

Publications Xlab 2013

1. Snoer, M, Olsen, RH, Monk-Hansen, T, Pedersen, LR, Haugaard, SB, **Dela, F**, Prescott, E. Coronary flow reserve predicts cardiopulmonary fitness in patients with coronary artery disease independently of systolic and diastolic function. *Echocardiography* Epub ahead of print, 2013.
2. Sylow, L, Kleinert, M, Pehmoller, C, **Prats, C**, Chiu, TT, Klip, A, Richter, EA, Jensen, TE. Akt and Rac1 signaling are jointly required for insulin-stimulated glucose uptake in skeletal muscle and downregulated in insulin resistance. *Cell Signal* Nov 9;26(2):323-331, 2013.
3. Hansen, AL, Carstensen, B, **Helge, JW**, Johansen, NB, Gram, B, Christiansen, JS, Brage, S, Lauritzen, T, Jorgensen, ME, Aadahl, M, Witte, DR. Combined heart rate- and accelerometer-assessed physical activity energy expenditure and associations with glucose homeostasis markers in a population at high risk of developing diabetes: the ADDITION-PRO study. *Diabetes Care* 36: 3062-3069, 2013.
4. **Prats, C**, Gomez-Cabello, A, Nordby, P, Andersen, JL, **Helge, JW**, **Dela, F**, Baba, O, Ploug, T. An optimized histochemical method to assess skeletal muscle glycogen and lipid stores reveals two metabolically distinct populations of type I muscle fibers. *PLoS One*. 8:e77774, 2013.
5. **Larsen, S**, Díez-Sánchez, C, Rabøl, R, Royo, IA, **Dela, F**, **Helge, JW**. Increased intrinsic mitochondrial function in humans with mitochondrial haplogroup H. *Biochim Biophys Acta*. 2013. Epub ahead of print.
6. **Larsen, S**, **Kraunsøe, R**, **Gram, M**, Gnaiger, E, **Helge, JW**, **Dela, F**. The best approach: Homogenization or manual permeabilization of human skeletal muscle fibers for respirometry? *Anal Biochem*. 2013. Epub ahead of print.
7. Mortensen B, Friedrichsen, M, Andersen, NR, Alibegovic, AC, Højbjerg, L, Sonne, MP, Stallknecht, B, **Dela, F**, Wojtaszewski, JF, Vaag, A. Physical inactivity affects skeletal muscle insulin signaling in a birth weight-dependent manner. *J Diabetes Complications*. 2013. Epub ahead of print.
8. Eriksen, L, Curtis, T, Grønbæk, M, **Helge, JW**, Tolstrup JS. The association between physical activity, cardiorespiratory fitness and self-rated health. *Prev Med*. 57(6): 900-2, 2013.
9. Hansen, AW, Beyer, N, Flensburg-Madsen, T, Grønbæk, M, **Helge JW**. Muscle strength and physical activity are associated with self-rated health in an adult Danish population. *Prev Med*. 57(6):792-8, 2013.
10. Ringholm, S, Olesen, J, Pedersen, JT, Brandt, CT, Halling, JF, Hellsten, Y, **Prats, C**, Pilegaard, H. Effect of lifelong resveratrol supplementation and exercise training on skeletal muscle oxidative capacity in aging mice; impact of PGC-1alpha. *Exp Gerontol*. 48: 1311-1318, 2013.

11. **Lund, MT**, Taudorf, L, Hartmann, B, **Helge, JW**, Holst, JJ, **Dela, F**. Meal induced gut hormone secretion is altered in aerobically trained compared to sedentary young healthy males. *Eur J Appl Physiol*. 113: 2737-2747, 2013.
12. **Munch-Andersen, T**, Sorensen, K, Aachmann-Andersen, NJ, Aksglaede, L, Juul, A, **Helge, JW**. Ethnic differences in leptin and adiponectin levels between Greenlandic Inuit and Danish children. *Int J Circumpolar Health*. 72. 2013.
13. **Gram, M, Dahl, R, Dela, F**. Physical inactivity and muscle oxidative capacity in humans. *Eur J Sport Sci*. 2013. Epub ahead of print.
14. Molsted, S, Harrison, AP, Eidemak, I, **Dela, F**, Andersen, JL. Improved glucose tolerance after high-load strength training in patients undergoing dialysis. *Nephron Clin Pract* 123: 134-141, 2013.
15. Alsted, TJ, Ploug, T, **Prats, C**, Serup, AK, Hoeg, L, **Schjerling, P**, Holm, C, Zimmermann, R, Fledelius, C, Galbo, H, Kiens, B. Contraction-induced lipolysis is not impaired by inhibition of hormone-sensitive lipase in skeletal muscle. *J Physiol*. 591: 5141-5155, 2013.
16. Asmar, M, Simonsen, L, Arnglim, N, Holst, JJ, **Dela, F**, Bülow, J. Glucose-dependent insulinotropic polypeptide has impaired effect on abdominal, subcutaneous adipose tissue metabolism in obese subjects. *Int J Obes (Lond)*. 2013. Epub ahead of print.
17. Hoier, B, **Prats, C**, Qvortrup, K, Pilegaard, H, Bangsbo, J, Hellsten, Y. Subcellular localization and mechanism of secretion of vascular endothelial growth factor in human skeletal muscle. *FASEB J*. 27: 3496-3504, 2013.
18. Munch-Andersen, T, Sorensen, K, Andersen, A.L., Aachmann-Andersen, NJ, Aksglaede, L, Juul, A, **Helge, JW**. Adverse metabolic risk profiles in Greenlandic Inuit children compared to Danish children. *Obesity (Silver Spring)*. 21: 1226-1231, 2013.
19. Kristensen, PL, Pedersen-Bjergaard, U, Kjær, TW, Olsen, NV, **Dela, F**, Holst, JJ, Faber, J, Tarnow, L, Thorsteinsson, B. Influence of erythropoietin on cognitive performance during experimental hypoglycemia in patients with type 1 diabetes mellitus: a randomized cross-over trial. *PLoS One*. 8: e59672, 2013.
20. Hulstrom, V, **Prats, C**, Vinten, J. Adipocyte size and cellular expression of caveolar proteins analyzed by confocal microscopy. *Am J Physiol Cell Physiol*. 304: C1168-C1175, 2013.
21. Stride, N, **Larsen, S**, Hey-Mogensen, M, Hansen, CN, **Prats, C**, Steinbruchel, D, Kober, L, **Dela, F**. Impaired mitochondrial function in chronically ischemic human heart. *Am J Physiol Heart Circ Physiol*. 304: H1407-H1414, 2013.
22. Sylow, L, Jensen, TE, Kleinert, M, Hojlund, K, Kiens, B, Wojtaszewski, J, **Prats, C**, Schjerling, P, Richter, EA. Rac1 signaling is required for insulin-stimulated glucose uptake and is dysregulated in insulin-resistant murine and human skeletal muscle. *Diabetes* 62: 1865-1875, 2013.

