

REFERENCES

- Achten J, Gleeson M, Jeukendrup AE (2002) Determination of the exercise intensity that elicits maximal fat oxidation. Med Sci Sports Exerc 34: 92-97
- Achten J and Jeukendrup AE (2003) Maximal fat oxidation during exercise in trained men. Int J Sports Med 24: 603-608
- Albers E, Müller BW (1992) Complexation of steroid hormones with cyclodextrin derivatives: Substituent effects of the guest molecule on solubility and stability in aqueous solution. J Pharmaceut Sci 81: 760-761
- Amelink GJ, Bär PR (1986) Exercise-induced muscle protein leakage in the rat: Effect of hormonal manipulation. J Neurol Sci 76: 61-68
- Armstrong RB, Warren GL, Warren JA (1991) Mechanisms of exercise-induced muscle fibre injury. Sports med 12: 184-207
- Arnett MG, Hyslop R, Dennehy CA, Schneider CM (2000) Age-realted variations of serum CK and CK MB response in females. Can J Appl Physiol 25:419-429
- Bailey SP, Zacher CM, Mittleman KD (2000) Effect of menstrual cycle phase on carbohydrate supplementation during prolonged exercise to fatigue. J Appl Physiol 88: 690-697
- Baker FC, Driver HS, Rogers GG, Paiker J, Mitchell D (1999) High nocturnal body temperatures and disturbed sleep in women with primary dysmenorrhea. Am J Physiol 277: E1013-E1021
- Bär PR, Amelink GJ, Oldenburg B, Blankenstein (1988) Prevention of exercise-induced muscle membrane damage by oestradiol. Life Sci 42:2677-2681
- Bär PR, Amelink GJ (1997) Protection against damage by oestrogen: hormonal or antioxidant action? Biochem Soc Trans 25: 50-54
- Bayliss DA, Millhorn DE (1992) Central neural mechanisms of progesterone action : application to the respiratory system. J Appl Physiol 73: 393-404

- Beidleman BA, Rock PB, Muza SR, Fulco CS, Forte VA Jr, Cymerman A (1999)
 Exercise V_E and physical performance at altitude are not affected by menstrual cycle phase. J Appl Physiol 86: 1519-1526
- Bemben DA, Salm PC, Salm AJ (1995) Ventilatory and blood lactate responses to maximal treadmill exercise during the menstrual cycle. J Sports Med Phys Fitness 35: 257-262
- Benoit V, Valette A, Mercier L, Meignen JM, Boyer J (1982) Potentiation of epinephrine-induced lipolysis in fat cells from estrogen-treated rats. Biochem Biophys Res Comm 109: 1186-1191
- Bergman BC, Butterfield EE, Wolfel EE, Casazza GA, Lopaschuk GD, Brooks GA (1999) Evaluation of exercise and training on muscle lipid metabolism. Am J Physiol 276: E106-E117
- Birch K (2000) Circamensal rhythms in physical performance. Biol Rhythm Res 31: 1-14
- Bishop D (1997) Reliability of a 1-h endurance performance test in trained female cyclists. Med Sci Sports Exerc 29: 554-559
- Bonekat HW, Dombovy ML, Staats BA (1987) Progesterone-induced changes in exercise performance and ventilatory response. Med Sci Sports Exerc 19: 118-123
- Bonen A, Haynes FJ, Graham TE (1991) Substrate and hormonal responses to exercise in women using oral contraceptives. J Appl Physiol 70: 1917-1927
- Bonen A, Haynes FJ, Watson-Wright W, Sopper MM, Pierce GN, Low MP, Graham TE (1983) Effects of menstrual cycle on metabolic responses to exercise. J Appl Physiol 55: 1506-1513
- Bonen A, Luiken JJFP, Liu S, Dyck DJ, Kiens B, Kristiansen S, Turcotte LP, Van Der Vusse GJ, Glatz JFC (1998) Palmitate transport and fatty acid transporters in red and white mucscles. Am J Physiol 275: E471-E478

