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Publications

***Nampt* controls skeletal muscle development by maintaining Ca^{2+} homeostasis and mitochondrial integrity**

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Myosin content of single muscle fibers following short-term disuse and active recovery in young and old healthy men

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Reduced insulin-mediated citrate synthase activity in cultured skeletal muscle cells from patients with type 2 diabetes: Evidence for an intrinsic oxidative enzyme defect

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Excitability of the T-tubular system in rat skeletal muscle: roles of K⁺ and Na⁺ gradients and Na⁺-K⁺ pump activity

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A novel signalling pathway originating in mitochondria modulates rat skeletal muscle membrane excitability

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Enhanced sarcoplasmic reticulum Ca(2+) release following intermittent sprint training

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Activities

Can aerobic exercise elicit neuroprotective effects in multiple sclerosis?

Martin Langeskov Christensen (Guest lecturer), Lars G. Hvid (Guest lecturer), Mikkel Karl Emil Nygaard (Guest lecturer), Henrik Boye Jensen (Guest lecturer), H.H. Nielsen (Guest lecturer), T. Petersen (Guest lecturer), Niels Ørtenblad (Guest lecturer), Egon Stenager (Guest lecturer), Simon F Eskildsen (Guest lecturer) & Ulrik Dalgas (Guest lecturer)
3. May 2019

Repeated sprint exercise affects contractile apparatus and force production of isolated human muscle fibres.

Niels Ørtenblad (Lecturer)
13. Sep 2014

Role of glycogen in skeletal muscle Ca²⁺ regulation.

Niels Ørtenblad (Lecturer)
23. Aug 2014

Cykeltræning - tips og tricks fra forskerverdenen

Niels Ørtenblad (Lecturer)
22. Jan 2013

European Journal of Applied Physiology (Journal)

Niels Ørtenblad (Peer reviewer)
13. Jul 2012 → 30. Jul 2012

Role of Glycogen in Muscle Function

Niels Ørtenblad (Lecturer)
17. Jun 2012

Americam College of Sports Medicine

Niels Ørtenblad (Organizer)
1. Jun 2012

Role of Glycogen in Skeletal Muscle Function

Niels Ørtenblad (Lecturer)
1. Jun 2012

Americam College of Sports Medicine

Niels Ørtenblad (Organizer)
29. May 2012 → 2. Jun 2012

Fatigue with Prolonged Exercise: Trothetsmekanismer och uthållighet

Niels Ørtenblad (Lecturer)
28. Apr 2012

Carbohydrate and Performance: Kolhydrater och prestation

Niels Ørtenblad (Lecturer)
27. Apr 2012

Role of Muscle Glycogen for Sport Performance

Niels Ørtenblad (Lecturer)
15. Mar 2012

Cykling; præstation og træning

Niels Ørtenblad (Lecturer)
16. Feb 2012

Exercise Physiology

Niels Ørtenblad (Participant)
19. Jan 2012 → 21. Jan 2012

Exercise Physiology

Niels Ørtenblad (Participant)
19. Jan 2012 → 21. Jan 2012

Technology and Biomechanics in Sport, Ramundberget

Niels Ørtenblad (Participant)
17. Jan 2012 → 19. Jan 2012

Muscle and Nerve (Journal)

Niels Ørtenblad (Peer reviewer)
2. Jan 2012 → 12. Feb 2012

Censor: censor på speciale

Niels Ørtenblad (Censor)
19. Dec 2011

Frontiers in Physiology (Journal)

Niels Ørtenblad (Peer reviewer)
15. Dec 2011 → 12. Feb 2012

GLYCOGEN RESYSNTHESIS RATE FOLLOWING CROSS COUNTRY SKIING IS CLOSELY CORRELATED TO SKELETAL MUSCLE CONTENT

Niels Ørtenblad (Lecturer)

1. Dec 2011

Peer reviewer (Journal)

Niels Ørtenblad (Peer reviewer)

10. Nov 2011 → 25. Nov 2011

Skeletal muscle fatigue: role of glycogen availability and subcellular localization within fibre types

Niels Ørtenblad (Lecturer)

10. Nov 2011

Mid Sweden University

Niels Ørtenblad (Visiting researcher)

6. Nov 2011 → 11. Nov 2011

Københavns Universitet (External organisation)

Niels Ørtenblad (Member)

1. Nov 2011 → 30. Nov 2011

Muscle Metabolism and E-C Coupling

Niels Ørtenblad (Guest lecturer)

3. Jun 2011

Seminar: Role of Muscle Glycogen on Skeletal Muscle Function

Niels Ørtenblad (Lecturer)

1. Jun 2011

Inviteret foredrag: Role of Structure on the Skeletal Muscle Function

Niels Ørtenblad (Lecturer)

7. Apr 2011

What I am talking about, When Im talking about Glycogen: The role of glycogen localization on skeletal muscle E-C coupling

Niels Ørtenblad (Lecturer)

28. Mar 2011

The Scientific Research Process

Niels Ørtenblad (Lecturer)

16. Mar 2011

Censor

Niels Ørtenblad (Censor)

