. (4.61)

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69. **Ferretti G**, MJ Licker, S Anchisi, C Moia, D Susta and DR Morel. The effects of β_1 -adrenergic blockade on cardiovascular oxygen flow in normoxic and hypoxic humans at exercise. *Eur. J. Appl. Physiol.* 2005, 95: 250-259. (2.36)
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 O_2 delivery and lung O_2 uptake at exercise onset in men. *Am J Physiol, Reg Int Comp Physiol*, 2006; 290: 1071-1079. (3.28)
71. Capelli C, G Antonutto, M Azabji Kenfack, M Cautero, F Lador, C Moia, E Tam and **G Ferretti**. Factors determining the kinetics of VO_{2max} decay during bed-rest: implications for VO_{2max} limitation. *Eur J Appl Physiol* 2006, 98: 152-160. (2.36)
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73. 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. (2.36)
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75. Capelli C, G Antonutto, M Cautero, E Tam and **G Ferretti**. Metabolic and cardiovascular responses during sub-maximal exercise in humans after 14 days of head-down tilt bed rest and inactivity. *Eur J Appl Physiol*, 2008, 104: 909-918. (2.36)
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77. **Ferretti G** and C Capelli. Maximal O₂ consumption : effects of gravity withdrawal and resumption. *Respir Physiol Neurobiol*, 2009, 169S:S50-S54.
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82. **Ferretti G**, A Bringard and R Perini. An analysis of performance in human locomotion. *Eur J Appl Physiol*, 2011, 111: 391-401. (2.36)
83. Bonjour J, A Bringard, G Antonutto, C Capelli, D Linnarsson, DR Pendergast and **G Ferretti**. Effects of gravity acceleration on human cardiovascular responses to exercise *Eur J Appl Physiol.*, 2011, 111: 2907-2917. (2.36)
84. Pagani M, P Pizzinelli, M Malacarne, **G Ferretti**, C Capelli, V Magagnin, A Porta, A Azzellino and D Lucini. Diminished autonomic resilience to upright exercise after prolonged bed rest inactivity: insight from conceptual network analysis. *Eur J Appl Physiol*, 2011, submitted. (2.36)
85. Adami A, A Bringard, C Moia, R Perini and **G Ferretti**. Ramp protocols for maximal exercise testing provide equal V'O₂max values as but higher peak power values than classical steady state protocols. *Eur. J. Appl. Physiol.*, 2011, submitted. (2.36)
86. Lador F, E Tam, M Azabji Kenfack, M Cautero, M Moia, DR Morel, C Capelli and **G Ferretti**. Cardiac output, O₂ delivery and V'O₂ during moderate intensity exercise in acute normobaric hypoxia. *Respir Physiol Neurobiol*, 2011, submitted.

¹ Journal's name changed from *Experientia* to *Cellular and Molecular Life Science*

² Journal's name changed from *Undersea Biomedical Research* to *Undersea and Hyperbaric Medicine*

³ Journal's name changed from *Respiration Physiology* to *Respiration Physiology and Neurobiology*

Books

1. **Ferretti G** and C Capelli (2008). *Dagli abissi allo spazio : Ambienti e limiti umani*. Edi Ermes, Milano, pp 326.