- Bosch AN, Dennis SC, Noakes TD (1993) Influence of carbohydrate loading on fuel substrate turnover and oxidation during prolonged exercise. J Appl Physiol 74: 1921-1927
- Brewster ME, Howes J, Griffith W, Garty N, Bodor N, Anderson WR, Pop E (1996) Intravenous and buccal 2-hydroxypropyl-β-cyclodextrin formulations of E2-CDs-Phase I clinical trials. Proc Int Symp Cyclodextrins 8th, 507-519 (Abstract)
- Brooks GA and Mercier J (1994) Balance of carbohydrate and lipid utilization during exercise: the "crossover" concept. J Appl Physiol 76: 2253-2261
- Buffenstein R, Poppott SD, McDevitt RM, Prentice AM (1995) Food intake and the menstrual cycle: A retrospective analysis, with implications for appetite research. Physiol and Behav 58: 1067-1077
- Burguera B, Proctor D, Dietz N, Guo Z, Joyner M, Jensen MD (2000) Leg free fatty acid kinetics during exercise in men and women. Am J Physiol 278: E113-E117
- Campbell SE, Angus DJ, Febbraio MA (2001) Glucose kinetics and exercise performance during phases of the menstrual cycle: effect of glucose ingestion. Am J Physiol 281: E817-E825
- Campbell SE, Febbraio MA (2001) Effect of ovarian hormones on mitochondrial enzyme activity in fat oxidation pathway of skeletal muscle. Am J Physiol 281: E803-E808
- Campbell SE, Febbraio MA (2002) Effect of the ovarian hormones on GLUT4 expression and contraction-stimulated glucose uptake. Am J Physiol 282: E1139-E1146

Carpenter TO, Gerloczy A, Pitha J (1995) Safety of parenteral hydroxypropyl β cyclodextrin. J Pharmaceut Sci 84: 222-225

- Carter SL, McKenzie S, Mourtzakis M, Mahoney DJ, Tarnopolsky MA (2001a) Shortterm 17β-estradiol decreases glucose R_a but not whole body metabolism during endurance exercise. J Appl Physiol 90: 139-146
- Carter SL, Rennie C, Tarnopolsky MA (2001b) Substrate utilisation during endurance exercise in men and women after endurance training. Am J Physiol 280: E898-E907
- Casazza GA, Suh S-H, Miller BF, Navazio FM, Brooks GA (2002) Effects of oral contraceptives on peak exercise capacity. J Appl Physiol 93: 1698-1702
- Chabowski A, Coort SLM, Calles-Escandon J, Tandon NN, Glatz JFC, Luiken JJFP, Bonen A (2004) Insulin stimulates fatty acid transport by regulating expression of FAT/CD36 but not FABPpm. Am J Physiol 287: E781-E789
- Chang R-T, Lambert GP, Moseley PL, Chapler FK, Gisolfi CV (1998) Effect of oestrogen supplementation on exercise thermoregulation in premenopausal women. J Appl Physiol 85: 2082-2088
- CTD, Inc cyclodextrin resource web site. General cyclodextrin info. http://www.cyclodex.com/general-cyclodextrins.htm
- Curran-Everett D (2000) Multiple comparisons: philosophies and illustrations. Am J Physiol 279: R1-R8
- Dean TM, Perreault L, Mazzeo RS, Horton TJ (2003) No effect of menstrual cycle phase on lactate threshold. J Appl Physiol 95: 2537-2543
- De Crée C, Van Kranenburg G, Geurten P, Fujimori Y, Keize HA (1997) 4-Hydroxycatecholestrogen metabolism responses to exercise and training: possible implications for menstrual cycle irregularities and breast cancer. Fertil Steril 67:505-516
- D'Eon TM, Sharoff C, Chipkin SR, Grow D, Ruby BC, Braun B (2002) Regulation of exercise carbohydrate metabolism by estrogen and progesterone in women. Am J Physiol 283: E1046-E1055

