MNORC

Michigan
Nutrition & Obesity Research Center

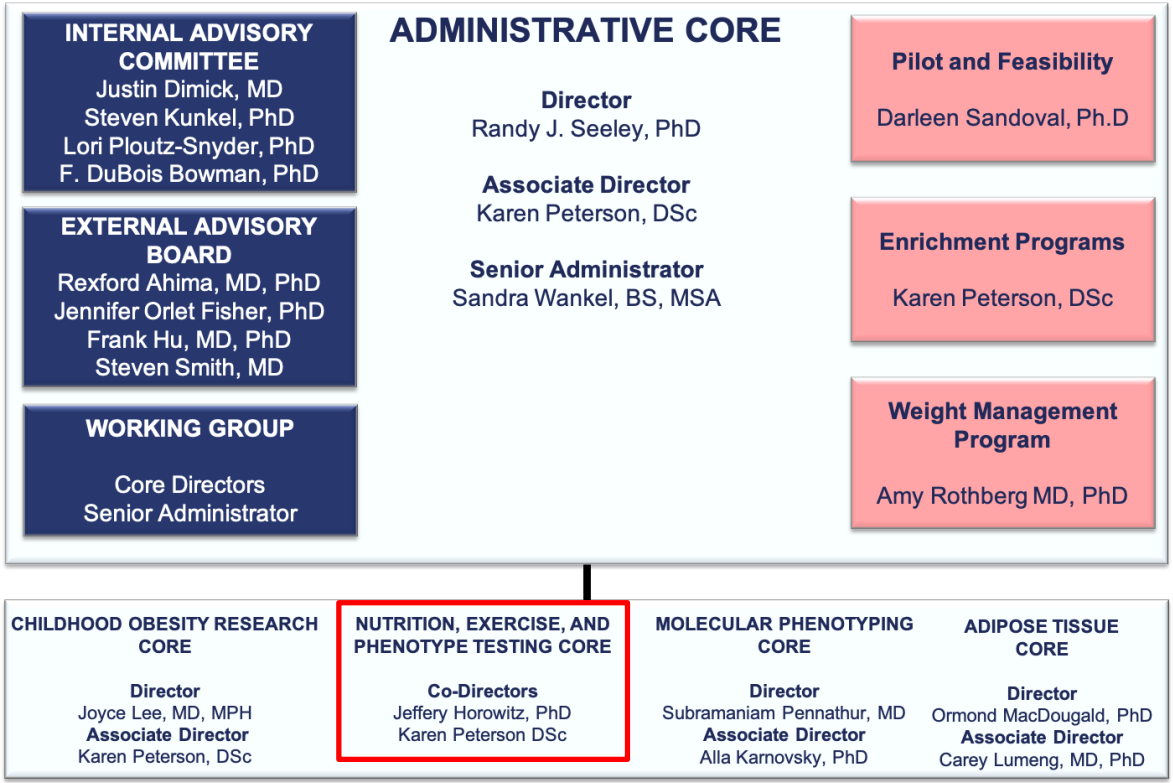
Nutrition, Exercise & Phenotype Testing Core

Co-Directors

Jeffrey Horowitz - Kinesiology

Karen Peterson - Nutritional Sciences

The **Nutrition, Exercise & Phenotype Testing Core (NExT)**
is a service core of the **Michigan Nutrition and Obesity Research Center.**



Our objective is to **enhance and expand the research capabilities** of investigators performing studies related to nutrition, obesity, or related disorders in humans.

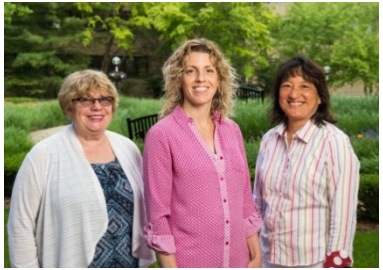
The HPC is a **collaborative network** of laboratory and research facilities on campus.