1. Mar 2011 → 1. Apr 2011

Department of Physiotherapy, Faculty of Medicine, Nursing and Health Sciences, Victori

Niels Ørtenblad (Visiting researcher)

1. Mar 2011 → 15. Jul 2011

Advanced Exercise Physiology

Niels Ørtenblad (Other)

11. Feb 2011 → 1. Apr 2011

Australian Catholic University
Niels Ørtenblad (Visiting researcher)
28. Jan 2011 → 28. Feb 2011

Aarhus Universitet (External organisation)
Niels Ørtenblad (Member)
15. Jan 2011 → 31. Jan 2011

Peer reviewer (Journal)
Niels Ørtenblad (Peer reviewer)
10. Jan 2011 → 15. Sep 2011

Reviewer (Journal)
Niels Ørtenblad (Peer reviewer)
5. Jan 2011 → 19. Jan 2011

Københavns Universitet (External organisation)
Niels Ørtenblad (Member)
4. Nov 2010 → 3. Dec 2010

Sydafrika (External organisation)
Niels Ørtenblad (Member)
1. Oct 2010 → 1. Nov 2010

Human Performance and Fatigue
Niels Ørtenblad (Censor)
28. Jun 2010 → 19. Jul 2010

Glykogen og præstation
Niels Ørtenblad (Lecturer)
5. Jun 2010

Homage to August Krogh : Celebrating the 90th anniversary of his Nobel prize in physiology and medicine
Niels Ørtenblad (Participant)
1. Jun 2010 → 4. Jun 2010

Københavns Universitet (External organisation)
Niels Ørtenblad (Member)
1. Jun 2010 → 5. Jul 2010

Ministerium (External organisation)
Niels Ørtenblad (Member)
15. May 2010 → 15. Jun 2010

Anaerob Træning: Censor ved kurset Anaerob Træning, Institut for Idræt, KU
Niels Ørtenblad (Censor)
28. Apr 2010 → ...

University of Southern Denmark (External organisation)
Niels Ørtenblad (Member)
21. Apr 2010

Glycogen-protein association in human skeletal muscle; effects of exercise: Opponent på PhD- afhandling af Cand Scient Jace Drain

Niels Ørtenblad (Other)
1. Mar 2010 → 30. Apr 2010

Mid Sweden University

Niels Ørtenblad (Visiting researcher)
19. Jan 2010 → 21. Apr 2010

Muskelfysiologi- og biomekanik seminar : Seminar med deltagere fra Fysiologisk Institut, AU og Institut for Idræt, AU, samt Forskningsen for Muskelfysiologi og Biomekanik, Institut for idræt og Biomekanik, SDU

Niels Ørtenblad (Organizer)
11. Jan 2010 → ...

Journal of Physiology (Journal)

Niels Ørtenblad (Editor)
1. Jan 2010

Betydningen af KATP kanaler for hjerte- og muskelfunktion

Niels Ørtenblad (Lecturer)
28. Aug 2009

The lactate ion protects excitability and force in depolarized muscle fibres by inhibiting chloride conductance.

Niels Ørtenblad (Lecturer)
26. Aug 2009

Publications Abstracts

High-intensity interval training combining biking and rowing markedly improves insulin sensitivity, body composition and VO(2)max in obesity and type 2 diabetes

Petersen, M. H., de Almeida, M. E., Wentorf, E. K., Ortenblad, N. & Hojlund, K., Sep 2020, In: Diabetologia. 63, Suppl. 1, p. S98-S99 195.

The Associations Of Mitochondrial Content And Maximal Oxygen Uptake

Liang, Y., Jensen, R., Geng, G., Qiu, J., Ortenblad, N. & Nielsen, J., 1. Jul 2020, In: Medicine and Science in Sports and Exercise. 52, 7S, p. 156-157

Subcellular localization- and fibre type-dependent utilization of muscle glycogen during heavy resistance training in elite weight lifters

Hokken, R., Laugesen, S., Aagaard, P., Suetta, C., Frandsen, U., Ørtenblad, N. & Nielsen, J., 16. Nov 2019, In: Acta Physiologica (Print). 227, S721

Skeletal muscle sarcoplasmic reticulum Ca₂ uptake preferentially use glycogenolytic derived ATP

Kristiansen, M. R., Jensen, R., Nielsen, J. & Ortenblad, N., Nov 2019, In: Acta Physiologica. 227, S721, p. 77 1 p.

The inhibitory effects of two distinct inhibitors on glycogen phosphorylase activity and contractile function in chemically skinned single fibers

Jensen, R., Nielsen, J., Kristiansen, M. R. & Ortenblad, N., Nov 2019, In: Acta Physiologica. 227, S721, p. 74 1 p.

The time-course of intramuscular lipid droplet utilization at different subcellular localizations and fiber types during endurance exercise in lean males

Kristensen, D., Jensen, R., Plomgaard, P., Ørtenblad, N. & Nielsen, J., Nov 2019, In: Acta Physiologica. 227, S721, p. 14 1 p.

