

Reference List (2005-01-10)

1. **Heerlein K, Schulze A, Hotz L, Bärtsch P and Mairböurl H.** Hypoxia decreases cellular ATP-demand and inhibits mitochondrial respiration of A549 cells. *Amer J Respir Cell Molec Biol* 32: 44-51, 2005.
2. **Van Osta A, Moraine JJ, Melot C, Mairböurl H, Maggiorini M and Naeije R.** Effects of high altitude exposure on cerebral hemodynamics in normal subjects. *Stroke* in press: 2005.
3. **Karle C, Gehrig T, Wodopia R, Höschele S, Kreye VAW, Katus HA, Bärtsch P and Mairböurl H.** Hypoxia-induced inhibition of whole cell membrane currents and ion transport of A549 cells. *Amer J Physiol Lung Cell M Physiol* 286: L1154-L1160, 2004.
4. **Bärtsch P, Mairböurl H, Swenson ER and Maggiorini M.** High altitude pulmonary oedema. *Swiss Medical Weekly* 133: 377-384, 2003.
5. **Dehnert Ch, Schneider M, Mairböurl H and Bärtsch P.** Wie sie Bergsteiger vor den Folgen des "Höhenrauschs" bewahren. *MMW-Fortschr Med* 8: 95-97, 2003.
6. **Höschele S and Mairböurl H.** Alveolar flooding at high altitude: failure of reabsorption? *News Physiol Sci* 18: 55-59, 2003.
7. **Mairböurl H, Weymann J, Möhrlein A, Swenson ER, Maggiorini M, Gibbs JSR and Bärtsch P.** Nasal epithelium potential difference at high altitude (4559 m): evidence for secretion. *Amer J Respir Crit Care Med* 167: 862-867, 2003.
8. **Mairböurl H, Schwöbel F, Höschele S, Maggiorini M, Gibbs JSR, Swenson E and Bärtsch P.** Altered expression of ion transporters in bronchial epithelium and in leukocytes of mountaineers suffering from HAPE at 4559 m. *JAP* 95: 1843-1850, 2003.
9. **Bärtsch P and Mairböurl H.** Salmeterol for the prevention of high altitude pulmonary edema. *N Engl J Med* 347: 1283, 2002.
10. **Bärtsch P, Maggiorini M, Mairböurl H, Vock P and Swenson ER.** Pulmonary extravascular fluid accumulation in climbers. *Lancet* 360: 571-572, 2002.
11. **Mairböurl H, Höschele S, Schwöbel F, Weymann J, Swenson ER, Maggiorini M, Gibbs JSR and Bärtsch P.** Expression and activity of ion transporters of mountaineers susceptible to high altitude pulmonary edema. *FASEB J* 16: A65-112.8, 2002.
12. **Mairböurl H and Maassen N.** Ionenhomöostase, Muskelkontraktilität und muskuläre Ermüdung. *Deutsche Zeitschrift für Sportmedizin* 53: 238-243, 2002.
13. **Mairböurl H, Mayer K, Kim KJ, Borok Z, Bärtsch P and Crandall ED.** Hypoxia decreases active Na transport across primary rat alveolar epithelial cell monolayers. *Amer J Physiol Lung Cell Molec Physiol* 282: L659-L665, 2002.
14. **Swenson ER, Maggiorini M, Mongovin S, Gibbs JSR, Greve I, Mairböurl H and Bärtsch P.** Pathogenesis of high-altitude pulmonary edema: Inflammation is not an etiologic factor. *JAMA* 287: 2228-2235, 2002.
15. **Papen M, Wodopia R, Bärtsch P and Mairböurl H.** Hypoxia-effects on Ca_i-signaling and ion transport activity of lung alveolar epithelial cells. *Cell Physiol Biochem* 11: 187-196, 2001.
16. **Heberlein W, Wodopia R, Bärtsch P and Mairböurl H.** Possible role of ROS as mediators of hypoxia-induced ion transport inhibition of alveolar epithelial cells. *Amer J Physiol* 278: L640-L648, 2000.
17. **Mairböurl H.** Höhenakklimatisation. *Deutsche Zeitschrift für Sportmedizin* 51: 390-395, 2000.
