

RD Dr. Kathryn J Burton

List of publications and conference communications (March 2020)

Publications

10. **Burton KJ**, Krüger R, Scherz V, Münger LH, Picone G, Vionnet N, Bertelli C, Greub G, Capozzi F, Vergères G. Trimethylamine-*N*-Oxide Postprandial Response in Plasma and Urine Is Lower After Fermented Compared to Non-Fermented Dairy Consumption in Healthy Adults. *Nutrients*. 2020. 16 ; 12 (1) : E234.
9. Vionnet V, Münger LH, Freiburghaus C, **Burton KJ**, Pimentel G, Pralong FP, Badertscher R, Vergères G. Assessment of lactase activity in humans by measurement of galactitol and galactonate in serum and urine after milk intake. *A J Nutr*. *In Press*.
8. Pimentel G, **Burton KJ**, von Ah U, Bütikofer U, Pralong FP, Vionnet N, Portmann R, Vergères G. Metabolic footprinting of fermented milk consumption in serum of healthy men. *J Nutr*. 2018; 148: 851-860.
7. **Burton KJ**, Pimentel G, Zangger N, Vionnet N, Pralong FP, Delorenzi M, Vergères G. Modulation of the peripheral blood transcriptome by the ingestion of yoghurt and acidified milk in healthy, young men. *PlosOne*. 2018; 13(2): e0192947.
6. Pimentel G, **Burton KJ**, Vergères G, Dupont D. The role of Foodomics to understand the digestion/bioactivity relationship of food. *Curr Opin Food Sci*. 2018; 22:67-73.
5. Münger L, Trimigno A, Picone G, Freiburghaus C, Pimentel G, **Burton KJ**, Pralong F, Vionnet N, Capozzi F, Badertscher R, Vergères, G. Identification of urinary food intake biomarkers for milk, cheese and soy-based drink by untargeted GC-MS and NMR in healthy humans". *J Prot Res*. 2017; 16: 3321-3335.
4. Pimentel G, **Burton KJ**, Freiburghaus C, von Ah U, Münger L, Pralong FP, Vionnet N, Badertscher R, Vergères G. Blood lactose after dairy product intake in healthy men. *Br J Nutr*. 2017; 118:1070-1077.
3. Pimentel G, **Burton KJ**, Pralong FP, Vionnet N, Portmann R, Vergères G. The postprandial metabolome – a source of Nutritional Biomarkers of Health. *Curr Opin Food Sci*. 2017; 16: 67-73.
2. **Burton KJ**, Rosikiewicz M, Pimentel G, Bütikofer U, von Ah U, Voirol MJ, Croxatto A, Aeby S, Draï J, McTernan PG, Greub G, Pralong FP, Vergères G, Vionnet N. Probiotic yoghurt and acidified milk similarly reduce postprandial inflammation and both alter the gut microbiota of healthy young men. *Br J Nutr*. 2017; 117:1312- 1322.
1. van Leckwyck M, Kong W, **Burton KJ**, Amati F, Vionnet N, Pralong FP. 2016. Decreasing Insulin Sensitivity in Women Induces Alterations in LH Pulsatility. *J Clin Endocrinol Metab*. Aug;101(8):3240-3249.

Short communications/ invited reviews

1. **Burton KJ**. 2018. Lactose digestion and the implications on the gut microbiota. *Pipettes*.6: 10-11.

Conference communications 2014- March 2020

15. Kim J, **Burton KJ**, Scherz V, Dardvet D, Marmonier C, David J, Stoffers H, Bertelli C, Greub G, Pierzo C, Vergères G, Polakof S. Evaluating the impact of exclusion and reintroduction of fermented and non-fermented dairy products on the faecal microbiota of young compared to older healthy men. 6th Nutrition Winter School. Diet & Microbes: Gut health for the brain and body. Levi, Lapland. 27-31st January 2020. Poster communication.
14. Li KJ, Brouwer-Brolsma EM, Vergères G, Feskens EJM, **Burton KJ**. Associating Markers of Intake of Fermented Foods with Cardiometabolic Factors in a Real-Life Observational Cohort:

