



Vegard Lysne

CLINICAL DIETITIAN, PhD

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Professional summary

I'm a clinical dietitian, currently employed as a postdoctoral researcher at Haukeland University Hospital. In my PhD project, conducted at University of Bergen, I used targeted metabolomics to explore the regulation of one-carbon metabolism and B-vitamin status. The project included experimental studies in animals and epidemiological studies in humans. My main professional interests are methods in nutritional epidemiology and statistics, including programming in the R language. In 2019 I was leader of the organizing committee for the annual conference of the Norwegian Association of Clinical Dietitians.

Education

PhD

DEPARTMENT OF CLINICAL SCIENCE, UNIVERSITY OF BERGEN

2015-2019

- Thesis title: Biomarkers of one-carbon metabolism and B-vitamin status - Targeted metabolomics in rats and humans exploring the effects of PPAR alpha-activation and dietary composition

MSc, Clinical Nutrition

UNIVERSITY OF BERGEN, FACULTY OF MEDICINE

2012-2014

- Thesis title: Treatment with a Peroxisome Proliferator-Activated Receptor agonist influences one-carbon metabolism and markers of B-vitamin status in rats

BSc, Human Nutrition

UNIVERSITY OF BERGEN, FACULTY OF MEDICINE

2009-2012

Work experience

Postdoctoral researcher

DEPARTMENT OF HEART DISEASE, HAUKELAND UNIVERSITY HOSPITAL, BERGEN, NORWAY

2020-

Researcher

DEPARTMENT OF CLINICAL SCIENCE, UNIVERSITY OF BERGEN, BERGEN, NORWAY

2019

PhD candidate

DEPARTMENT OF CLINICAL SCIENCE, UNIVERSITY OF BERGEN, BERGEN, NORWAY

2015-2019

Research assistant

DEPARTMENT OF HEART DISEASE, HAUKELAND UNIVERSITY HOSPITAL, BERGEN, NORWAY

2014-2015

Courses attended

2019 Building Tidy Tools, RStudio::conf workshop
2018 Data Science in the Tidyverse, RStudio::conf workshop
2017 Competing Risks, Introduction to Flexible Parametric Survival Analysis and Cancer Screening, EPINOR annual meeting
2017 New statistical methods for causal inference, University of Oslo
2017 Logistic regression, survival analysis and Cox-regression, University of Oslo
2017 The Art of Scientific Investigation, EPINOR summer school
2017 University pedagogy for PhD candidates, University of Bergen
2017 Epidemiology - beyond the basics, University of Oslo
2016 6th International course in Nutritional Epidemiology, Imperial College, London
2016 Experimental Design and Statistical Analysis, FRAME training school
2016 Basic course in Medical and Health Related Research, University of Bergen