- De Souza MJ, Maguire MS, Rubin K, Maresh CM (1990) Effects of menstrual phase and amenorrhea on exercise responses in runners. Med Sci Sports Exerc 22: 575-580
- Dombovy ML, Bonekat HW, Williams TJ, Staats BA (1987) Exercise performance and ventilatory response in the menstrual cycle. Med Sci Sport Exerc 19: 111-117
- Duffield R, Dawson B, Bishop D, Fitzsimons M, Lawrence S (2003) Effect of wearing an ice cooling jacket on repeat sprint performance in warm/humid conditions. Br J Sports Med 37: 164-169
- Duncan GE, Howley ET, Johnson BN (1997) Applicability of VO₂max criteria: discontinuous versus continuous protocols. Med Sci Sports Exerc 29: 273- 278
- Elia M, Kahn K, Calder G, Kurpad A (1993) Glycerol exchange across the human forearm assessed by a combination of tracer and arteriovenous exchange techniques. Clin Sci 84: 99-104
- Elkind Hirsch KE, Sherman LD, Malinak R (1993) Hormone replacement therapy alters insulin sensitivity in young women with premature ovarian failure. J Clin Endocrinol Metab 76: 472-475
- Ellis GS, Lanza-Jacoby S, Gow A, Kendrick ZV (1994) Effects of estradial on lipoprotein lipase activity and lipid availability in exercised male rats. J. Appl. Physiol 77: 209-215
- Ezenwaka EC, Akanji AO, Adejuwon CA, Abbiyesuku FM, Akinlade KS (1993) Insulin responses following glucose administration in menstruating women. Int J Gynaecol Obstet 42: 155-159
- Faria ACS, Bekenstein LW, Booth Jr RA, Vaccaro VA, Asplin CM, Veldhuis JD,Thorner MO, Evans WS (1992) Pulsatile growth hormone release in normal women during the menstrual cycle. Clin Endocrin 36: 591-596
- Ferrannini E (1988) The theoretical bases of indirect calorimetry: A review. Metabolism 37: 287-301

- Frayn KN (1983) Calculation of substrate oxidation rates in vivo from gaseous exchange J Appl Physiol 55: 628-634
- Friedlander AL, Casazza GA, Horning MA, Buddinger TF, Brooks GA (1998) Effects of exercise intensity and training on lipid metabolism in young women. J Appl Physiol 275: E853-E863
- Friedlander AL, Casazza GA, Horning MA, Huie MJ, Piacentini MF, Trimmer JK, Brooks GA (1998) Training-induced alterations of carbohydrate metabolism in women: women respond differently from men. J Appl Physiol 85: 1175-1186
- Friedlander AL, Casazza GA, Horning MA, Usaj A, Brooks GA (1999) Endurance training increases fatty acid turnover but not fat oxidation, in young men. J Appl Physiol 86: 2097-2105
- Galliven EA, Michelson ASD, Bina S, Gold PW, Deuster PA (1997) Hormonal and metabolic reponses to exercise across time of day and menstrual cycle phase. J Appl Physiol 83: 1822-1831
- Godsland IF (1996) The influence of female sex steroids on glucose metabolism and insulin action. J Intern Med 240: 1-60
- Goodman C, Henry G, Dawson B, (1997) Biochemical and ultrastructural indices of muscle damage after a twenty-one kilometre run. Aust J Sci Med Sport 29: 95-98
- Gu FG, Cui FD, Gao YL (2005) Preparation of prostaglandin E1-hydroxypropyl-betacyclodextrin complex and its nasal delivery in rats. Int J Pharm 290: 101-108
- Guo Z, Burguera B, Jensen MD (2000) Kinetics of intramuscular triglyceride fatty acids in exercising humans. J Appl Physiol 89: 2057-2064
- Hackney AC (1990) Effects of the menstrual cycle on resting muscle glycogen content. Horm Metab Res 22: 647
- Hackney AC (1999) Influence of oestrogen on muscle glycogen utilization during exercise. Acta Physiol Scand 167: 273-274

- Hackney AC, Curley CS, Nicklas BJ (1991) Physiological responses to submaximal exercise at the mid-follicular, ovulatory and mid-luteal phases of the menstrual cycle. Scand J Med Sci Sports 1: 94-98
- Haffner SM, Valdez RA (1995) Endogenous sex hormones: impact on lipids, lipoproteins, and insulin. Am J Med 98: 40S-47S
- Hansen FM, Fahmy N, Nielsen JH (1980) The influence of sexual hormones on lipogenesis and lipolysis in rat fat cells. Acta Endocrin 95: 566-570
- Hansen PA, McCarthy TJ, Pasia EN, Spina RJ, Gulve EA (1996) Effects of ovariectomy and exercise training on muscle GLUT-4 content and glucose metabolism in rats. J Appl Physiol 80: 1605-1611
- Hatta H, Atomi Y, Shinohara S, Yamamoto Y, Yamada S (1988) The effects of ovarian hormones on glucose and fatty acid oxidation during exercise in female ovariectomized rats. Horm Metab Res 20: 609-611
- Heiling VJ, Jensen MD (1992) Free fatty acid metabolism in the follicular and luteal phases of the menstrual cycle. J Clin Endocrinol Metab 74: 806-810
- Heiling VJ, Miles JM, Jensen MD (1991) How valid are isotopic measurements of fatty acid oxidation? Am J Physiol 261: E572-E577
- Hellerstein MK, Christiansen M, Kaempfer S, Kletke C, Wu K, Reid JS, Mulligan K,Hellerstein NS, Shackleton CHL (1991) Measurement of de novo hepaticlipogenesis in humans using stable isotopes. J Clin Invest 87: 1841-1852
- Hellström L, Blaak E, Hagström-Toft E (1996) Gender differences in adrenergic regulation of lipid mobilization during exercise. Int J Sports Med 17: 439-447
- Hessemer V, Brück K (1985) Influence of menstrual cycle on thermoregulatory, metabolic, and heart rate responses to exercise at night. J Appl Phsyiol 59: 1911-1917

