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## Kvalifikationer

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## Ansættelse

### Lektor

Treebak Group  
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1 aug. 2014 → nu

### Gruppenleder

Lektor  
LUKKET: Integrative Metabolism and Environmental Influences  
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## Publikationer

### **Nicotinamide riboside does not alter mitochondrial respiration, content or morphology in skeletal muscle from obese and insulin resistant men**

Dollerup, O. L., Chubanava, Sabina, Agerholm, M., Søndergård, S. D., Altıntaş, Ali, Møller, A. B., Høyer, K. F., Ringgaard, S., Stødkilde-Jørgensen, H., Lavery, G. G., Barrès, Romain, Larsen, Steen, Prats Gavalda, Clara, Jessen, N. & Treebak, Jonas Thue, feb. 2020, I : The Journal of Physiology. 598, 4, s. 731-754

### **Fasting- and ghrelin-induced food intake is regulated by NAMPT in the hypothalamus**

de Guia, R. M., Hassing, Anna Skab, Skov, Louise Julie, Ratner, C., Plucinska, Kaja, Madsen, S., Diep, T. A., dela Cruz, Gelo, Trammell, Sam, Sustarsic, Elahu Gosney, Emanuelli, Brice, Gillum, Matthew Paul, Gerhart-Hines, Zach, Holst, Birgitte & Treebak, Jonas Thue, jan. 2020, I : Acta Physiologica.

### **Effects of Nicotinamide Riboside on Endocrine Pancreatic Function and Incretin Hormones in Nondiabetic Men With Obesity**

Dollerup, O. L., Trammell, Sam, Hartmann, Bolette, Holst, Jens Juul, Christensen, B., Møller, N., Gillum, Matthew Paul, Treebak, Jonas Thue & Jessen, N., 1 nov. 2019, I : The Journal of clinical endocrinology and metabolism. 104, 11, s. 5703-5714 12 s.

### **ADAMTS9 regulates skeletal muscle insulin sensitivity through extracellular matrix alterations**

Graae, A., Grarup, Niels, Ribel-Madsen, R., Lystbæk, S. H., Boesgaard, T., Staiger, H., Fritsche, A., Wellner, N., Sulek, Karolina, Kjølby, M. F., Backe, M. B., Chubanava, Sabina, Prats Gavalda, Clara, Serup, A. K. L., Birk, Jesper Bratz, Dubail, J., Gillberg, Linn Maria Ellinor, Vienberg, S. G., Nykjær, A., Kiens, Bente, Wojtaszewski, Jørgen F P, Larsen, Steen, Apte, S. S., Häring, H., Vaag, A., Zethelius, B., Pedersen, Oluf Borbye, Treebak, Jonas Thue, Hansen, Torben & Holst, Birgitte, 2019, I : Diabetes. 68, 3, s. 502-514

**Aerobic and resistance exercise training reverses age-dependent decline in NAD(+) salvage capacity in human skeletal muscle**

de Guia, R. M., Agerholm, M., Nielsen, Thomas Svava, Consitt, L. A., Sogaard, D., Helge, Jørn Wulff, Larsen, Steen, Brandauer, J., Houmard, J. A. & Treebak, Jonas Thue, 2019, I : *Physiological Reports*. 7, 12, 15 s., e14139.

**Assessment of mouse liver [1-<sup>13</sup>C]pyruvate metabolism by dynamic hyperpolarized MRS**

Faarkrog Høyer, K., Laustsen, C., Ringgaard, S., Qi, H., Mariager, C. Ø., Nielsen, Thomas Svava, Sundekilde, U. K., Treebak, Jonas Thue, Jessen, N. & Stødkilde-Jørgensen, H., 2019, I : *Journal of Endocrinology*. 242, 3, s. 251-260 9 s.

**Cytosolic ROS production by NADPH oxidase 2 regulates muscle glucose uptake during exercise**

Henriquez Olguín, Carlos, Knudsen, J. R., Raun, Steffen Henning, Li, Z., Dalbram, Emilie, Treebak, Jonas Thue, Sylow, Lykke, Holmdahl, R., Richter, Erik A., Jaimovich, E. & Jensen, Thomas Elbenhardt, 2019, I : *Nature Communications*. 10, 11 s., 4623.

