

# Jacob J. Christensen

PHD, POSTDOCTORAL RESEARCHER

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- I am a clinical dietitian and postdoctoral researcher at Oslo University Hospital and University of Oslo.
- My research interests include cardiovascular diseases, lipid metabolism, nutrition, genomics and data science.

## Education and authorization

### Oslo University Hospital and University of Oslo

POST-DOCTORAL RESEARCHER

Oslo, Norway

2018 - Present

- Statin use in pregnancy, nutrition data science.

### Oslo University Hospital and University of Oslo

Oslo, Norway

DOCTORAL DEGREE (PHD)

2014 - 2017

- Supervisors: Prof. Kirsten B. Holven (main supervisor), PhD, Prof. Kjetil Retterstøl, MD, PhD, and Prof. Leiv Ose, MD, PhD. Title of doctoral thesis: Early life cholesterol exposure in children with familial hypercholesterolemia and healthy children (approved 30.05.2017, defended 21.08.2017).

### Norwegian Directorate of Health, Registration Authority for Health Personnel (SAFH)

Oslo, Norway

AUTHORIZATION

2013 - 2061

- Authorized Clinical Dietitian (License: 6182046).

### University of Oslo

Oslo, Norway

MASTER THESIS

2012 - 2013

- Supervisors: Christian A. Drevon (main supervisor) and Anders Kielland. Title of master thesis: Differentiation of skeletal muscle cells in culture – Experimental conditions and expression of myokines.

### University of Oslo

Oslo, Norway

MASTER OF CLINICAL NUTRITION

2011 - 2013

### University of Oslo and University of Stellenbosch

Oslo, Norway, and Cape Town,

South Africa

BACHELOR OF SCIENCE

2008 - 2011

## Work experience

### Jean Mayer United States Department of Agriculture (USDA) Human Nutrition Research Center on Aging (HNRCA), Tufts University

Boston Massachusetts, USA

POSTDOCTORAL RESEARCHER

2018 - 2019

- Postdoctoral fellowship in the group of José Ordovás, working with various research projects in the intersection of nutrition, genomics and cardio-metabolic diseases.

### Oslo University Hospital and University of Oslo

Oslo, Norway

POSTDOCTORAL RESEARCHER

2018 - Present

- Statin use in pregnancy, nutrition data science.

### Department of Nutrition, Institute of Basic Medical Sciences, University of Oslo

Oslo, Norway

RESEARCHER

2017 - 2018

- Data analysis-centered research projects.

### University of Oslo

Oslo, Norway

UNIVERSITY LECTURER

2016

- Clinical communication skills, teaching for under-graduate students.

### Oslo University Hospital and University of Oslo

Oslo, Norway

DOCTORAL DEGREE (PHD)

2014 - 2017

- See Education and authorization.

### Oslo and Akershus University College and University of Oslo

Oslo, Norway

UNIVERSITY COLLEGE LECTURER/PROJECT COORDINATOR

2013 - 2014

- Coordination and implementation of practical aspects of a clinical nutrition research study.

- Answering questions related to clinical dietetics, nutrition, physical activity and health.

**Student Welfare Organization in Oslo (SiO)**

- Weekly dietary counseling sessions for healthy subjects, as well as lectures about general nutrition topics.