Karen Peterson, D. Sc
School of Public Health

NExT Core

Jeff Horowitz, PhD
School of Kinesiology

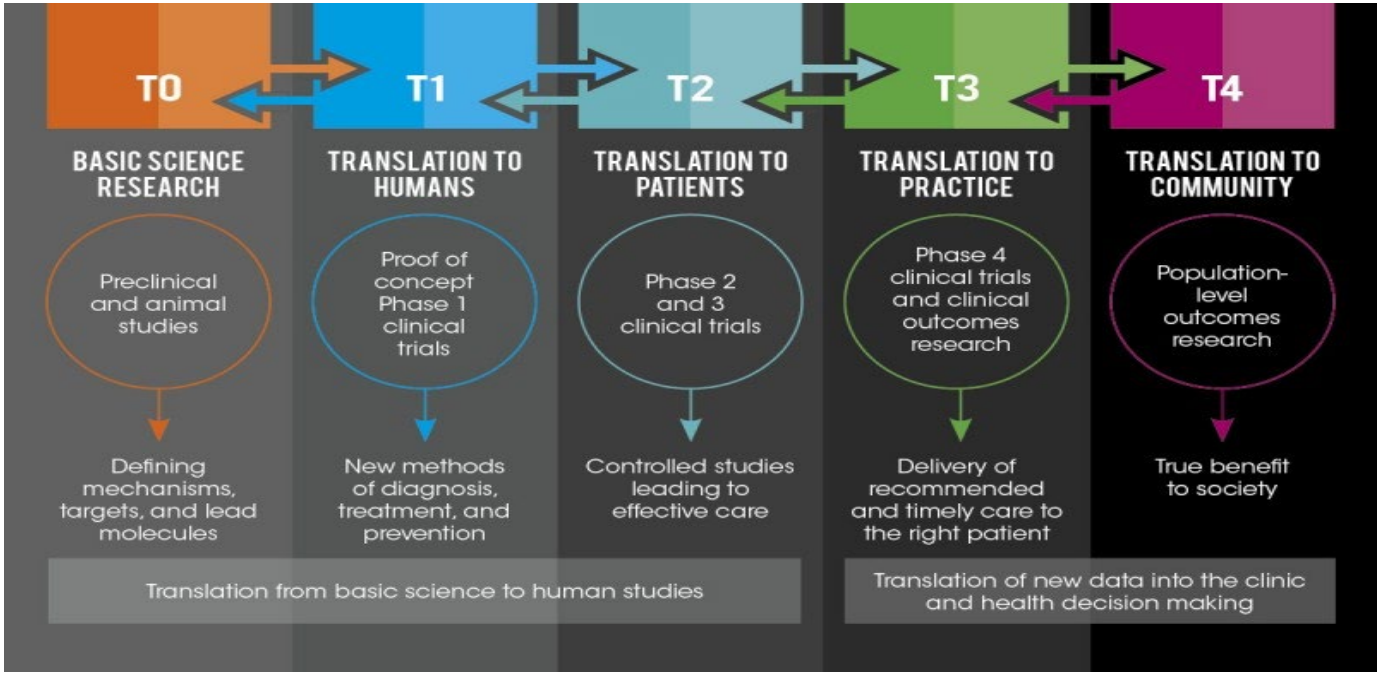
Nutrition Assessment Lab



General Phenotyping

Physical Activity Lab

Whatever your niche, we provide services to **strengthen** your research and make it more **cost effective** at the same time.