**Electrical pulse stimulation induces differential responses in insulin action in myotubes from severely obese individuals**

Park, S., Turner, K. D., Zheng, D., Brault, J. J., Zou, K., Chaves, A. B., Nielsen, Thomas Svava, Tanner, C. J., Treebak, Jonas Thue & Houmard, J. A., 2019, I : *The Journal of Physiology*. 597, 2, s. 449-466

**Fiber type-specific effects of acute exercise on insulin-stimulated AS160 phosphorylation in insulin-resistant rat skeletal muscle**

Pataky, M. W., Van Acker, S. L., Dhingra, R., Freeburg, M. M., Arias, E. B., Oki, K., Wang, H., Treebak, Jonas Thue & Cartee, G. D., 2019, I : *American Journal of Physiology: Endocrinology and Metabolism*. 317, 6, s. E984-E998

**Genes controlling the activation of natural killer lymphocytes are epigenetically remodeled in intestinal cells from germ-free mice**

Poupeau, A., Garde, C., Sulek, Karolina, Citirikaya, K., Treebak, Jonas Thue, Arumugam, Mani, Simar, D., Olofsson, L. E., Bäckhed, Gert Fredrik & Barrès, Romain, 2019, I : *F A S E B Journal*. 33, 2, s. 2719-2731 13 s.

**Mitochondrial function in liver cells is resistant to perturbations in NAD<sup>+</sup> salvage capacity**

Dall, Morten, Trammell, Sam, Asping, M., Hassing, Anna Skab, Agerholm, M., Vienberg, S. G., Gillum, Matthew Paul, Larsen, Steen & Treebak, Jonas Thue, 2019, I : *The Journal of Biological Chemistry*. 294, 36, s. 13304-13326 23 s.

**The aromatic amino acid sensor GPR142 controls metabolism through balanced regulation of pancreatic and gut hormones**

Rudenko, Olga, Shang, J., Munk, A., Ekberg, J. P., Petersen, N., Engelstoft, M. S., Egerod, Kristoffer Lihme, Hjorth, Siv Annegrethe, Wu, M., Feng, Y., Zhou, Y., Mokrosinski, J., Thams, P., Reimann, F., Gribble, F., Rehfeld, Jens Frederik, Holst, Jens Juul, Treebak, Jonas Thue, Howard, A. D. & Schwartz, Thue W., 2019, I : *Molecular Metabolism*. 19, s. 49-64 6 s.

**Time of Exercise Specifies the Impact on Muscle Metabolic Pathways and Systemic Energy Homeostasis**

Sato, S., Basse, A. L., Schönke, M., Chen, S., Samad, M., Altıntaş, Ali, Laker, R. C., Dalbram, Emilie, Barrès, Romain, Baldi, P., Treebak, Jonas Thue, Zierath, Juleen R & Sassone-Corsi, P., 2019, I : *Cell Metabolism*. 30, 1, s. 92-110.e4 18 s.

**Underpowered or negative? A crucial distinction**

Dollerup, O. L., Treebak, Jonas Thue & Jessen, N., 2019, I : *Diabetologia*. 62, 6, s. 1094-1095 2 s.

**Voluntary wheel running in the late dark phase ameliorates diet-induced obesity in mice without altering insulin action**

Dalbram, Emilie, Basse, A. L., Zierath, Juleen R & Treebak, Jonas Thue, 2019, I : *Journal of Applied Physiology*. 126, 4, s. 993-1005 13 s.

**NAMPT-mediated NAD<sup>+</sup> biosynthesis is indispensable for adipose tissue plasticity and development of obesity**

Nielsen, K. N., Peics, J., Ma, T., Karavaeva, Iuliia, Dall, Morten, Chubanava, Sabina, Basse, A. L., Dmytriyeva, Oksana, Treebak, Jonas Thue & Gerhart-Hines, Z., maj 2018, I : *Molecular Metabolism*. 11, s. 178-188 11 s.