## Presentations

**INVITED SPEAKER****POSTER PRESENTATIONS**

## Publications

1. Christensen, JJ, SM Ulven, M Thoresen, K Westerman, KB Holven, and LF Andersen (Jan. 2020). Associations between Dietary Patterns and Gene Expression Pattern in Peripheral Blood Mononuclear Cells: A Cross-Sectional Study (Preprint). *medRxiv*.
2. Arnesen, E, JJ Christensen, R Andersen, H Eneroth, M Erkkola, A Høyer, EW Lemming, HM Meltzer, ÞI Þórhallsson, I Þórsdóttir, U Schwab, and R Blomhoff (2020). The Nordic Nutrition Recommendations 2022 – Handbook for Systematic Reviews. *Food & Nutrition Research*.
3. Arnesen, E, JJ Christensen, R Andersen, H Eneroth, M Erkkola, A Høyer, EW Lemming, HM Meltzer, ÞI Þórhallsson, I Þórsdóttir, U Schwab, and R Blomhoff (2020). The Nordic Nutrition Recommendations 2022 – Structure and Rationale of Systematic Reviews. *Food & Nutrition Research*.
4. Christensen, JJ, Arnesen, R Andersen, H Eneroth, M Erkkola, EW Lemming, HM Meltzer, ÞI Þórhallsson, I Þórsdóttir, U Schwab, and R Blomhoff (2020). The Nordic Nutrition Recommendations 2022 – Principles and Methodology (Unpublished). *Food & Nutrition Research*. (Unpublished).
5. Narverud, I, JJ Christensen, SS Bakke, SM Ulven, A Rundblad, P Aukrust, T Espevik, MP Bogsrud, K Retterstøl, T Ueland, B Halvorsen, and KB Holven (Nov. 12, 2019). Profiling of Immune-Related Gene Expression in Children with Familial Hypercholesterolaemia. *Journal of Internal Medicine*, joim.13001. (Visited on 12/19/2019).
6. Mangano, KM, SE Noel, CQ Lai, JJ Christensen, JM Ordovás, B Dawson-Hughes, KL Tucker, and LD Parnell (Aug. 2019). Diet-Derived Fruit and Vegetable Metabolites Suggest Sex-Specific Mechanisms Conferring Protection against Osteoporosis in Humans (Preprint). *medRxiv*.
7. Ulven, SM, JJ Christensen, O Nygård, A Svardal, L Leder, I Ottestad, V Lysne, J Laupsa-Borge, PM Ueland, Ø Midttun, K Meyer, A McCann, LF Andersen, and KB Holven (May 1, 2019). Using Metabolic Profiling and Gene Expression Analyses to Explore Molecular Effects of Replacing Saturated Fat with Polyunsaturated Fat-a Randomized Controlled Dietary Intervention Study. *The American Journal of Clinical Nutrition* **109**(5), 1239–1250. pmid: 31051508.
8. Christensen, JJ, SS Bakke, SM Ulven, K Retterstøl, T Henriksen, J Bollerslev, T Espevik, P Aukrust, B Halvorsen, and KB Holven (Feb. 11, 2019). Serum Omega-6 Fatty Acids and Immunology-Related Gene Expression in Peripheral Blood Mononuclear Cells: A Cross-Sectional Analysis in Healthy Children. *Molecular Nutrition & Food Research*, 1800990. (Visited on 02/11/2019).
9. Christensen, JJ, SM Ulven, K Retterstøl, I Narverud, MP Bogsrud, T Henriksen, J Bollerslev, B Halvorsen, P Aukrust, and KB Holven (Nov. 2017). Comprehensive Lipid and Metabolite Profiling of Children with and without Familial Hypercholesterolemia: A Cross-Sectional Study. *Atherosclerosis* **266**, 48–57. pmid: 28963918.
10. Narverud, I, JJ Christensen, IO Ottestad, SM Ulven, and KB Holven (Oct. 31, 2017). [Misleading about diet in a new national guideline for the prevention of cardiovascular disease]. *Tidsskrift for Den Norske Lægeforening: Tidsskrift for Praktisk Medicin, Ny Raekke* **137**(20). pmid: 29094560.
11. Gjevestad, GO, H Hamarsland, T Raastad, I Ottestad, JJ Christensen, K Eckardt, CA Drevon, AS Biong, SM Ulven, and KB Holven (Mar. 3, 2017). Gene Expression Is Differentially Regulated in Skeletal Muscle and Circulating Immune Cells in Response to an Acute Bout of High-Load Strength Exercise. *Genes & Nutrition* **12**(1), 8. (Visited on 02/04/2019).
12. Christensen, JJ, L Osnes, B Halvorsen, K Retterstøl, MP Bogsrud, C Wium, A Svilaas, I Narverud, SM Ulven, P Aukrust, and KB Holven (Feb. 2017). Data on Circulating Leukocyte Subpopulations and Inflammatory Proteins in Children with Familial Hypercholesterolemia and Healthy Children. *Data in Brief* **10**, 587–592. pmid: 28070551.
13. Christensen, JJ, LT Osnes, B Halvorsen, K Retterstøl, MP Bogsrud, C Wium, A Svilaas, I Narverud, SM Ulven, P Aukrust, and KB Holven (Jan. 2017). Altered Leukocyte Distribution under Hypercholesterolemia: A Cross-Sectional Study in Children with Familial Hypercholesterolemia. *Atherosclerosis* **256**, 67–74. pmid: 28024183.
14. Telle-Hansen, VH, JJ Christensen, SM Ulven, and KB Holven (2017). Does Dietary Fat Affect Inflammatory Markers in Overweight and Obese Individuals?-A Review of Randomized Controlled Trials from 2010 to 2016. *Genes & Nutrition* **12**, 26. pmid: 29043006.

15. Christensen, JJ, K Retterstøl, K Godang, MCP Roland, E Qvigstad, J Bollerslev, T Ueland, T Henriksen, and KB Holven (Nov. 2016). LDL Cholesterol in Early Pregnancy and Offspring Cardiovascular Disease Risk Factors. *Journal of Clinical Lipidology* **10**(6), 1369–1378.e7. pmid: 27919354.
16. Ulven, SM, L Leder, E Elind, I Ottestad, JJ Christensen, VH Telle-Hansen, AJ Skjetne, E Raael, NA Sheikh, M Holck, K Torvik, A Lamglait, K Thyholt, MG Byfuglien, L Granlund, LF Andersen, and KB Holven (Oct. 2016). Exchanging a Few Commercial, Regularly Consumed Food Items with Improved Fat Quality Reduces Total Cholesterol and LDL-Cholesterol: A Double-Blind, Randomised Controlled Trial. *The British journal of nutrition* **116**(8), 1383–1393. pmid: 27737722.
17. Narverud, I, JR van Lennep, JJ Christensen, J Versmissen, JM Gran, PO Iversen, P Aukrust, B Halvorsen, T Ueland, SM Ulven, L Ose, MB Veierød, E Sijbrands, K Retterstøl, and KB Holven (Nov. 2015). Maternal Inheritance Does Not Predict Cholesterol Levels in Children with Familial Hypercholesterolemia. *Atherosclerosis* **243**(1), 155–60. pmid: 26386212.