23. Hansen, AW, Dahl-Petersen, I, **Helge, JW**, Brage, S, Grønbæk, M, Flensburg-Madsen, T. Validation of an Internet-Based Long Version of the International Physical Activity Questionnaire in Danish Adults Using Combined Accelerometry and Heart Rate Monitoring. *J Phys Act Health*. 2013. Epub ahead of print.
24. Jeppesen, J, Maarbjerg, SJ, Jordy, AB, Fritzen, AM, Pehmoller, C, Sylow, L, Serup, AK, Jessen, N, Thorsen, K, **Prats, C**, Qvortrup, K, Dyck, JR, Hunter, RW, Sakamoto, K, Thomson, DM, Schjerling, P, Wojtaszewski, JF, Richter, EA, Kiens, B. LKB1 regulates lipid oxidation during exercise independently of AMPK. *Diabetes*. 62: 1490-1499, 2013.
25. Kristensen, JM, **Larsen, S, Helge, JW, Dela, F**, Wojtaszewski, JF. Two weeks of metformin treatment enhances mitochondrial respiration in skeletal muscle of AMPK kinase dead but not wild type mice. *PLoS One*. 8: 353533, 2013.
26. **Larsen, S, Stride, N**, Hey-Mogensen, M, **Hansen, CN**, Bang, LE, Bundgaard, H, Nielsen, LB, **Helge, JW, Dela, F**. Simvastatin effects on skeletal muscle: relation to decreased mitochondrial function and glucose intolerance. *J Am Coll Cardiol*. 61: 44-53, 2013.
27. Sylow, L, Jensen, TE, Kleinert, M, Mouatt, JR, Maarbjerg, SJ, Jeppesen, J, **Prats, C**, Chiu, TT, Boguslavsky, S, Klip, A, Schjerling, P, Richter, EA. Rac1 is a novel regulator of contraction-stimulated glucose uptake in skeletal muscle. *Diabetes*. 62: 1139-1151, 2013.
28. Snoer, M, Monk-Hansen, T, Olsen, RH, Pedersen, LR, Nielsen, OW, Rasmusen, H, **Dela, F**, Prescott, E. Coronary flow reserve as a link between diastolic and systolic function and exercise capacity in heart failure. *Eur Heart J Cardiovasc Imaging* 14: 677-683, 2013.
29. Reihmane, D, **Hansen, AV, Gram, M, Kuhlman, AB, Nørregaard, J**, Pedersen, HP, **Lund, MT, Helge, JW, Dela, F**. Immobilization increases interleukin-6, but not tumour necrosis factor-alpha, release from the leg during exercise in humans. *Exp Physiol* 98: 778-783, 2013.
30. Stride, N, **Larsen, S**, Hey-Mogensen, M, Sander, K, **Lund, JT**, Gustafsson, F, Kober L, **Dela, F**. Decreased mitochondrial oxidative phosphorylation capacity in the human heart with left ventricular systolic dysfunction. *Eur J Heart Fail*. 15: 150-157, 2013.
31. **Dela, F, Helge, JW**. Insulin resistance and mitochondrial function in skeletal muscle. *Int J Biochem Cell Biol*. 45: 11-15, 2013.
32. Reihmane, D, Jurka, A, Tretjakovs, P, **Dela, F**. Increase in IL-6, TNF-alpha, and MMP-9, but not sICAM-1, concentrations depends on exercise duration. *Eur J Appl Physiol*. 113: 851-858, 2013.
33. Kristensen, D, **Prats, C, Larsen, S**, Ara, I, **Dela, F, Helge, JW**. Ceramide content is higher in type I compared to type II fibers in obesity and type 2 diabetes mellitus. *Acta Diabetol*. 50: 705-712, 2013.

34. **Lund MT**, Dalby S, Hartmann B, **Helge JW**, Holst JJ, **Dela F**. The incretin effect does not differ in trained and untrained, young, healthy men. *Acta Physiol (Oxf)*. 2013. Epub ahead of print.
35. Maynard S, Keijzers G, **Gram M**, Desler C, Bendix L, Budtz-Jorgensen E, Molbo D, Croteau DL, Osler M, Stevnsner T, Rasmussen LJ, **Dela F**, Avlund K, Bohr VA. Relationships between human vitality and mitochondrial respiratory parameters, reactive oxygen species production and dNTP levels in peripheral blood mononuclear cells. *Aging (Albany NY)*. 2013. Epub ahead of print.