**A randomized placebo-controlled clinical trial of nicotinamide riboside in obese men: safety, insulin-sensitivity, and lipid-mobilizing effects**

Dollerup, O. L., Christensen, B., Svart, M., Schmidt, M. S., Sulek, Karolina, Ringgaard, S., Stødkilde-Jørgensen, H., Møller, N., Brenner, C., Treebak, Jonas Thue & Jessen, N., 2018, I : American Journal of Clinical Nutrition. 108, 2, s. 343-353 11 s.

**AMPK in skeletal muscle function and metabolism**

Kjøbsted, Rasmus, Hingst, Janne Rasmuss, Fentz, J., Foretz, M., Sanz, M., Pehmøller, C., Shum, M., Marette, A., Mounier, R., Treebak, Jonas Thue, Wojtaszewski, Jørgen F P, Viollet, B. & Lantier, L., 2018, I : F A S E B Journal. 32, 4, s. 1741-1777 37 s.

**Age-dependent alterations of glucose clearance and homeostasis are temporally separated and modulated by dietary fat**

Damgaard, Mads Thue Fejerskov, Pærregaard, S. I., Søgaard, I., Andersen, M. A., Paulson, J. N., Treebak, Jonas Thue, Sina, C., Holm, J. B., Kristiansen, Karsten & Jensen, Benjamin Anderschou Holbech, 2018, I : Journal of Nutritional Biochemistry. 54, s. 66-76 11 s.

**Hepatic NAD<sup>+</sup> levels and NAMPT abundance are unaffected during prolonged high-fat diet consumption in C57BL/6JBomTac mice**

Dall, Morten, Penke, M., Sulek, Karolina, Matz-Soja, M., Holst, Birgitte, Garten, A., Kiess, W. & Treebak, Jonas Thue, 2018, I : Molecular and Cellular Endocrinology. 473, s. 245-256 12 s.

**Perturbations in the p53/miR-34a/SIRT1 pathway in the R6/2 Huntington's disease model**

Reynolds, R. H., Petersen, M. H., Willert, C. W., Heinrich, M., Nymann, N., Dall, Morten, Treebak, Jonas Thue, Björkqvist, M., Silaharoglu, Asli, Hasholt, Lis Frydenreich & Nørremølle, Anne, 2018, I : Molecular and Cellular Neuroscience. 88, s. 118-129

**Perturbations of NAD<sup>+</sup> salvage systems impact mitochondrial function and energy homeostasis in mouse myoblasts and intact skeletal muscle**

Andersen, M. A., Dall, Morten, Jensen, Benjamin Anderschou Holbech, Prats Gavaldà, Clara, Madsen, S., Basse, A. L., Graae, A., Risis, S., Goldenbaum, J., Quistorff, Bjørn, Larsen, Steen, Vienberg, S. G. & Treebak, Jonas Thue, 2018, I : American Journal of Physiology: Endocrinology and Metabolism. 314, 4, s. E377-E395 19 s.

**Sevoflurane Impairs Insulin Secretion and Tissue-Specific Glucose Uptake *In Vivo***

Høyer, K. F., Nielsen, Thomas Svava, Risis, S., Treebak, Jonas Thue & Jessen, N., 2018, I : Basic & Clinical Pharmacology & Toxicology. 123, 6, s. 732-738

**Skeletal Muscle Insulin Sensitivity Show Circadian Rhythmicity Which Is Independent of Exercise Training Status**

Basse, A. L., Dalbram, Emilie, Larsson, L., Gerhart-Hines, Zach, Zierath, Juleen R & Treebak, Jonas Thue, 2018, I : Frontiers in Physiology. 9, s. 1-12 12 s., 1198.

**Skeletal muscle O-GlcNAc transferase is important for muscle energy homeostasis and whole-body insulin sensitivity**

Shi, H., Munk, A., Nielsen, Thomas Svava, Daughtry, M. R., Larsson, L., Li, S., Høyer, K. F., Geisler, H. W., Sulek, Karolina, Kjøbsted, Rasmus, Fisher, T., Andersen, M. M., Shen, Z., Hansen, U. K., England, E. M., Cheng, Z., Højlund, K., Wojtaszewski, Jørgen F P, Yang, X., Hulver, M. W., Helm, R. F., Treebak, Jonas Thue & Gerrard, D. E., 2018, I : Molecular Metabolism. 11, s. 160-177 18 s.