- Hickey MS, Costill DL, McConell GK, Widrick JJ, Tanaka H (1992) Day to day variation in time trial cycling performance. Int J Sports Med 13: 467-670
- Hornum M, Cooper DM, Brasel JA, Bueno A, Sietsema KE (1997) Exercise-induced changes in circulating growth factors with cyclic variation in plasma estradiol in women. J Appl Physiol 82: 1946-1951
- Horowitz JF, Mora-Rodriguez R, Byerley LO, Coyle EF (1997) Lipoltic suppression following carbohydrate ingestion limits fat oxidation during exercise. Am J Physiol 273: E768-E775
- Horton TJ, Pagliassotti MJ, Hobbs K, Hill JO (1998) Fuel metabolism in men and women during and after long-duration exercise. J Appl Physiol 85: 1823-1832
- Horton TJ, Miller EK, Glueck D, Tench K (2002) No effect of menstrual cycle phase on glucose kinetics and fuel oxidation during moderate-intensity exercise. Am J Physiol 282: E752-E762
- Horton TJ, Miller EK, Bourret K (2006) No effect of menstrual cycle phase on glycerol or palmitate kinetics during 90 min of moderate exercise. J Appl Physiol 100: 917-925
- Horvath SM, Drinkwater BL (1982) Thermoregulation and the menstrual cycle. Aviat Space Environ Med 53: 790-794
- Jacobs KA, Casazza GA, Suh S-H, Horning MA, Brooks GA. (2005) Fatty acid reesterification but not oxidation is increased by oral contraceptive use in women. J Appl Physiol 98: 1720-1731
- Janse de Jonge XA (2003) Effects of the menstrual cycle on exercise performance. Sports Med 33: 833-851.
- Janssen GME, Kuipers H, Willems GM, Does RJMM, Janssen MPE, Geurten P (1989) Plasma activity of muscle enzymes: quantification of skeletal muscle damage and relationship with metabolic variables. Int J Sports Med 10: S160-S168



- Janssen Parmatceutica (1998) Information sheet on cyclodextrins: reports of clinical trials with hydroxypropyl-β-cyclodextrin conducted in animals and humans.
- Jensen MD, Heiling V, Miles JM (1990) Measurement of non-steady-state free fatty acid turnover. Am J Physiol 258: E103-E108
- Jensen MD, Heiling VJ (1991) Heated hand vein blood is satisfactory for measurements during free fatty acid kinetic studies. Metabolism 40: 406-409
- Jensen MD, Martin ML, Cryer PE, Roust LR (1994) Effects of estrogen on free fatty acid metabolism in humans. Am J Physiol 266: E914-E920
- Jensen MD, Rogers PJ, Ellman MG, Miles JM (1988) Choice of infusion-sampling mode for tracer studies of free fatty acid metabolism. Am J Physiol 254: E562-E565
- Jéquier E, Acheson K, Schutz Y (1987) Assessment of energy expenditure and fuel utilization in man. Ann Rev Nutr 7: 187-208
- Jeukendrup AE, Saris WHM, Wagenmakers AJM (1998) Fat metabolism during exercise: a review. Part I: Fatty acid mobilization and muscle metabolism. Int J Sports Med 19: 231-244
- Jurkowski JEH, Jones NL, Toews CJ, Sutton JR (1981) Effects of menstrual cycle on blood lactate, O₂ delivery, and performance during exercise. J Appl Physiol 51: 1439-1499
- Kahlert S, Grohe C, Karas RH, Lobbert K, Neyses L, Vetter H (1997) Effects of estrogen on skeletal myoblast growth. Biochem Biophys Res Commun 232: 373-378
- Kalkhoff RK (1982) Metabolic effects of progesterone. Am J Obstet Gynecol 142: 735-738
- Kanaley JA, Boileau RA, Bahr JA, Misner JE, Nelson RA (1992) Substrate oxidation and GH responses to exercise are independent of menstrual phase and status. Med Sci Sports Exerc 24: 873-880