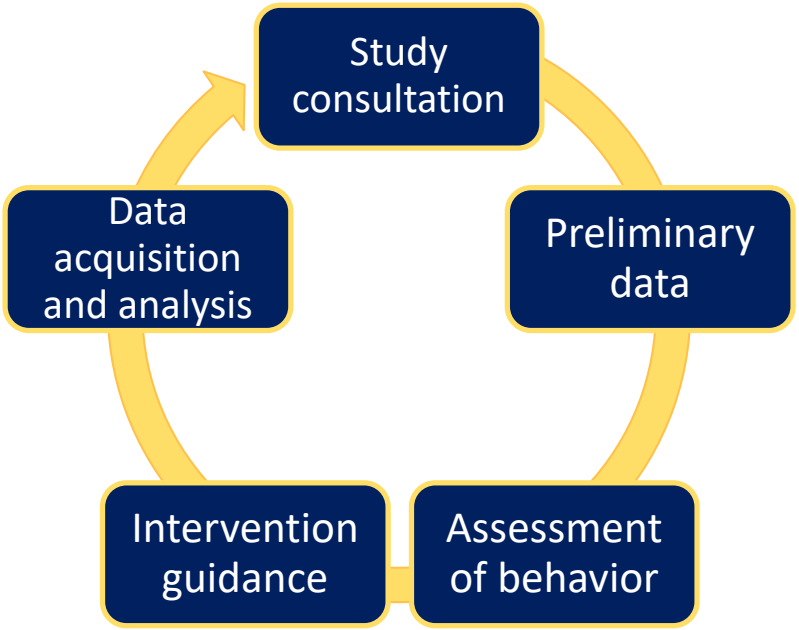


MNORC

WE CAN HELP YOU WITH YOUR RESEARCH STUDY OR GRANT PROPOSAL

WE CAN HELP….

the “bench scientist” looking to add a *translational* aim to strengthen a grant proposal.



WE CAN HELP…

the “research clinician” looking to test and/or develop an specific drug, diet, or lifestyle intervention

- Study consultation
- Randomization and blinding
- Assessment of behavior
- Intervention development and delivery
- Intervention compliance and tracking
- Data collection and analysis

WE CAN HELP…

the “community researcher” looking to study humans in their natural environment

We can help take your **grant** to the next level.

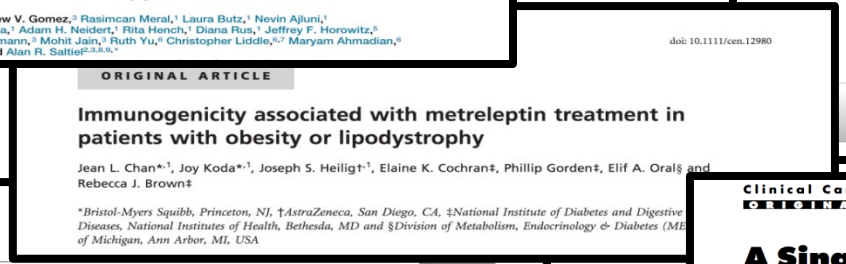
	MNORC NExT	Individual Laboratory
expertise	nutrition, physical activity, general human phenotyping + their appropriate inclusion within clinical research	focused on key specialized area
	ready-to-go, clinically trained staff	hire + train additional staff for project
facilities & resources	multiple ongoing collaborative relationships throughout UM and beyond with individuals, departments and units	limited to resources within one laboratory + collaborations formed by this laboratory
	nationally recognized	
fee structure	pay as you go	% effort
	no extended financial commitment	expected to provide continued support to laboratory staff regardless of project needs

Cell Metabolism

Clinical and Translational Report

Inhibition of IKKε and TBK1 Improves Glucose Control in a Subset of Patients with Type 2 Diabetes

Elif A. Oral,[1,*] Shannon M. Reilly,[2,3] Andrew V. Gomez,[3] Rasimcan Meral,[1] Laura Butz,[1] Nevin Ajluni,[1] Thomas L. Chenevert,[4] Evgenia Korytnaya,[1] Adam H. Neidert,[1] Rita Hench,[1] Diana Rus,[1] Jeffrey F. Horowitz,[5] BreAnne Poirier,[2] Peng Zhao,[2,3] Kim Lehmann,[3] Mohit Jain,[3] Ruth Yu,[6] Christopher Liddle,[6,7] Maryam Ahmadian,[6] Michael Downes,[6] Ronald M. Evans,[6] and Alan R. Saltiel[2,3,8,9,*]



