Research Publications: UBC Faculty of Land and Food Systems

Timeframe: April 1, 2021-June 30, 2021

Priority Area: Addressing Climate Change and Resilient Food Systems

Google Scholar

- Optimal ultrasonication process time remains constant for a specific nanoemulsion size reduction system. Scientific Reports, 11(1), 1-12, 9241, April 2021. Authors: Anubhav Pratap-Singh, Yigong Guo, Sofia Lara Ochoa, Farahnaz Fathordoobady, Anika Singh


- Inherent and Stress-Induced Responses of Fine Root Morphology and Anatomy in Commercial Grapevine Rootstocks with Contrasting Drought Resistance. Plants, 10(6), 1121, June 2021. Authors: Idan Reingwirtz, Jake Uretsky, Italo F. Cuneo, Thorsten Knipfer, Clarissa Reyes, M. Andrew Walker, Andrew J. McElrone


- Lactic acid fermentation: A novel approach to eliminate unpleasant aroma in pea protein isolates. LWT Food Science and Technology, 111927, June 2021. Authors: Yuan Shi, Anika Singh, David D Kitts, Anubhav Pratap-Singh

- Food Processing Wastewater Treatment: Current Practices and Future Challenges. Pollution Control Technologies, 177-208, June 2021. Authors: Darakhshan Nayyar, Tabish Nawaz, Saba Noore, Anubhav Pratap Singh

• Effects of aging on the shelf life and viscoelasticity of gellan gum microcapsules. **Food Hydrocolloids, 106982, June 2021.** Authors: Yun-Han Huang, Xiran Li, Mariano Michelon, Bruna, C. Leapercio, Marcio S.Carvalho, John M.Frostad

SciVal

• Organo-mineral associations largely contribute to the stabilization of century-old pyrogenic organic matter in cropland soils. **Geoderma, 388, 114841, April 2021.** Authors: Victor Burgeon, Julien Fouché, Jens Leifeld, Claire Chenu, Jean-Thomas Cornélis

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**Priority Area: Ending Hunger and Improving Food Security**

Google Scholar

• Predictors of household food insecurity and relationship with obesity in First Nations communities in British Columbia, Manitoba, Alberta and Ontario. **Public Health Nutrition, 24(5), 1021-1033, April 2021.** Authors: Ashleigh Domingo, Jerry Spiegel, Martin Guhn, Hannah Wittman, Amy Ing, Tonio Sadik, Karen Fediuk, Constantine Tikhonov, Harald Schwartz, Hing Man Chan, Malek Batal


• Citizen views on genome editing: effects of species and purpose. **Agriculture and Human Values, 1-14, June 2021.** Author: Gesa Busch, Erin Ryan, Marina A. G. von Keyserlingk, Daniel M. Weary

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**Priority Area: Enhancing Regional Agriculture for Sustainable Cities**

Google Scholar

• Assessment of metal contamination in soil and vegetation along the Arbutus Greenway in Vancouver, British Columbia. **Plant and Soil, April 2021.** Authors: Fausak, L., A, D. Watkinson, K. Dy, and L.M. Lavkulich

• Data from: Lythrum salicaria common garden under Neogalerucella herbivory. **Dryad, Dataset, May 2021.** Authors: Michael Stastny, Risa Sargent, Jake Russell-Mercier

• Diversification supports farm income and improved working conditions during agroecological transitions in southern Brazil. **Agronomy for Sustainable Development, 41(3), 35, May 2021.** Authors: Anne Elise Stratton, Hannah Wittman, Jennifer Blesh


• Tree Diversity, Site Index, and Carbon Storage Decrease with Aridity in Douglas-Fir Forests in Western Canada. **Frontiers in Forests and Global Change, June 23, 2021.** Authors: Roach, Winnifred Jean and Simard, Suzanne W. and Defrenne, Camille E. and Pickles, Brian J. and Lavkulich, Les M. and Ryan, Teresa.
• Saving the world from your couch: the heterogeneous medium-run benefits of COVID-19 lockdowns on air pollution. *Environmental Research Letters, 25 June 2021*. Authors: Jean-Philippe Bonardi, Quentin Gallea, Dimitrija Kalanoski, Rafael Lalive, Raahil Madhok, Frederik Noack, Dominic Rohner, and Tommaso Sonno

SciVal


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**Priority Area: Promoting Nutrition and Wellbeing for Healthier Communities**

Google Scholar


• Is eating a mixed diet better for health and survival?: A systematic review and meta-analysis of longitudinal observational studies. *Critical Reviews in Food Science and Nutrition, 1-17, May 2021*. Authors: Hadis Mozaffari, Zeinab Hosseini, Jacynthe Lafrenièr, Annalijn I. Conklin


• High Prevalence of Vitamin D Inadequacy During Late Postpartum in Canadian Mothers. *Current Developments in Nutrition, 5*(Supplement 2), 790-790, June 2021. Authors: Sarah Montgomery, Angella Lee, Nasime Sarbar, Deborah Zibrik, Yvonne Lamers

• Turmeric and its bioactive constituents trigger cell signaling mechanisms that protect against diabetes and cardiovascular diseases. *Molecular and Cellular Biochemistry, 1-30, June 2021*. Authors: Huiying Amelie Zhang, David D. Kitts