- Keizer HA, Rogol AD (1990) Physical exercise and menstrual cycle alterations. What are the mechanisms? Sports Med 10: 218-235
- Kenagy R, Weinstein I, Heimberg M (1981) The effects of 17 beta-estradiol and progesterone on the metabolism of free fatty acid by perfused livers from normal female and ovarectomized rats. Endocrinology 108: 1613-1621
- Kendall B, Eston R (2002) Exercise-induced muscle damage and the potenetial protective role of estrogen. Sports Med 32: 103-123
- Kendrick ZV, Steffen CA, Rumsey WL, Goldberg DI (1987) Effect of estradiol on tissue glycogen metabolism in exercised oophorectomized rats. J Appl Physiol 63: 492-496
- Kiens B, Roepstorff C, Glatz JFC, Bonen A, Schjerling P, Knudsen J, Nielsen J N(2004) Lipid-binding proteins and lipoprotein lipase activity in human skeletal muscle: influence of physical activity and gender. J Appl Physiol 97: 1209-1218
- Kiens B (2006) Skeletal muscle lipid metabolism in exercise and insulin resistance. Physiol Rev 86: 205-243
- Knechtle B, Müller G, Willmann F, Kotteck, Eser P, Knecht H (2004) Fat oxidation in men and women endurance athletes in running and cycling. Int J Sports Med 25: 38-44
- Koot RW, Amelink GJ, Blankstein MA, Bär PR (1991) Tamoxifen and oestrogen both protect the rat muscle against physiological damage. J Steroid Biochem Mol Biol 40: 689-695

Kuipers H (1994) Exercise-induced muscle damage. Int J Sports Med 15:132-135

Lacroix M, Mosora F, Pontus M, Lefebvre P, Luyckx A, Lopez-Habib G (1973) Glucose naturally labelled with carbon-13: Use for metabolic studies in man. Science 181: 445-446



- Lamont LS, Lemon PWR, Bruot BC (1987) Menstrual cycle and exercise effects on protein catabolism. Med Sci Sports Exerc 19: 106-110
- Lamont LS, McCullough AJ, Kalhan SC (2001) Gender differences in leucine, but not lysine kinetics. J Appl Physiol 91: 357-362
- Lamont LS, McCullough AJ, Kalhan SC (2003) Gender differences in the regulation of amino acid metabolism. J Appl Physiol 95: 1259-1265
- Landau BR, Wahren J, Previs SF, Ekberg K, Chandranouli V, Brunen Grabber H (1996) Glycerol production and utilization in humans: sites and quantification. Am J Physiol 271: E1110-E1117
- Lariviere F, Moussalli R, Garrel DR (1994) Increased leucine flux and leucine oxidation during the luteal phase of the menstrual cycle in women. Am J Physiol 267: E422-E428
- Latour MG, Shinoda M, Lavoie J-M (2001) Metabolic effects of physical training in ovariectomized and hyperestrogenic rats. J Appl Physiol 90: 235-241
- Lavoie J-M, Dionne N, Helie R, Brisson GR (1987) Menstrual cycle phase dissociation of blood glucose homeostasis during exercise. J Appl Physiol 62: 1084- 1089
- Lebrun CM (1993) Effect of the different phases of the menstrual cycle and oral contraceptives on athletic performance. Sports Med 16: 400-430
- Lebrun CM (1994) The effect of the phase of the menstrual cycle and the birth control pill on athletic performance. Clinics in Sports Med 13: 419-441
- Lebrun CM, McKenzie DC, Prior JC, Taunton JE (1995) Effects of menstrual cycle phase on athletic performance. Med Sci Sports Exerc 27: 437-444
- Leibel RL, Hirsch J (1985) A radioisotopic technique for analysis of free fatty acid reesterification in human adipose tissue. Am J Physiol 248: E140-E147