**Enhanced muscle insulin sensitivity after contraction/exercise is mediated by AMPK**

Kjøbsted, Rasmus, Munk-Hansen, N., Birk, Jesper Bratz, Foretz, M., Viollet, B., Björnholm, M., Zierath, Juleen R, Treebak, Jonas Thue & Wojtaszewski, Jørgen F P, 2017, I : Diabetes. 66, 3, s. 598-612 15 s.

**Dietary fat drives whole-body insulin resistance and promotes intestinal inflammation independent of body weight gain**

Jensen, Benjamin Anderschou Holbech, Nielsen, Thomas Svava, Fritzen, Andreas Mæchel, Holm, J. B., Fjære, E., Serup, A. K. L., Borkowski, K., Risis, S., Pærregaard, S. I., Søgaard, I., Poupeau, A. A. G., Poulsen, M., Ma, T., Sina, C., Kiens, Bente, Madsen, L., Kristiansen, Karsten & Treebak, Jonas Thue, 2016, I : Metabolism. 65, 12, s. 1706-1719 14 s.

**Regulation of autophagy in human skeletal muscle: effects of exercise, exercise training and insulin stimulation**

Fritzen, Andreas Mæchel, Madsen, A. L. B., Kleinert, Maximilian, Treebak, Jonas Thue, Lundsgaard, Anne-Marie, Jensen, Thomas Elbenhardt, Richter, Erik A., Wojtaszewski, Jørgen F P, Kiens, Bente & Frøsig, C., 2016, 1 : Journal of Physiology. 594, 3, s. 745-761 17 s.

**Role of AMP-activated protein kinase for regulating post-exercise insulin sensitivity**

Kjøbsted, Rasmus, Wojtaszewski, Jørgen F P & Treebak, Jonas Thue, 2016, *AMP-activated Protein Kinase*. Cordero, M. D. & Viollet, B. (red.). Springer, s. 81-126 46 s. (E X S, Bind 107).

**Deep proteomics of mouse skeletal muscle enables quantitation of protein isoforms, metabolic pathways and transcription factors**

Deshmukh, Atul Shahaji, Murgia, M., Nagaraja, N., Treebak, Jonas Thue, Cox, J. & Mann, Matthias, apr. 2015, 1 : Molecular and Cellular Proteomics. 14, 4, s. 841-853

**AMP-activated protein kinase controls exercise training- and AICAR-induced increases in SIRT3 and MnSOD**

Brandauer, J., Andersen, M. A., Kellezi, H., Risis, S., Frøsig, C., Vienberg, S. G. & Treebak, Jonas Thue, mar. 2015, 1 : Frontiers in Physiology. 6, 16 s., 85.

**Biotin starvation causes mitochondrial protein hyperacetylation and partial rescue by the SIRT3-like deacetylase Hst4p**

Madsen, C. T., Sylvestersen, K. B., Young, C., Buch-Larsen, Sara Charlotte, Poulsen, J. W., Andersen, M. A., Palmqvist, E. A., Hey-Mogensen, M., Jensen, P. B., Treebak, Jonas Thue, Lisby, Michael & Nielsen, Michael Lund, 2015, 1 : Nature Communications. 6, 12 s., 7726.

**Hepatic NAD salvage pathway is enhanced in mice on a high-fat diet**

Penke, M., Larsen, P. S., Schuster, S., Dall, Morten, Jensen, Benjamin Anderschou Holbech, Gorski, T., Meusel, A., Richter, S., Vienberg, S. G., Treebak, Jonas Thue, Kiess, W. & Garten, A., 2015, 1 : Molecular and Cellular Endocrinology. 412, s. 65-72 8 s.

