



# Vegard Lysne

CLINICAL DIETITIAN, PhD

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## Professional summary

I'm a clinical dietitian, currently employed as a researcher at Centre for Nutrition, University of Bergen. In my PhD project 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

### Researcher

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

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

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1. 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

1. 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. 1. Strand E, **Lysne V**, Grinna ML, Bohov P, Svandal 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

1. Ulven SM, Christensen JJ, Nygård O, Svandal 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

1. Dhar I, **Lysne V**, Svingen GFT, Ueland PM, Gregory JF, Bønaa 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

1. Puaschitz 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

1. 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

1. 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

1. 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

1. 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

1. Strand E, Rebnord EW, Flygel MR, **Lysne V**, Svingen GFT, Tell GS, Løland KH, Berge RK, Svandal 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

1. 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

1. 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

1. **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

1. **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

1. 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

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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

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2019	The European Nutrition Conference (FENS), Dublin, Ireland	<i>Poster presentation</i>
2019	12th International Conference on homocysteine and one-carbon metabolism, Tarragona, Spain	<i>Poster presentation</i>
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	<i>Poster presentation</i>
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	<i>Poster presentation</i>
2017	Norwegian Society for Epidemiology conference, Tromsø, Norway	
2017	The conference of the Norwegian Association of Clinical Dietitians (KEFF), Oslo, Norway	<i>Oral presentation</i>
2016	Nordic Nutrition Conference, Gotenburg, Sweden	
2016	FASEB Science research conference: Folic Acid, Vitamin B12 and One Carbon Metabolism, Steamboat Springs, CO, USA	<i>Oral presentation</i>
2015	10th International Conference on homocysteine and one-carbon metabolism, Nancy, France	<i>Oral presentation</i>
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	<i>Poster presentation</i>
2014	Nordic Congress for Dietitians, Bergen, Norway	
2013	9th International Conference on homocysteine and one-carbon metabolism, Dublin, Ireland	<i>Poster presentation</i>
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

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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

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

## Thesis committees

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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

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- 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

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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

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