- The *Cardioferment* Project. Cardiovascular Systems Medicine Summer School. From disease to p-values and back to the patient. Hamburg, Germany. 1-5th April 2019. Poster presentation. Grant awarded for conference expenses.
13. **Burton KJ**, Pimentel G, Münger LH, Zangger N, Portmann R, Delorenzi M, Pralong FP, Vionnet N, Ibberson M, Vergères G. Network-based strategies to associate changes in postprandial gene expression in whole blood with circulating biomarkers. 15th NuGO Week- Mitochondria, Nutrition and Health. Newcastle, UK. 3-6th September 2018. Oral communication.
 12. **Burton KJ**, Krüger R, Rosikiewicz M, Pimentel G, Croxatto A, Aeby S, Pralong FP, Greub G, Vionnet N, Vergères G. Different postprandial responses in circulating levels of trimethylamine-N-oxide after dairy intake and the role of the gut microbiota. 5th Nutrition Winter School. Breaking barriers: Gut, brain, bugs- and beyond. Levi, Lapland. 22-26th January 2018. *Oral communication*. Awarded NuGO grant for conferences expenses.
 11. **Burton KJ**, Pimentel G, Münger L, Zangger N, Portmann R, Delorenzi M, Pralong FP, Vionnet N, Vergères G. From metabolites to gene expression: fusing the postprandial response to dairy intake. 5th International Conference on Foodomics. Foodomics 2018: from Data to Knowledge. Cesena, Italy. 10-12th January 2018. *Oral communication*.
 10. **Burton KJ**. 4th International JPI HDHL Conference- selected young speaker for the FoodBALL project. Brussels, Belgium. 1st December 2017. *Oral communication*.
 9. **Burton KJ**, Pimentel G, Zangger N, Münger L, Portmann R, Badertscher R, Delorenzi M, Pralong FP, Vionnet N, Vergères G. Postprandial human studies- a key analytical strategy to link food and nutritional sciences. 14th NuGO Week- Molecular nutrition- understanding how food influences health. Varna, Bulgaria. 28-31st August 2017. Abstract published in book of abstracts. Scripta Scientifica Pharmaceutica. 4, sup 1:63-64. *Poster presentation*. Awarded poster 1st prize.
 8. **Burton KJ**, Pimentel G, Zangger N, Butikofer U, Delorenzi M, Pralong FP, Vionnet N, Vergères G. Whole blood transcriptome changes in response to the intake of fermented and non-fermented dairy products. Annual meeting of the SSED. 17th-18th November 2016. Bern, Switzerland. *Poster presentation*.
 7. Pimentel, G., **Burton, K.J.**, Zangger, N., Butikofer, U., Portmann, R., Badertscher, R., Voirol, M.J., Delorenzi, M., Pralong, F.P., Vionnet, N., Vergères, G. A multi-omics approach to identify biomarkers of fermented and non-fermented dairy product intake. 13th NuGO Week- Phenotypes and Prevention. Copenhagen, Denmark. 5th- 8th September 2016. Abstract published in book of abstracts (p24), available at: <http://www.nugo.org/wp-content/uploads/2016/08/NUGO-2016-Book-of-Abstracts.pdf>. *Oral communication*.
 6. **Burton, K.J.**, Rosikiewicz, M., Pimentel, G., Butikofer, U., Von Ah, U., Egger, C., Voirol, M.J., Aeby, S., Greub, G., Pralong, F.P., Vergères, G., Vionnet, N. Dairy probiotic or prebiotic intake reduces postprandial inflammation and modulates gut microbiota. 13th NuGO Week- Phenotypes and Prevention. Copenhagen, Denmark. 5th- 8th September 2016. Abstract published in book of abstracts (p53), available at: <http://www.nugo.org/wp-content/uploads/2016/08/NUGO-2016-Book-of-Abstracts.pdf>. *Poster presentation*.
 5. **Burton KJ**, Pimentel G, Rosikiewicz M, Butikofer, U, Von Ah U, Voirol MJ, Aeby S, Greub G, Pralong FP, Vergères, G, Vionnet N. Two-Week Intake of Dairy Probiotic or Prebiotic Suppresses the Postprandial Inflammatory Response Associated with a High-Fat Meal. American Diabetes Association (ADA) 76th Scientific sessions. New Orleans, USA. 10th- 14th June 2016. Abstract 766P, available at: http://app.core-apps.com/tristar_ada16/abstract/92b0eac0f984437a5bebc08c57b707de. *Poster presentation*, available at: <https://ada.scientificposters.com/epsAbstractADA.cfm?id=1>
 4. **Burton KJ**, Pimentel G, Butikofer U, von Ah U, Voirol MJ, Aeby S, Lombardo C, G Greub, Pralong FP, Vergères G, Vionnet N. Impact of probiotic yoghurt consumption on inflammatory biomarkers and microbiota composition in healthy young men. Annual Meeting of the Swiss Society of Endocrinology and Diabetology (SSED). Bern, Switzerland. 12th-13th November 2015. *Oral communication*.
 3. **Burton KJ**, Pimentel G, Badertscher R, Portmann R, Von Ah U, Voirol MJ, Bütikofer U, Pralong FP, Vergères G, Vionnet N. Evaluation of responses to a probiotic yoghurt in healthy men using a nutrodynamic approach. LIMNA workshop: Journée Scientifique G2L2. Lausanne, Switzerland. 16th June 2015. *Poster presentation*.
 2. **Burton KJ**, Pimentel G, Badertscher R, Portmann R, von Ah U, Bisig W, Buetikofer U, Voirol MJ, Pralong FP, Vergères G, Vionnet N. A nutrodynamic study of the metabolic responses to probiotic yoghurt in healthy men: A pilot study. Third Lausanne Integrative Metabolism & Nutrition Alliance (LIMNA) symposium. Lausanne, Switzerland. 17th March 2015. *Poster*

- presentation.*
1. **Burton KJ**,¹ Pimentel G,^{1,2} Badertscher R,² Portmann R,² von Ah U,² Voirol MJ,¹ Pralong FP,¹ Vionnet N,¹ Vergères G.² A Regulatory Role for Probiotic Yoghurt on Parameters of Metabolic Health in Healthy Men : A Pilot Study. 11th NuGo Week-Nutrigenomics of foods. Napoli, Italy. 8th- 11th September 2014. Abstract published in book of abstracts (p69). *Poster presentation. Awarded poster 1st prize.*