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Emily Manoogian, PhD

Special Collection Editor

Obesity Journal

Dr. Manoogian,

Please find enclosed our original research article entitled, “Gestational Early-Time Restricted Feeding Results in Sex-Specific Glucose Intolerance in Adult Male Mice” for consideration for the Obesity special issue on Time-Restricted Eating. This work has not been published and has not been submitted or under review with another journal, but has been recently posted as a pre-print on bioRxiv, and is available at <https://doi.org/10.1101/2022.04.27.489576>. This manuscript covers two understudied populations in the field of chrononutrition; pregnant people and their offspring. Recent work has set the precedent that 23.7% of women would consider trying this diet while pregnant. However, data on the long-term implications of this diet during pregnancy are lacking and limited to animal studies with focus on mitigating the harms of high fat diet feeding on fetal lung and placental development. Our work evaluates the metabolic profile of these offspring, the first study asking this question.

The enclosed original research article is novel and unique in several ways. Our submission focuses on the longitudinal assessment body composition, food intake, and metabolic health of the offspring following gestational exposure to TRF under both normal and obesogenic diets. We evaluate both males and female mice throughout adulthood and after challenge to long term high fat diet feeding. We report a novel sexually dimorphic dysmetabolism, wherein male mice are glucose intolerant after high fat diet feeding, but females are not. These studies would be difficult or impossible in humans, highlighting the importance of this pre-clinical work. We propose that the following experts would be excellent reviewers of this work given their expertise in time restricted feeding and experimental models. We have no reviewers that we wish to exclude.

* Amandine Chaix, Assistant Professor Nutrition and Integrative Physiology, University of Utah
* Megumi Hatori, Associate Professor, Keio University School of Medicine
* Courtney Peterson, Associate Professor, Nutrition Sciences, University of Alabama, Birmingham
* Madan Godbole, Professor of Endocrinology, Sanjay Gandhi Postgraduate Institute of Medical Sciences

Our authors have no conflicts of interest to disclose. Thank you for your consideration of this work, and your efforts in organizing this special issue.





Dave Bridges, PhD Molly C. Mulcahy MS, RD