Publications in international peer-reviewed scientific journals

1. **Lysne V**, Bjørndal B, Grinna ML, Midttun Ø, Ueland PM, Berge RK, Dierkes J, Nygård O and Strand E. Short-term treatment with a peroxisome proliferator-activated receptor α agonist influences plasma one-carbon metabolites and B-vitamin status in rats. *PLoS One*, 2019. PMID: 31805132
2. Parys AV, **Lysne V**, Svingen GFT, Ueland PM, Dhar I, Øyen J, Dierkes J and Nygård O. Dietary choline is related to increased risk of acute myocardial infarction in patients with stable angina pectoris. *Biochimie*, 2019. PMID: 31707100
3. Olsen T, Vinknes KJ, Blomhoff R, **Lysne V**, Midttun Ø, Dhar I, Ueland PM, Svingen GFT, Pedersen ER, Drevon CA, Refsum H, Nygård O. Creatinine, total cysteine and uric acid are associated with serum retinol in patients with cardiovascular disease. *Eur J Nutr*, 2019. PMID: 31502058
4. Strand E, **Lysne V**, Grinna ML, Bohov P, Svardal A, Nygård O, Berge RK, Bjørndal B. Short-Term Activation of Peroxisome Proliferator-Activated Receptors alpha and gamma Induces Tissue-Specific Effects on Lipid Metabolism and Fatty Acid Composition in Male Wistar Rats. *PPAR res*, 2019. PMID: 31308847
5. Ulven SM, Christensen JJ, Nygård O, Svardal A, Leder L, Ottestad I, **Lysne V**, Laupsa-Borge J, Ueland PM, Midttun Ø, Meyer K, McCann A, Andersen LF, Holven KB. Using metabolic profiling and gene expression analyses to explore molecular effects of replacing saturated fat with polyunsaturated fat-a randomized controlled dietary intervention study. *Am J Clin Nutr*, 2019. PMID: 31051508
6. Dhar I, **Lysne V**, Svingen GFT, Ueland PM, Gregory JF, Bønna KH, Nygård OK. Elevated plasma cystathionine is associated with increased risk of mortality among patients with suspected or established coronary heart disease. *Am J Clin Nutr*, 2019. PMID: 31005968
7. Ptaschitz NG, Assmus J, Strand E, Karlsson T, Vinknes KJ, **Lysne V**, Drevon CA, Tell GS, Dierkes J, Nygård O. Adherence to the Healthy Nordic Food Index and the incidence of acute myocardial infarction and mortality among patients with stable angina pectoris. *J Hum Nutr Diet*, 2019. PMID: 30091209
8. Dhar I, Svingen GFT, Ueland PM, **Lysne V**, Svenningsson MM, Tell GS, Nygård OK. Plasma Cystathionine and Risk of Incident Stroke in Patients With Suspected Stable Angina Pectoris. *J Am Heart Assoc*, 2018. PMID: 30371177
9. Bjørndal B, Bruheim I, Lysne V, Ramsvik MS, Ueland PM, Nordrehaug JE, Nygård OK, Berge RK. Plasma choline, homocysteine and vitamin status in healthy adults supplemented with krill oil: a pilot study. *Scand J Clin Lab Invest*, 2018. PMID: 30261756
10. Dhar I, Lysne V, Seifert R, Svingen GFT, Ueland PM, Nygård OK. Plasma methionine and risk of acute myocardial infarction: Effect modification by established risk factors. *Atherosclerosis*, 2018. PMID: 29621698
11. Strauss P, Marti HP, Beisland C, Scherer A, **Lysne V**, Leh S, Flatberg A, Koch E, Beisvag V, Landolt L, Skogstrand T, Eikrem ØS. Expanding the Utilization of Formalin-Fixed, Paraffin-Embedded Archives: Feasibility of miR-Seq for Disease Exploration and Biomarker Development from Biopsies with Clear Cell Renal Cell Carcinoma. *Int J Mol Sci*, 2018. PMID: 29534467
12. Strand E, Rebnord EW, Flygel MR, **Lysne V**, Svingen GFT, Tell GS, Løland KH, Berge RK, Svardal A, Nygård O, Pedersen ER. Serum Carnitine Metabolites and Incident Type 2 Diabetes Mellitus in Patients With Suspected Stable Angina Pectoris. *J Clin Endocrinol Metab*, 2018. PMID: 29325058
13. DeRatt BN, Ralat MA, **Lysne V**, Tayyari F, Dhar I, Edison AS, Garrett TJ, Midttun Ø, Ueland PM, Nygård OK, Gregory JF 3rd. Metabolomic Evaluation of the Consequences of Plasma Cystathionine Elevation in Adults with Stable Angina Pectoris. *J Nutr*, 2017. PMID: 28794210
14. Hannibal L, **Lysne V**, Bjørke-Monsen AL, Behringer S, Grünert SC, Spiekerkoetter U, Jacobsen DW, Blom HJ. Biomarkers and Algorithms for the Diagnosis of Vitamin B12 Deficiency. *Front Mol Biosci*, 2016. PMID: 27446930
15. **Lysne V**, Strand E, Svingen GF, Bjørndal B, Pedersen ER, Midttun Ø, Olsen T, Ueland PM, Berge RK, Nygård O. Peroxisome Proliferator-Activated Receptor Activation is Associated with Altered Plasma One-Carbon Metabolites and B-Vitamin Status in Rats. *Nutrients*, 2016. PMID: 26742069
16. **Lysne V**, Bjørndal B, Vik R, Nordrehaug JE, Skorve J, Nygård O, Berge RK. A Protein Extract from Chicken Reduces Plasma Homocysteine in Rats. *Nutrients*, 2015. PMID: 26053618
17. Øyen J, Svingen GF, Gjesdal CG, Tell GS, Ueland PM, **Lysne V**, Apalset EM, Meyer K, Vollset SE, Nygård OK. Plasma dimethylglycine, nicotine exposure and risk of low bone mineral density and hip fracture: the Hordaland Health Study. *Osteoporos Int*, 2015. PMID: 25616506

Other publications

1. Matre ÅO, **Lysne V**. B12-tilskudd uten B12-mangel. *Norsk Tidsskrift for Ernæring*, 2019(3).
2. **Lysne V**. 12. Internasjonale konferanse om enkarbonmetabolisme, B-vitaminer og homocystein. *Norsk Tidsskrift*

for Ernæring, 2019(3).

3. **Lysne V**, Marienborg I, Olsen T. FASEB-konferanse om folat, vitamin B12 og enkarbonmetabolisme. Norsk Tidsskrift for Ernæring, 2018(3).
4. **Lysne V**, Olsen T. Feilkilder i ernæringsepidemiologi. Norsk Tidsskrift for Ernæring, 2018(2).
5. **Lysne V**. Glimt fra den 11. internasjonale konferansen om homocystein og enkarbonmetabolisme i Århus. Norsk tidsskrift for Ernæring, 2017(3).
6. **Lysne V**, Olsen T. Konfidensintervaller – hva kan de fortelle deg? Norsk Tidsskrift for Ernæring, 2017(1)
7. **Lysne V**, Olsen T. P-verdier. Veiledende eller villedende? En simulert studie. Norsk Tidsskrift for Ernæring, 2016(4).
8. Christensen JJ, **Lysne V**. Støtter lørdagsgodt. Den Norske Tannlegeforenings Tidende, 2016(5).
9. Olsen T, **Lysne V**. Ta faget tilbake. Norsk Tidsskrift for Ernæring, 2015(3).
10. Kverneland M, Christensen JJ, **Lysne V**. Lavkarbodietter har kommet for å bli, men hører hjemme i klinikken. Norsk Tidsskrift for Ernæring, 2015(2).