The time-course of muscle glycogen utilization at different subcellular localizations and fiber types during endurance exercise in lean males

Holleufer, M-L., Jensen, R., Skjaerbaek, M., Nykvist Larsen, D., Plomgaard, P., Ørtenblad, N. & Nielsen, J., Nov 2019, In: Acta Physiologica. 227, S721, p. 13 1 p.

Muscle Fibertype Composition Affects Contractile Rate of Force Development (RFD) in vivo

Aagaard, P., Smedegaard, S., Madsen, T. & Ørtenblad, N., Jun 2019, In: Medicine and Science in Sports and Exercise. 51, 6, p. 3200

Vascular endothelial growth factor in skeletal muscle following glycogen-depleting exercise in humans

Jensen, L., Gejl, K. D., Ørtenblad, N. & Frandsen, U., 26. May 2015, In: Medicine and Science in Sports and Exercise. 47, Suppl. 5, p. 448-449

Effects of aging on changes in postural balance with short-term disuse and active reloading

Aagaard, P., Nielsen, J. H., Hvid, L. G., Frandsen, U., Ørtenblad, N., Kjær, M. & Suetta, C., 2015, In: Medicine and Science in Sports and Exercise. 47, 1. Supplement 5S, p. 25 1 p., 155.

Aging impairs the recovery in mechanical muscle function following 4 days of disuse

Hvid, L. G., Suetta, C., Nielsen, J. H., Jensen, M. M., Frandsen, U., Ørtenblad, N., Kjær, M. & Aagaard, P., 2014, In: Medicine and Science in Sports and Exercise. 46, Supplement, p. S453

Myosin content in single muscle fibers from young and old men following disuse and recovery

Hvid, L. G., Brocca, L., Ørtenblad, N., Suetta, C., Aagaard, P., Kjær, M., Bottinelli, R. & Pellegrino, MA., 2012, In: Journal of Muscle Research and Cell Motility. 33, p. 245

Publications other

Intramuscular triglyceride utilization and resynthesis: the effect of acute calorie restriction during recovery in elite male triathletes

Jevons, E., Gejl, K. D., Ørtenblad, N., Strauss, J. & Shepherd, S., 7. May 2019.

Skeletal muscle sarcoplasmic reticulum Ca²⁺ uptake preferentially use glycogenolytic derived ATP

Kristiansen, M. R., Jensen, R., Nielsen, J. & Ørtenblad, N., 2019.

The inhibitory effects of two distinct inhibitors on glycogen phosphorylase activity and contractile function in chemically skinned single fibers

Jensen, R., Kristiansen, M. R., Nielsen, J. & Ørtenblad, N., 2019.

The time-course of intramuscular lipid droplet utilization at different subcellular localizations and fiber types during endurance exercise in lean males

Kristensen, D., Jensen, R., Plomgaard, P., Ørtenblad, N. & Nielsen, J., 2019.

The time-course of muscle glycogen utilization at different subcellular localizations and fiber types during endurance exercise in lean males

Holleufer, M-L., Jensen, R., Skjærbæk, M. C., Nykvist Larsen, D., Plomgaard, P., Ørtenblad, N. & Nielsen, J., 2019.

ACUTE AND CHRONIC EFFECTS OF ENDURANCE TRAINING ON SR CA²⁺ HANDLING IN HIGHLY-TRAINED ENDURANCE ATHLETES

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Effects of 2 weeks of immobilization on strength and neuromuscular activation in young and old healthy men

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Skeletal muscle glycogen localisation - fibre type dependency and interfibre heterogeneity

Nielsen, J., Schrøder, H. D. & Ørtenblad, N., 2007, *Proceedings. 12th Annual Congress of the European College of Sport Science*. European College of Sports Science, p. 172

Teaching Portfolio

1. Formal educational education

- “Adjunktpædagogikum”, SDU, 2004-05.
- Pedagogic and didactic course during Sport Science Studies, including “practical pedagogic course.”

2. Educational administration tasks

- Member of the Study board for the “Sports and Health” studies, IOB-SDU, January 2005 through end of 2009.
- Shorter periods head of studies.
- In the study board period we planned, organized and implemented a new curriculum for the bachelor level of the sports science program a number of times and curriculum for the master studies.

3. Experience with teaching, guidance and exam

- Teaching and being responsible for a number of courses within physiology and health, at “Sport and Health” and “Medicine” at SDU, and at La Trobe university, Melbourne.
- Supervisor for a number of successful and current PhD-students.
- Supervisor for Master, and bachelor students as well as post docs.
- Assigned as censor/examiner for “censor board for sports science”, the “censor board for biology” and the “censor board for health sciences” and function herein as censor at University of Copenhagen, Aarhus University and Aalborg University.

4. Methods, materials and tools

- Lectures, classes, practical exercises, case based education, laboratory courses and supervision.

5. Educational development and university pedagogical tasks

- I have been in the research board for the inter-university PhD-program for sport studies (AU, KU and SDU), PhD-program “Research Education Program for Sport (REPS)” with the board being the driving and administrative source for the PhD-

course at REPS.

- I have been in the committee developing a introducing course for professions-bachelors starting at the master level at the Faculty of Health Science, SDU.