- Martin WH III, Dalsky GP, Hurley BF, Matthews DE, Bier DM, Hagberg JM, Rogers MA, King DS, Holloszy JO (1993) Effect of endurance training on plasma free fatty acid turnover and oxidation during exercise. Am J Physiol 265: E708-E714
- Massicotte D, Péronnet F, Brisson GR, Hillaire-Marcel C (1992) Oxidation of exogenous medium-chain free fatty acids during prolonged exercise: comparison with glucose. J Appl Physiol 73: 1334-1339
- Matsuo T, Saitoh S, Suzuki M (1999) Effects of the menstrual cycle on excess postexercise oxygen consumption in healthy young women. Metabolism 48: 275-277
- Matute ML, Kalkhoff RK (1973) Sex steroid influence on hepatic gluconeogenesis and glycogen formation. Endocrin 92: 762-768
- McCracken M, Ainsworth B, Hackney AC (1994) Effects of the menstrual cycle phase on the blood lactate response to exercise Eur J Appl Physiol 69: 174-175
- McKenzie S, Phillips SM, Carter SL, Lowther S, Gibala MJ, Tarnopolsky MA (2000) Endurance exercise training attentuates leucine oxidation and BCOAD activation during exercise in humans. Am J Physiol 278: E580-E587
- Melanson KJ, Saltzman E, Russell R, Roberts SB (1996) Postprandial energy expenditure and substrate oxidation do not change during the menstrual cycle in young women. J Nutr 126: 2531-2538
- Millet L, Barbe P, Lafontan M, Berlan M, Galitzky J (1998) Catecholamine effects on lipolysis and blood flow in human abdominal and femoral tissue. J Appl Physiol 85: 181-188
- Mittendorfer B, Sidossis LS, Walser E, Chinkes DL, Wolfe RR (1998) Regional acetate kinetics and oxidation in human volunteers. Am J Physiol 274: E978-983
- Mittendorfer B, Horowitz JF, Klein S (2002) Effect of gender on lipid kinetics during endurance exercise of moderate intensity in untrained subjects. Am J Physiol 283: E58-E65

- Mohr JF, Finkel KW, Rex JH, Rodrigu JR, Ostrosky-Zeichner L (2004) Pharmokinetics of intravenous Itraconazole in stable hemodialysis patients. Antimicrob Agents Chemother 48: 3151-3153
- Nicklas BJ, Hackney AC, Sharp RL (1989) The menstrual cycle and exercise: Performance, muscle glycogen, and substrate responses. Int J Sports Med 10: 264-269
- Norton JP, Clarkson PM, Graves JE, Litchifield P, Kirwan J (1985) Serum creatine kinase activity and body composition in males and females. Human Biol 57: 591-598
- Nosaka K, Clarkson PM (1992) Relationship between post-exercise plasma CK elevation and muscle mass involved in the exercise. Int J Sports Med 13: 471-475
- Palmer GS, Dennis SC, Noakes TD, Hawley JA (1996) Assessment of the reproducibility of performance testing on an air-braked cycle ergometer. Int J Sports Med 17: 293-298
- Péronnet F, Massicotte D (1991) Table of nonprotein respiratory quotient: an update. Can J Sports Sci 16: 23-29
- Phillips SM, Atkinson SA, Tarnopolsky MA (1993) Gender differences in leucine kinetics and nitrogen balance in endurance athletes. J Appl Physiol 75: 2134-2141
- Pitha J, Pitha J (1985) Amorphous water-soluble derivatives of cyclodextrins: non-toxic dissoluton enhancing excipients. J Pharmaceut Sci 74: 987-990
- Pivarnik JM, Marichal CJ, Spillman T, Morrow JR Jr (1992) Menstrual cycle phase affects temperature regulation during endurance exercise. J Appl Physiol 72: 543-548
- Rajewski RA, Stella VJ (1996) Pharmaceutical applications of cyclodextrins. 2. In Vivo drug delivery. J Pharmaceut Sci 85: 1142-1169
- Reilly T (2000) The menstrual cycle and human performance: An overview. Biol Rhythm Res 31: 29-40