Book chapters

1. Cerretelli P and **G Ferretti** (1985). Dispensio energetico in alcune prestazioni sportive aerobiche ed anaerobiche. In : *Alimentazione e Sport*. M Melissano (ed.). Promotion, Bolzano, pp. 59-76.
2. Cerretelli P, PE di Prampero, JC Brückner, **G Ferretti**, C Capelli, H Howald and O Oelz (1987). Respiratory and metabolic characteristics of elite alpine climbers. In : *Hypoxia and Cold*. JR Sutton, CS Houston and G Coates (eds). Praeger, New York, pp 457-463.
3. **Ferretti G** (1988). Aspects fonctionnels de la récupérations des efforts brefs et intenses. In : *La Récupération de l'Effort Sportif*. M Rieu and D Barrault (eds). Revue EPS, Paris, pp 5-7.
4. Cerretelli P and **G Ferretti** (1988). Modificazioni della meccanica cardiaca nell'attività fisica : risposta all'esercizio acuto, aerobico ed anaerobico. In : *Il Punto su Cuore e Sport*. PF Fazzini and G Gambelli (eds). O.I.C. Medical Press, Firenze, pp 29-52.
5. **Ferretti G** (1991). Massima potenza muscolare assoluta nell'uomo. In : *La Fatica Muscolare e Neuronale : Fattori Biochimici, Metabolici e Neurofisiologici*. G Antonutto (ed). Pitagora Press, Milano, pp 93-100.
6. Cerretelli P, L Xi, F Schena, C Marconi, B Grassi, **G Ferretti** and M Meyer (1993). Ventilatory response at the onset of exercise: an update of the neurohumoral theory. In : *Neurobiology and Cell Physiology of Chemoreception*. PG Data, H Acker and S Lahiri (eds). Plenum Press, New York, pp 327-332.
7. Grassi B, **G. Ferretti**, M Costa, C Marconi and P Cerretelli (1993). Chemoreflexogenic ventilatory drive in humans adpoted to unusual environments. In : *Neurobiology and Cell Physiology of Chemoreception*. PG Data, H Acker and S Lahiri (eds). Plenum Press, New York, pp 353-358.
8. **Ferretti G** (1996). Hypoxia and anaemia produce equivalent effects on maximal oxygen consumption. In : *Pathophysiology of Exercise Tolerance*. J.M. Steinacker and S. Ward (eds). Plenum Press, New York, 129-134.
9. Marconi C, M Marzorati, R Fiocchi, F Mamprin, P Ferrazzi, **G Ferretti** and P Cerretelli (1996). Cardiovascular and metabolic responses to exercise in heart transplanted children. In : *Pathophysiology of Exercise Tolerance*. J.M. Steinacker and S. Ward (eds). Plenum Press, New York, 199-203.
10. **Ferretti G** (2005, 2010). Adattamento all'altitudine e alle profondità marine. In : *Fisiologia Medica* F. Conti (ed). Edi Ermes, Milano, ed. 1, vol 2, sect. VII pp 755-780; ed. 2, pp: 837-859.
11. Antonutto G, G Clément, **G Ferretti**, D Linnarsson, A Pavy-le-Traon and PE di Prampero (2007). Physiological targets of artificial gravity: the cardiovascular

- system. In: *Artificial Gravity*. G Clément and A Buckley (eds). Microcosm Press, Hawthorne, CA, and Springer, New York, pp 137-162.
12. **Ferretti G** and C Capelli (2010). Organizzazione generale del sistema respiratorio. In : *Fisiologia Medica* F. Conti (ed). Edi Ermes, Milano, ed. 2, vol 2, sect. IV, pp 263-278.
 13. **Ferretti G** and C Capelli (2010). Meccanica respiratoria. In : *Fisiologia Medica* F. Conti (ed). Edi Ermes, Milano, ed. 2, vol 2, sect. IV, pp 279-316.
 14. **Ferretti G** and C Capelli (2010). Scambi gassosi. In : *Fisiologia Medica* F. Conti (ed). Edi Ermes, Milano, ed. 2, vol 2, sect. IV, pp 317-360.
 15. **Ferretti G** and C Capelli (2010). Rapporto ventilazione-perfusione. In : *Fisiologia Medica* F. Conti (ed). Edi Ermes, Milano, ed. 2, vol 2, sect. IV, pp 361-380.

Letters, Editorials, Extended abstracts in peer-reviewed Journals

1. **Ferretti G**. Effects of muscle temperature on oxygen uptake kinetics during exercise *J. Appl. Physiol.* 1998, 85: 1593-1594..
2. Reeves NJ, CN Maganaris, **G Ferretti** and MV Narici. Influence of simulated microgravity on human skeletal muscle architecture and function. *J Gravit Physiol.* 2002, 9: P153-P154.
3. di Prampero PE, C Capelli and **G. Ferretti**. Comment on point: counterpoint "in health and in a normoxic environment, VO_2 max is/is not limited primarily by cardiac output and locomotor muscle blood flow". The major factor limiting VO_2 max in health and normoxia is oxygen transport to active muscles. *J Appl Physiol.* 2006, 100: 1086.
4. **Ferretti G**. Of intermittent hypoxia and doping. *Eur J Appl Physiol.* 2010, 108: 413-414.
5. Esposito F and **G Ferretti**. Respiratory muscle training and maximum aerobic power in hypoxia. *Eur J Appl Physiol.* 2010, 110: 219-220.
6. Esposito F, E Limonta, G Alberti, A Veicsteinas and **G Ferretti**. Assessment of respiratory muscle training effects. *Respir. Physiol. Neurobiol.* 2010, 173: 115-117.
7. Capelli C, and **G Ferretti**. Physiological determinants of best performance in marathon running. In: Commentaries on viewpoint: The two-hour marathon: who and when? *J Appl Physiol.* 2011, 110: 283-284.

Articles in National Journals

1. Donato F, A Festa, D Assanelli, D Cocchi, G Carosi, **G Ferretti**, A Matteelli, C Orizio, C Paganelli, E Sacchetti, S Sigala, A Vita, C Zani, R Benedetti and L Alessio. Un'esperienza didattica di promozione della salute per le matricole dei

2. **Ferretti G.** Il medico dello sport: uno specialista in cerca di definizione. *Sport e Medicina* 2011, 28 (4): 16-20.