**Prior AICAR stimulation increases insulin sensitivity in mouse skeletal muscle in an AMPK-dependent manner**

Kjøbsted, Rasmus, Treebak, Jonas Thue, Fentz, J., Lantier, L., Viollet, B., Birk, Jesper Bratz, Schjerling, P., Bjørnholm, M., Zierath, Juleen R & Wojtaszewski, Jørgen F P, 2015, 1 : Diabetes. 64, 6, s. 2042-2055 14 s.

**A common Greenlandic *TBC1D4* variant confers muscle insulin resistance and type 2 diabetes**

Moltke, Ida, Grarup, Niels, Jørgensen, M. E., Bjerregaard, P., Treebak, Jonas Thue, Fumagalli, M., Korneliussen, Thorfinn Sand, Andersen, M. A., Nielsen, Thomas Svava, Krarup, N. T., Gjesing, Anette Marianne Prior, Zierath, Juleen R, Linneberg, Allan René, Wu, X., Sun, G., Jin, X., Al-Aama, J., Wang, Jun, Borch-Johnsen, K., Pedersen, Oluf Borbye, Nielsen, R., Albrechtsen, Anders & Hansen, Torben, 2014, 1 : Nature. 512, 7513, s. 190-193 4 s.

**AMPK controls exercise endurance, mitochondrial oxidative capacity, and skeletal muscle integrity**

Lantier, L., Fentz, J., Mounier, R., Leclerc, J., Treebak, Jonas Thue, Pehmøller, C. K., Sanz, N., Sakakibara, I., Saint-Amand, E., Rimbaud, S., Maire, P., Marette, A., Ventura-Clapier, R., Ferry, A., Wojtaszewski, Jørgen F P, Foretz, M. & Viollet, B., 2014, 1 : F A S E B Journal. 28, 7, s. 3211-3224 14 s.

**Acute exercise and physiological insulin induce distinct phosphorylation signatures on TBC1D1 and TBC1D4 in human skeletal muscle**

Trebak, Jonas Thue, Pehmøller, C., Kristensen, Jonas Møller, Kjøbsted, Rasmus, Birk, Jesper Bratz, Schjerling, P., Richter, Erik A., Goodyear, L. J. & Wojtaszewski, Jørgen F P, 2014, 1 : Journal of Physiology. 592, 2, s. 351-375 25 s.

**GLUT4 and glycogen synthase are key players in bed rest-induced insulin resistance. Diabetes 2012;61:1090-1099**

Biensø, R. S., Ringholm, S., Kiilerich, K., Achmann-Andersen, N., Krogh-Madsen, Rikke, Guerra, B., Plomgaard, Peter Stendahl, van Hall, Gerrit, Treebak, Jonas Thue, Saltin, B., Lundby, C., Calbet, J. A. L., Pilegaard, Henriette & Wojtaszewski, Jørgen F P, 2014, 1 : Diabetes. 63, 9, 1 s., 3159.

### **Sustained AS160 and TBC1D1 phosphorylations in human skeletal muscle 30 minutes after a single bout of exercise**

Vendelbo, M. H., Møller, A. B., Treebak, Jonas Thue, Gormsen, L. C., Goodyear, L. J., Wojtaszewski, Jørgen F P, Jørgensen, J. O. L., Møller, N. & Jessen, N., 2014, I : Journal of Applied Physiology. 117, 3, s. 289-296 8 s.

### **Two weeks of metformin treatment induces AMPK dependent enhancement of insulin-stimulated glucose uptake in mouse soleus muscle**

Kristensen, Jonas Møller, Treebak, Jonas Thue, Schjerling, P., Goodyear, L., Wojtaszewski, J. F. P. & Wojtaszewski, Jørgen F P, 2014, I : American Journal of Physiology: Endocrinology and Metabolism. 306, 10, s. E1099-E1109 11 s.

### **Contraction and AICAR Stimulate IL-6 Vesicle Depletion From Skeletal Muscle Fibers In Vivo**

Lauritzen, H. P. M. M., Brandauer, J., Schjerling, P., Koh, H., Treebak, Jonas Thue, Hirshman, M. F., Galbo, Henrik & Goodyear, L. J., sep. 2013, I : Diabetes. 62, 9, s. 3081-92 12 s.