Conference attendance

2019	The European Nutrition Conference (FENS), Dublin, Ireland	Poster presentation
2019	12th International Conference on homocysteine and one-carbon metabolism, Tarragona, Spain	Poster presentation
2019	RStudio::conf2019, Austin, TX, USA	
2019	The conference of the Norwegian Association of Clinical Dietitians (KEFF), Bergen, Norway	
2018	FASEB Science research conference: Folic Acid, Vitamin B12 and One Carbon Metabolism, Halifax, Nova Scotia, Canada	Poster presentation
2018	RStudio::conf, San Diego, CA, USA	
2018	The conference of the Norwegian Association of Clinical Dietitians (KEFF), Kristiansand, Norway	
2017	11th International Conference on homocysteine and one-carbon metabolism, Aarhus, Denmark	Poster presentation
2017	Norwegian Society for Epidemiology conference, Tromsø, Norway	
2017	The conference of the Norwegian Association of Clinical Dietitians (KEFF), Oslo, Norway	Oral presentation
2016	Nordic Nutrition Conference, Gotenburg, Sweden	
2016	FASEB Science research conference: Folic Acid, Vitamin B12 and One Carbon Metabolism, Steamboat Springs, CO, USA	Oral presentation
2015	10th International Conference on homocysteine and one-carbon metabolism, Nancy, France	Oral presentation
2015	The conference of the Norwegian Association of Clinical Dietitians (KEFF), Oslo, Norway	
2014	FASEB Science research conference: Folic Acid, Vitamin B12 and One Carbon Metabolism, Steamboat Springs, CO, USA	Poster presentation
2014	Nordic Congress for Dietitians, Bergen, Norway	
2013	9th International Conference on homocysteine and one-carbon metabolism, Dublin, Ireland	Poster presentation
2013	The conference of the Norwegian Association of Clinical Dietitians (KEFF), Oslo, Norway	
2012	The conference of the Norwegian Association of Clinical Dietitians (KEFF), Oslo, Norway	

Teaching experience

During my years as PhD candidate I have taught at every semester of the bachelor and masters program in clinical nutrition at University of Bergen. I've held lectures on topics such as methods in nutrition research, nutritional biochemistry, food science, micronutrients, genetic disorders in nutrient metabolism and general nutrition in health and disease.

Student supervision

2018	Ingvild Marienborg	MSc thesis
2018	Åslaug O. Matre and Henriette Holm	BSc theses
2017	Jostein Sæle, Marcela Palma and Kristine S. Samuelsen	MSc theses
2016	Turid Bjørnsen Iversen	BSc thesis
2015	Jostein Sæle, Helene Dahl, Caroline K. Jacobsen and Silje S. Vabø	BSc theses

Thesis committees

2018	Eirin S Gjerde and Emilie H Markhus	<i>BSc theses</i>
2017	Trine Larsen, Helene Søiland and Miriam H Brandt	<i>MSc theses</i>
2017	Amalie Moxness, Maria-Anna F Holmefjord and Benedicte Wirkola	<i>BSc theses</i>
2016	Tonje N Hustoft and Anita E Smette	<i>MSc theses</i>
2016	Synnøve Næss, Ingrid Revheim, Charlotte Z Tøssebro and Renate D Laumann	<i>BSc theses</i>
2015	Anette Hetlevik and Maria B Songve	<i>BSc theses</i>

Organizations and committees

- 2019 Leader of the Organizing committee of the annual conference of The Norwegian Association of Dietitians
- 2018- Member of the editorial board, Norwegian Journal of Nutrition (NTFE)
- 2015-2018 Member of the academic policy board, The Norwegian Association of Dietitians affiliated with The Norwegian Association of Researchers

Skills and languages

R/Rstudio	Statistical programming	<i>Experienced</i>
SPSS	Statistical software	<i>Experienced</i>
STATA	Statistical software	<i>Basic knowledge</i>
Microsoft Office	Word, Excel, Powerpoint, Outlook	<i>Experienced</i>
Inkscape	Vector graphics	<i>Intermediate</i>
Git/GitHub	Version control	<i>Basic</i>
Norwegian	Written and oral	<i>First language</i>
English	Written and oral	<i>Fluent</i>

References

Jutta Dierkes

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Ottar Nygård

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