18. **Mairböurl H, Schulz S and Hoffman JF.** Cation transport and cell volume changes in maturing rat reticulocytes. *Amer J Physiol* 279: C1621-C1630, 2000.
19. **Wodopia R, Ko HS, Billian J, Wiesner R, Bärtsch P and Mairböurl H.** Hypoxia decreases proteins involved in transepithelial electrolyte transport of A549 cells and rat lung. *Amer J Physiol* 279: L1110-L1119, 2000.
20. **Friedmann B, Jost J, Rating T, Weller E, Werle E, Eckardt K-U, Bärtsch P and Mairböurl H.** Effects of iron supplementation on total body hemoglobin during endurance training at moderate altitude. *Int J Sports Med* 20: 78-85, 1999.
21. **Bärtsch P, Mairböurl H and Friedmann B.** Pseudoanemia in sports. *Therapeutische Umschau* 55: 251-255, 1998.
22. **Maassen N, Foerster M and Mairböurl H.** Red blood cells do not contribute to the removal of K⁺ released from exhaustively working forearm muscle. *J Appl Physiol* 85: 326-332, 1998.

23. **Mairböurl H, Wodopia R and Bärtsch P.** Hypoxie hemmt den Ionentransport im Alveolarepithel. *Deutsche Zeitschrift für Sportmedizin* 49: 46-49, 1998.
24. **Weller E, Bachert P, Meinck HM, Friedmann B, Bärtsch P and Mairböurl H.** Lack of effect of oral Mg-supplementation on Mg in serum, blood cells and calf muscle. *Med Sci Sports Exercise* 30: 1584-1591, 1998.
25. **Mairböurl H, Wodopia R, Eckes S, Schulz S and Bärtsch P.** Impairment of cation transport in A549 cells and rat alveolar epithelial cells by hypoxia. *Amer J Physiol* 273: L797-L806, 1997.
26. **Mairböurl H and Herth Ch.** Na/K/2Cl cotransport, Na/H exchange and cell volume in ferret red cells. *Amer J Physiol* 271: C1603-C1611, 1996.
27. **Mairböurl H.** Red blood cell function in hypoxia at altitude and exercise. *Int J Sports Med* 15/2: 51-63, 1994.
28. **Mairböurl H, Oelz O and Bärtsch P.** Interactions between Hb, Mg, DPG, ATP, and Cl determine the change in Hb-O₂-affinity at high altitude. *J Appl Physiol* 74/1: 40-48, 1993.
29. **Mairböurl H and Hoffman JF.** Internal magnesium, 2,3-diphosphoglycerate, and the regulation of the steady-state volume of human red blood cells by the Na/K/2Cl cotransport system. *J Gen Physiol* 99: 721-746, 1992.
30. **Beck JS, Breton S, Mairböurl H, Laprade R and Giebisch G.** Relationship between sodium transport and intracellular ATP in isolated perfused rabbit proximal convoluted tubule. *Amer J Physiol* 261: F634-F639, 1991.
31. **Mairböurl H and Hoffman JF.** Na/K-pump activity and cell volume changes during maturation of rat reticulocytes. *The Rockefeller University Press* : 453-456, 1991.
32. **Mairböurl H, Schobersberger W, Oelz O, Bärtsch P, Eckardt KU and Bauer C.** Unchanged in-vivo P₅₀ at high altitude despite decreased red cell age and elevated 2,3-DPG. *J Appl Physiol* 68/3: 1186-1194, 1990.
33. **Humpeler E, Vogel S, Schobersberger W and Mairböurl H.** Red cell oxygen transport in relation to sex and age. *Mechan Aging Develop* 47: 229-239, 1989.
34. **Mairböurl H, Schobersberger W, Hasibeder W, Knapp E, Hopferwieser T, Humpeler E, Loeffler HD, Wetzels E, Wybitul K, Baumgartl P and Dittrich P.** Exercise performance of hemodialysis patients during short-term and prolonged exposure to altitude. *Clin Nephrol* 32/1: 31-39, 1989.