### **Insulin stimulation regulates AS160 and TBC1D1 phosphorylation sites in human skeletal muscle**

Middelbeek, R. J. W., Chambers, M. A., Tantiwong, P., Treebak, Jonas Thue, An, D., Hirshman, M. F., Musi, N. & Goodyear, L. J., jun. 2013, I : Nutrition and Diabetes. 3, 74, s. e74

### **AMP-activated protein kinase regulates nicotinamide phosphoribosyl transferase expression in skeletal muscle**

Brandauer, J., Vienberg, S. G., Andersen, M. A., Jørgensen, Stine Ringholm, Risis, S., Larsen, P., Kristensen, Jonas Møller, Frøsig, C., Leick, L., Fentz, J., Jørgensen, S. B., Kiens, Bente, Wojtaszewski, Jørgen F P, Richter, Erik A., Zierath, Juleen R, Goodyear, L. J., Pilegaard, Henriette & Treebak, Jonas Thue, 2013, I : Journal of Physiology. 591, s. 5207-5220 14 s.

### **AMPK and insulin action: Responses to ageing and high fat diet**

Frøsig, C., Jensen, Thomas Elbenhardt, Jeppesen, J., Pehmøller, C., Treebak, Jonas Thue, Maarbjerg, S. J., Kristensen, Jonas Møller, Sylow, L., Alsted, T. J., Schjerling, P., Kiens, Bente, Wojtaszewski, Jørgen F P & Richter, Erik A., 2013, I : P L o S One. 8, 5, s. e62338 11 s.

### **Effekter af dyb læringstilgang på studerende med overflade og dyb tilgang til læring**

Trebak, Jonas Thue, 2013, *Improving University Science Teaching and Learning: Pedagogical Projects 2012*. Ulriksen, L., Sølberg, J. & Hansen, H. W. (red.). 1 udg. Department of Science Education, University of Copenhagen, Bind 5. s. 19-34 15 s.

### **Impairments in site-specific AS160 phosphorylation and effects of exercise training**

Consitt, L. A., Van Meter, J., Newton, C. A., Collier, D. N., Dar, M. S., Wojtaszewski, Jørgen F P, Trebak, Jonas Thue, Tanner, C. J. & Houmard, J. A., 2013, I : Diabetes. 62, 10, s. 3437-3447 11 s.

### **Acute exercise remodels promoter methylation in human skeletal muscle**

Barrès, Romain, Yan, J., Egan, B., Trebak, Jonas Thue, Rasmussen, M., Fritz, T., Caidahl, K., Krook, A., O'Gorman, D. J. & Zierath, Juleen R, 7 mar. 2012, I : Cell Metabolism. 15, 3, s. 405-11 7 s.

### **5'-AMP activated protein kinase is involved in the regulation of myocardial $\beta$ -oxidative capacity in mice**

Stride, N., Larsen, S., Trebak, Jonas Thue, Hansen, C. N., Hey-Mogensen, M., Speerschneider, T., Jensen, Thomas Elbenhardt, Jeppesen, J., Wojtaszewski, Jørgen F P, Richter, Erik A., Køber, Lars Valeur & Dela, Flemming, 22 feb. 2012, I : Frontiers in Physiology. 3, 7 s., 00033.

### **GLUT4 and glycogen synthase are key players in bed rest-induced insulin resistance**

Biensø, R. S., Jørgensen, Stine Ringholm, Kilerich, K., Aachmann-Andersen, N. J., Krogh-Madsen, Rikke, Guerra, B., Plomgaard, Peter Stendahl, van Hall, Gerrit, Trebak, Jonas Thue, Saltin, B., Lundby, C., Calbet, J. A. L., Pilegaard, Henriette & Wojtaszewski, Jørgen F P, 2012, I : Diabetes. 61, 5, s. 1090-1099 10 s.