- Roepstorff C, Vistisen B, Roepstorff K, Kiens B (2004) Regulation of plasma longchain fatty acid oxidation in relation to uptake in human skeletal muscle during exercise. Am J Physiol 287: E696-E705
- Roepstorff C, Steffensen CH, Madsen M, Stallknecht B, Kanstrup I-L, Richter EA, Kiens B (2002) Gender differences in substrate utilization during submaximal exercise in endurance-trained subjects. Am J Physiol 282: E435-447
- Romijn JA, Coyle EF, Sidossis LS, Gastaldelli A, Horowitz JF, Endert E, Wolfe RR (1993) Regulation of endogenous fat and carbohydrate metabolism in relation to exercise intensity and duration. Am J Physiol 265: E380-E391
- Romijn JA, Coyle EF, Sidossis LS, Rosenblatt J, Wolfe RR (2000) Substrate metabolism during different exercise intensities in endurance-trained women. J Appl Physiol 88: 1707-1714
- Rooney TP, Kendrick ZV, Carlson J, Ellis GS, Matakevich B, Lorusso SM, McCall JA (1993) Effect of estradial on the temporal pattern of exercise-induced tissue glycogen depletion n in male rats. J Appl Physiol 75:1502-1506
- Ruby BC, Robergs RA, Waters DL, Burge M, Mermier C, Stolarczyk L (1997) Effects of estradiol on substrate turnover during exercise in amenorrheic females. Med Sci Sports Exerc 29: 1160-1169
- Ruzzin J, Péronnet F, Tremblay J, Massicotte D, Lavoie C (2003) Breath [¹³CO₂] recovery from an oral glucose load during exercise: comparison between [U-¹³C] and [1,2-¹³C]glucose. J Appl Physiol 95: 477-482
- Schoene RB, Robertson HT, Pierson DJ, Peterson AP (1981) Respiratory drives and exercise in menstrual cycles of athletic and nonathletic women. J Appl Physiol 50: 1300-1305
- Schrauwen P, van Aggel-Leijssen DPC, van Marken Lichtenbelt WD, van Baak MA, Gijsen AP, Wagenmakers AJM (1998) Validation of the [1,2-¹³C]acetate factor for



correction of [U-¹³C]palmitate oxidation rates in humans. J Physiol (Lond) 513: 215-223

- Schrauwen P, Blaak EE, van Aggel-Leijssen DPC, Borghouts LB, Wagenmakers JM (2000) Determinants of the acetate recovery factor: implications for estimation of [¹³C]substrate oxidation. Clin Sci 98: 587-592
- Schrauwen-Hinderling VB, van Loon LJC, Koopman K, Nicolay, Saris WHM, Kooi ME (2003) Intramyocellular lipid content is increased after exercise in nonexercising human skeletal muscle. J Appl Physiol 95: 2328-2332
- Seebauer M, Frühwirth M, Moser M (2002) Changes of respiratory sinus arrhythmia during the menstrual cycle depend on average heart rate. Eur JAppl Physiol 87: 309-314
- Shumate JB, Brooke MH, Carroll JE, Davis JE (1979) Increased serum creatine kinase after exercise: A sex-linked phenomenon. Neurology 29: 902-904
- Sidossis LS, Coggan AR, Gastadelli A, Wolfe RR (1995a) A new correction factor for use in tracer estimations of plasma fatty acid oxidation. Am J Physiol 269: E649-E656
- Sidossis LS, Coggan AR, Gastaldelli A, Wolfe RR (1995b) Pathway of free fatty acid oxidation in human subjects: Implications for tracer studies. J Clin Invest 95: 278-284
- Sidossis LS, Stuart CA, Shulman GI, Lopaschuk GD, Wolfe RR (1996) Glucose plus insulin regulate fat oxidation by controlling the rate of fatty acid entry into the mitochondria. J Clin Invest 98: 2244-2250
- Sidossis LS, Gastaldelli A, Klein S, Wolfe RR (1997) Regulation of plasma fatty acid oxidation during low- and high-intensity exercise. Am J Physiol 272: E1065-E1070
- Simonson DC, DeFronzo RA (1990) Indirect calorimetry: methodological and interpretative problems. Am J Physiol 258: E399-E412