• BRUNOL5 as a Novel Oncogene Is Epigenetically Regulated by Stilbenoids in Primary Liver Cancer Cells. Current Developments in Nutrition, 5(Supplement 2), 287, June 2021. Authors: Tony Yang, Cayla Boycott, Katarzyna Lubecka, Barbara Stefanska

• Changes in Dietary Intake After an 8-week Meal-Kit Delivery Program in Adults With an Overweight Condition or Obesity. Current Developments in Nutrition, 5(Supplement 2), 978-978, June 2021. Authors: Maryam KheirmandParizi, Sara Sorrini, Hugues Plourde, Tamara Cohen

• Qualitative Evaluation of a Diet Self-Monitoring Tool in a Sample of Older Adults. Current Developments in Nutrition, 5(Supplement 2), 965-965, June 2021. Authors: Celeste Bouchaud, May Slim, Jean-Philippe Gouin, Hugues Plourde, Tamara Cohen

• Suitability of a Post-Operative Bariatric Nutrition Education Tool. Current Developments in Nutrition, 5(Supplement 2), 1194-1194, June 2021. Authors: Patricia Angeles, Yolanda Wang, Alexandra Heidl, Biagina-Carla Farnesi, Angela Alberga, Tamara Cohen

• Development and validation of a predictive algorithm for risk of dementia in the community setting. J Epidemiol Community Health, June 2021. Authors: Stacey Fisher, Douglas G Manuel, Amy T Hsu, Carol Bennett, Melttem Tuna, Anan Bader Eddeen, Yulric Sequeira, Mahsa Jessri, Monica Taljaard, Geoffrey M Anderson, Peter Tanuseputro

SciVal

• Ethanol adaptation in foodborne bacterial pathogens. Critical reviews in food science and nutrition, 1-11, 2021. Authors: Shoukui He, Karen Fong, Siyun Wang, Xianming Shi


• Encapsulation of betacyanins from the peel of red dragon fruit (Hylocereus polyrhizus L.) in alginate microbeads. Food Hydrocolloids, 113, 106535, April 2021. Authors: Farahnaz Fathordoobady, Maciej Jarzębski, Anubhav Pratap-Singh, Yigong Guo, Yazid Abd-Manap


• Active Biodegradable Films Based on Sweet Lime Peel Residue and Its Effect on Quality of Fish Fillets. Polymers, 13(8), 1240, April 2021. Authors: Yasir Arafaat, Ammar Altemimi, Anubhav Pratap-Singh, Laxmikant S. Badwaik

• An Approach for Integrating and Analyzing Sustainability in Food-Based Dietary Guidelines. Frontiers in Sustainable Food Systems, 5, 544072, April 2021. Authors: Rachel Mazac, Kerry Renwick, Barbara Seed, Jennifer L Black

• Detectable Unmetabolized Folic Acid and Elevated Folate Concentrations in Folic Acid-Supplemented Canadian Children With Sickle Cell Disease. Frontiers in Nutrition, 8, 642306, April 2021. Authors: Brock A. Williams, Cara Mayer, Heather McCartney, Angela M. Devlin, Yvonne Lamers, Suzanne M. Vercauteren, John K. Wu, Crystal D. Karakochuk
Priority Area: Ensuring the Health and Welfare of Animals in Society

Google Scholar

- Climate change and companion animals: Identifying links and opportunities for mitigation and adaptation strategies. Integrative and Comparative Biology, April 2021. Authors: Alexandra Protopopova, Lexis H Ly, Bailey H Eagan, Kelsea M Brown
- A break from the pups: The effects of loft access on the welfare of lactating laboratory rats. PloS one, 16(6), e0253020, June 2021. Authors: Anna S. Ratuski, Daniel M. Weary
• Interviews with 12 laboratory animal facility managers regarding institutional transparency. Scholars Portal Dataverse, June 2021. Authors: Michael Brunt, Daniel Weary
• Animal-assisted Interventions as an Adjunct to ABA Services: Clinician Practices and Perceptions. Behavior Analysis in Practice, 1-18, June 2021. Authors: Jessica L Ghai, Donna H Lehr, Nancy E Harayama, Fred Spooner, Alexandra Protopopova

SciVal

• Public attitudes toward dairy farm practices and technology related to milk production. PloS one, 16(4), e0250850, April 2021. Authors: Lexis H. Ly, Erin B. Ryan, Daniel M. Weary
• The Dispensable Surplus Dairy Calf: Is This Issue a “Wicked Problem” and Where Do We Go From Here?. Frontiers in Veterinary Science, 8, 660934, April 2021. Authors: Sarah E. Bolton, Marina A. G. von Keyserlingk
• Valid oxygen uptake measurements: using high r2 values with good intentions can bias upward the determination of standard metabolic rate. Journal of Fish Biology, 98(5), 1206-1216, May 2021. Authors: Denis Chabot, Yangfan Zhang, Anthony P. Farrell
• Gene Editing for Improved Animal Welfare and Production Traits in Cattle: Will This Technology Be Embraced or Rejected by the Public?. Sustainability, 13(9), 4966, April 2021. Authors: Maria Cristina Yunes, Zimbábwe Osório-Santos, Marina A. G. von Keyserlingk, Maria José Hötzel

Publications related to Teaching and Learning

• Virtual and in-person teaching and learning activities for core food science courses. Journal of Food Science Education, 20(2), 72-75, April 2021. Authors: Patricia Hingston, Rosalia Garcia-Torres, Vinay Mannam