35. **Mairböurl H, Schobersberger W, Hasibeder W, Knapp E, Hopferwieser T and Dittrich P.** Increase in Hb-O₂-affinity at moderate altitude (2000 m) in patients on maintenance hemodialysis. *Clin Nephrol* 31/4: 198-203, 1989.
36. **Baumgartl P, Mairböurl H, Kaiser N, Schobersberger W, Helweg G and Joast S.** Ergospirometrie - und Blutlaktatdaten zur Beurteilung der Konditionierung von Präsenzdienern in Abhängigkeit ihrer Tätigkeit im Rahmen des Wehrdienstes beim Österreichischen Bundesheer. *Wiener Med Wochenschr* 138/17: 433-437, 1988.
37. **Mairböurl H.** Red blood cell function at high altitude. *Ann Sports Med* 4/4: 189-195, 1988.
38. **Hasibeder W, Schobersberger W and Mairböurl H.** Red cell oxygen transport before and after short-term maximal swimming in dependence on training status. *Int J Sports Med* 8: 105-108, 1987.
39. **Schobersberger W, Hasibeder W, Mairböurl H, Hopferwieser T, Humpeler E, Knapp E, Löffler HD, Wetzels E, Wybitul K and Dittrich P.** Untersuchungen über die Kurzzeitanpassung und Leistungsfähigkeit chronisch hämodialysierter Patienten in alpinen Höhenlagen (2000m und 3000m). *Nieren-, Hochdruckkrankheiten* 16: 33-38, 1987.
40. **Mairböurl H, Schobersberger W, Humpeler E, Hasibeder W, Fischer W and Raas E.** Beneficial effects of exercising at moderate altitude on red cell oxygen transport and on exercise performance. *Pflügers Arch Eur J Physiol* 406: 594-599, 1986.
41. **Mairböurl H, Schobersberger W, Hasibeder W, Schwabberger G, Gaesser G and Tanaka KR.** Regulation of red cell 2,3-DPG and Hb-O₂-affinity during acute exercise. *Eur J Appl Physiol* 55: 174-180, 1986.
42. **Mairböurl H, Humpeler E, Schwabberger G and Pessenhofer H.** Training dependent changes of red cell density and erythrocytic oxygen transport. *J Appl Physiol* 55/5: 1403-1407, 1983.
43. **Ortner A, Zech H, Humpeler E and Mairböurl H.** May high oxygen affinity of maternal hemoglobin cause fetal growth retardation? *Arch Gynecol* 234: 79-85, 1983.
44. **Humpeler E, Mairböurl H and Hönigsmann H.** Effects of whole body UV-irradiation on oxygen delivery from the erythrocyte. *Eur J Appl Physiol* 49: 209-214, 1982.
45. **Löwit K, Humpeler E, Mairböurl H and Vogel S.** Somatische Parameter bei Transsexualität: Verhalten von Östrogen-Feedback und Sauerstoffaffinität bei einer transsexuellen Frau. *Mitteil Ges prakt Sexualmed* 1: 32-35, 1981.

46. **Mairbäurl H and Humpeler E.** The influence of adrenaline on the metabolism of erythrocytes in vitro. *Biochem Soc Transact* 9: 99-100, 1981.
47. **Ortner A, Bichler A, Humpeler E and Mairbäurl H.** Einfluss eines Kurzeit Aufenthaltes in mittlerer Höhe auf Kardiogramm, HPL und Sauerstoffaffinität von schwangeren Frauen. *Arch Gynecol* 232: 441, 1981.
48. **Humpeler E, Mairbäurl H and Hönigsmann H** Mögliche Beeinflussung der Sauerstofftransporteigenschaften des Hämoglobins durch UVB -Bestrahlung. *Zschr Bäder- und Klimaheilkunde* 27: 163-167, 1980.
49. **Mairbäurl H and Humpeler E.** Diminution of the temperature effect on the oxygen affinity of hemoglobin after prolonged hypothermia. *Pflügers Arch Eur J Physiol* 383: 209-213, 1980.
50. **Pfaller W, Rován E and Mairbäurl H** A comparison of the ultrastructure of spray-frozen and freeze - etched or freeze dried bull or boar spermatozoa with that after chemical fixation. *J Reprod Fert* 48: 285-290, 1976.