### **Insulin resistance after a 72-h fast is associated with impaired AS160 phosphorylation and accumulation of lipid and glycogen in human skeletal muscle**

Vendelbo, M., Clasen, B. F. F., Trebak, Jonas Thue, Møller, L., Krusenstjerna-Hafstrøm, T., Madsen, M., Nielsen, Thomas Svava, Stødkilde-Jørgensen, H., Pedersen, S. B., Jørgensen, J. O. L., Goodyear, L. J., Wojtaszewski, Jørgen F P, Møller, N. & Jessen, N., 2012, I : American Journal of Physiology: Endocrinology and Metabolism. 302, 2, s. E190-E200 11 s.

**Impaired insulin-induced site-specific phosphorylation of TBC1 domain family, member 4 (TBC1D4) in skeletal muscle of type 2 diabetes patients is restored by endurance exercise-training**

Vind, B. F., Pehmøller, C., Treebak, Jonas Thue, Birk, Jesper Bratz, Hey-Mogensen, M., Beck-Nielsen, H., Zierath, J. R., Wojtaszewski, Jørgen F P & Højlund, K., 2011, I : *Diabetologia*. 54, 1, s. 157-167 11 s.

**Molecular mechanism by which AMP-activated protein kinase activation promotes glycogen accumulation in muscle**

Hunter, R. W., Treebak, Jonas Thue, Wojtaszewski, Jørgen F P & Sakamoto, Kei, 2011, I : *Diabetes*. 60, 3, s. 766-774 9 s.

**Sucrose counteracts the anti-inflammatory effect of fish oil in adipose tissue and increases obesity development in mice**

Ma, T., Liasset, B., Hao, Q., Petersen, R. K., Fjære, E., Ngo, H. T., Lillefosse, H. H., Jørgensen, Stine Ringholm, Sonne, Si Brask, Treebak, Jonas Thue, Pilegaard, Henriette, Frøylund, L., Kristiansen, Karsten & Madsen, L., 2011, I : *P L o S One*. 6, 6, 12 s.

**Identification of a novel phosphorylation site on TBC1D4 regulated by AMP-activated protein kinase in skeletal muscle**

Trebak, Jonas Thue, Taylor, E. B., Witczak, C. A., An, D., Toyoda, T., Koh, H., Xie, J., Feener, E. P., Wojtaszewski, Jørgen F P, Hirshman, M. F. & Goodyear, L. J., 2010, I : *American Journal of Physiology: Cell Physiology*. 298, 2, s. C377-C385 9 s.

**Sucrose nonfermenting AMPK-related kinase (SNARK) mediates contraction-stimulated glucose transport in mouse skeletal muscle**

Koh, H., Toyoda, T., Fujii, N., Jung, M. M., Rathod, A., Middelbeek, R. J., Lessard, S. J., Trebak, Jonas Thue, Tsuchihara, K., Esumi, H., Richter, Erik A., Wojtaszewski, Jørgen F P, Hirshman, M. F. & Goodyear, L. J., 2010, I : *Proceedings of the National Academy of Science of the United States of America*. 107, 35, s. 15541-15546 6 s.

**A-769662 activates AMPK {beta}1-containing complexes but induces glucose uptake through a PI3 kinase-dependent pathway in mouse skeletal muscle**

Trebak, Jonas Thue, Birk, Jesper Bratz, Hansen, B. F., Olsen, G. S. & Wojtaszewski, Jørgen F P, 2009, I : *American Journal of Physiology: Cell Physiology*. 297, 4, s. C1041-C1052 12 s.

**Genetic disruption of AMPK signaling abolishes both contraction- and insulin-stimulated TBC1D1 phosphorylation and 14-3-3 binding in mouse skeletal muscle**

Pehmøller, C., Treebak, Jonas Thue, Birk, Jesper Bratz, Chen, S., Mackintosh, C., Hardie, D. G., Richter, Erik A. & Wojtaszewski, Jørgen F P, 2009, I : *American Journal of Physiology: Endocrinology and Metabolism*. 297, 3, s. E665-E675 11 s.

**Genetic impairment of AMPK{alpha}2 signaling does not reduce muscle glucose uptake during treadmill exercise in mice**

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