- Smith I, Elton RA, Thomson WHS (1979) Carrier detection in X-linked recessive (Duchenne) muscular dystrophy: serum creatine phsophokinase values in premenarchial, menstruating, postmenopausal and pregnant normal woman. Clin Chim Acta 98: 207-216
- Sorichter S, Mair J, Koller A, Calzolari C, Huonker B, Pau B., Puschendorf B (2001) Release of muscle protens after downhill running in male and female subjects. Scand J Med Sci Sports 11: 28-32
- Spriet LL (1998) Regulation of fat/carbohydrate interaction in human skeletal muscle during exercise. Adv Exp Med Biol 441: 249-261
- Steele R. (1959) Influences of glucose loading and of injected insulin or hepatic glucose output. Ann N Y Acad Sci 82: 420-430
- Steffensen CH, Roepstorff C, Madsen M, Kiens B (2002) Myocellular triacylglycerol breakdown in females but not in males during exercise. Am J Physiol 282: E634-E642
- Stupka N, Lowther S, Chorneyko K, Bourgeois JM, Hogben C, Tarnopolsky MA (2000) Gender differences in muscle inflammation after eccentric exercise. J Appl Physiol 89: 2325-2332
- Suh S-H, Casazza GA, Horning MA, Miller BF, Brooks GA (2002) Effects of oral contraceptives on glucose flux and substrate oxidation rates during rest and exercise. J Appl Physiol 93: 42-50
- Tiidus PM (1995) Can estrogens diminish exercise induced muscle damage? Can J Appl Physiol 20: 26-38
- Tiidus PM (2000) Estrogen and gender effects on muscle damage, inflammation, and oxidative stress. Can J Appl Physiol 25: 274-287
- Trimmer JK, Casazza GA, Horning MA, Brooks GA (2001) Recovery of ¹³CO₂ during rest and exercise after [1-¹³C]acetate, [2-¹³C]acetate, and NaH¹³CO₃ infusions. Am J Physiol 281: E683-692

- Uranga AP, Levine J, Jensen M (2005) Isotope tracer measures of meal fatty acid metabolism: reproducibility and effects of the menstrual cycle. Am J Physiol 288: E547-E555
- Vander AJ, Sherman JH, Luciano DS (1994) Human Physiology. 6th Edition, McGraw-Hill, Inc. New York, USA
- Van der Meulen JH, Kuipers H, Drukker J (1991) Relationship between exerciseinduced muscle damage and enzyme release in rats. J Appl Physiol 71: 999-1004
- Van der Vusse GJ, Reneman RS (1996) Lipid metabolism in muscle. In: Handbook of Physiology. Exercise: Regulation and integration of multiple systems. Bethesda MD. American Physiological Society. Section 12: Chapter 21 pp 952-994
- Van Loon LJC (2004) Use of intramuscular triacylglycerol as a substrate source during exercise in humans. J Appl Physiol 97: 1170-1187
- Wagenmakers AJM (1999) Tracers to investigate protein and amino acid metabolism in human subjects. Proc Nutr Soc 58: 987-1000
- Warren GL, Lowe DA, Armstrong RB (1999) Measurement tools used in the study of eccentric contraction-induced injury. Sports Med 27: 43-59
- Watt MJ, Heigenhauser GJF, Spriet LL (2002) Intramuscular triacylglycerol utilization in human skeletal muscle during exercise: is there a controversy? J Appl Physiol 93: 1185-1195
- Williams TJ, Krahenbuhl GS (1997) Menstrual cycle phase and running economy. Med Sci Sports Exerc 29: 1609-1618
- Wolfe RR (1992) Radioactive and stable isotope tracers in biomedicine. Principles and practice of kinetic analysis. Wiley-Liss, Inc. New York, United States of America
- Wolfe RR (1992b) Assessment of substrate cycling in humans using tracer methodology. pp 495-523. In: Energy Metabolism. Tissue determinants and cellular



corollaries. Ed by Kinney JM and Tucker HN. Raven Press Ltd., New York, United States of America

- Wolfe RR, Shaw JHF, Nadel ER, Wolfe MH (1984) Effect of substrate intake and physiological state on background ¹³CO₂ enrichment. J Appl Physiol 56: 230-234
- Wu Wm, Wu J, Bodor N (2002) Effect of 2-hydroxypropyl-beta-cyclodextrin on the solubility, stability, and pharmacological activity of the chemical delivery system of TRH analogs. Pharmazie 57: 130-134
- Zhao Q, Zhou H, Pesco-Koplowitz L (2001) Pharmacokinetics of intravenous itraconazole followed by itraconazole oral solution in patients with human immunodeficiency virus infection. J Clin Pharmacol 41: 1319-1328
- Zderic TW, Coggan AR, Ruby BC (2001) Glucose kinetics and substrate oxidation during exercise in the follicular and luteal phases. J Appl Physiol 90: 447- 453