



Faye Chleilat

Postdoctoral Scholar, Genetics

Bio

INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of Calgary (2021)
- Master of Science, University of Guelph (2017)
- Bachelor of Science, University of Guelph (2014)

STANFORD ADVISORS

- Michael Snyder, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Short-chain fatty acid metabolites propionate and butyrate are unique epigenetic regulatory elements linking diet, metabolism and gene expression.** *Nature metabolism*
Nshanian, M., Gruber, J. J., Geller, B. S., Chleilat, F., Lancaster, S. M., White, S. M., Alexandrova, L., Camarillo, J. M., Kelleher, N. L., Zhao, Y., Snyder, M. P.
2025
- **Longitudinal profiling of the microbiome at four body sites reveals core stability and individualized dynamics during health and disease.** *Cell host & microbe*
Zhou, X., Shen, X., Johnson, J. S., Spakowicz, D. J., Agnello, M., Zhou, W., Avina, M., Honkala, A., Chleilat, F., Chen, S. J., Cha, K., Leopold, S., Zhu, et al
2024
- **Short-chain fatty acids propionate and butyrate control growth and differentiation linked to cellular metabolism.** *Research square*
Nshanian, M., Geller, B. S., Gruber, J. J., Chleilat, F., Camarillo, J. M., Kelleher, N. L., Zhao, Y., Snyder, M. P.
2024
- **Associations Between Health Behaviors, Gastrointestinal Symptoms, and Gut Microbiota in a Cross-Sectional Sample of Cancer Survivors: Secondary Analysis from the Chemo-Gut Study.** *Integrative cancer therapies*
Deleemans, J. M., Chleilat, F., Reimer, R. A., Lawal, O. A., Baydoun, M., Piedalue, K., Lowry, D. E., Carlson, L. E.
2024; 23: 15347354241240141
- **ASSOCIATIONS BETWEEN HEALTH BEHAVIOURS, GI SYMPTOMS, AND GUT MICROBIOTA IN A CROSSECTIONAL SAMPLE OF CANCER SURVIVORS: SECONDARY ANALYSIS FROM THE CHEMO-GUT STUDY**
Deleemans, J., Chleilat, F., Reimer, R., Baydoun, M., Piedalue, K., Lowry, D., Carlson, L.
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- **The Chemo-Gut Pilot Study: Associations between Gut Microbiota, Gastrointestinal Symptoms, and Psychosocial Health Outcomes in a Cross-Sectional Sample of Young Adult Cancer Survivors.** *Current oncology (Toronto, Ont.)*
Deleemans, J. M., Chleilat, F., Reimer, R. A., Baydoun, M., Piedalue, K., Lowry, D. E., Henning, J., Carlson, L. E.
2022; 29 (5): 2973-2994
- **Effect of supplementation with select human milk oligosaccharides on artificially reared newborn rats** *BRITISH JOURNAL OF NUTRITION*
Wang, W., Mu, C., Cho, N. A., Tuplin, E., Lowry, D. E., Chleilat, F., Sales, K. M., Sampsell, K., Shearer, J., Reimer, R. A.
2021
- **The Effects of Human Milk Oligosaccharide Supplementation During Critical Periods of Development on the Mesolimbic Dopamine System** *NEUROSCIENCE*
Tuplin, E., Chleilat, F., Alukic, E., Reimer, R. A.
2021; 459: 166-178
- **Microbiota Changes in Fathers Consuming a High Prebiotic Fiber Diet Have Minimal Effects on Male and Female Offspring in Rats** *NUTRIENTS*
Chleilat, F., Schick, A., Reimer, R. A.
2021; 13 (3)
- **Paternal Methyl Donor Supplementation in Rats Improves Fertility, Physiological Outcomes, Gut Microbial Signatures and Epigenetic Markers Altered by High Fat/High Sucrose Diet** *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*
Chleilat, F., Schick, A., Deleemans, J. M., Reimer, R. A.
2021; 22 (2)
- **Concurrent Prebiotic Intake Reverses Insulin Resistance Induced by Early-Life Pulsed Antibiotic in Rats** *BIOMEDICINES*
Klancic, T., Laforest-Lapointe, I., Wong, J., Choo, A., Nettleton, J. E., Chleilat, F., Arrieta, M., Reimer, R. A.
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- **Dietary Vitamin B6 Deficiency Impairs Gut Microbiota and Host and Microbial Metabolites in Rats** *BIOMEDICINES*
Mayengbam, S., Chleilat, F., Reimer, R. A.
2020; 8 (11)
- **Maternal low-dose aspartame and stevia consumption with an obesogenic diet alters metabolism, gut microbiota and mesolimbic reward system in rat dams and their offspring** *GUT*
Nettleton, J. E., Cho, N. A., Klancic, T., Nicolucci, A. C., Shearer, J., Borgland, S. L., Johnston, L. A., Ramay, H. R., Noye Tuplin, E., Chleilat, F., Thomson, C., Mayengbam, S., McCoy, et al
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- **Prebiotic Oligofructose Prevents Antibiotic-Induced Obesity Risk and Improves Metabolic and Gut Microbiota Profiles in Rat Dams and Offspring** *MOLECULAR NUTRITION & FOOD RESEARCH*
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- **Human Milk Oligosaccharide Supplementation Affects Intestinal Barrier Function and Microbial Composition in the Gastrointestinal Tract of Young Sprague Dawley Rats** *NUTRIENTS*
Chleilat, F., Klancic, T., Ma, K., Schick, A., Nettleton, J. E., Reimer, R. A.
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- **The chemo-gut study: investigating the long-term effects of chemotherapy on gut microbiota, metabolic, immune, psychological and cognitive parameters in young adult Cancer survivors; study protocol** *BMC CANCER*
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- **Low-Dose Stevia (Rebaudioside A) Consumption Perturbs Gut Microbiota and the Mesolimbic Dopamine Reward System** *NUTRIENTS*
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