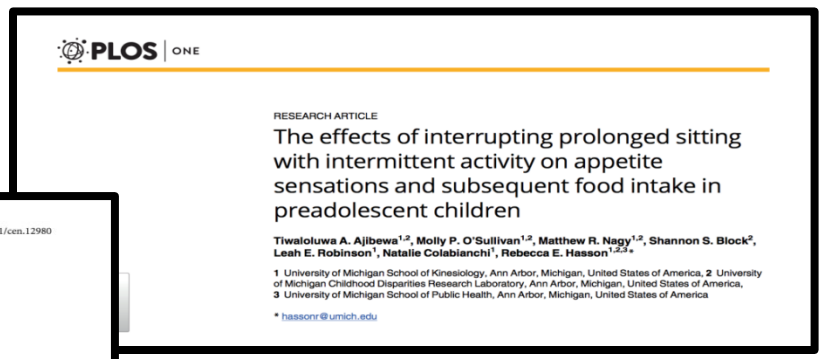
doi: 10.1111/cen.12980

ORIGINAL ARTICLE

Immunogenicity associated with metreleptin treatment in patients with obesity or lipodystrophy

Jean L. Chan*,[1], Joy Koda*,[1], Joseph S. Heiligt,[1], Elaine K. Cochran‡, Phillip Gorden‡, Elif A. Oral§ and Rebecca J. Brown‡

*Bristol-Myers Squibb, Princeton, NJ, †AstraZeneca, San Diego, CA, ‡National Institute of Diabetes and Digestive Diseases, National Institutes of Health, Bethesda, MD and §Division of Metabolism, Endocrinology & Diabetes (ME of Michigan, Ann Arbor, MI, USA



PLOS ONE

RESEARCH ARTICLE

The effects of interrupting prolonged sitting with intermittent activity on appetite sensations and subsequent food intake in preadolescent children

Tiwaloluwa A. Ajibewa[1,2], Molly P. O'Sullivan[1,2], Matthew R. Nagy[1,2], Shannon S. Block[2], Leah E. Robinson[1], Natalie Colabianchi[1], Rebecca E. Hasson[1,2,3]*

1 University of Michigan School of Kinesiology, Ann Arbor, Michigan, United States of America, **2** University of Michigan Childhood Disparities Research Laboratory, Ann Arbor, Michigan, United States of America, **3** University of Michigan School of Public Health, Ann Arbor, Michigan, United States of America

* hassonr@umich.edu

Contents lists available at ScienceDirect

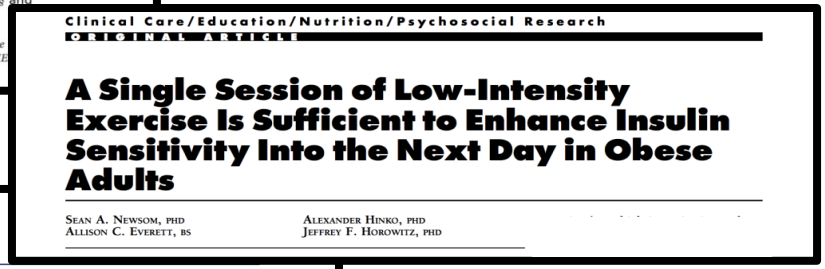
Journal of Psychiatric Research

journal homepage: www.elsevier.com/locate/psychires

Bipolar disorder moderates associations between I markers of inflammation

Ya-Wen Chang [a], Shervin Assari [b], Alan R. Prossin [c], Laura Stertz Simon J. Evans [b, *]

[a] Department of Nutritional Sciences, School of Public Health, University of Michigan, Ann Arbor, MI, United St
[b] Department of Psychiatry, University of Michigan, Ann Arbor, MI, United States
[c] Department of Psychiatry and Behavioral Sciences, University of Texas Health Science Center, Houston, TX, U

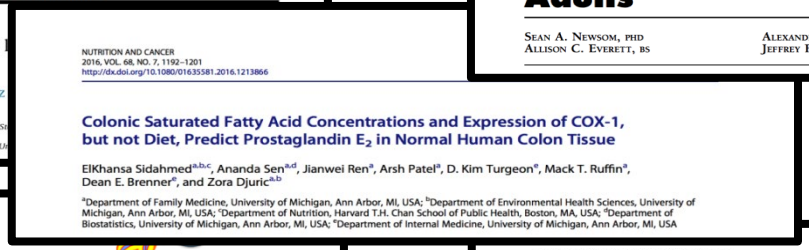


Clinical Care/Education/Nutrition/Psychosocial Research

ORIGINAL ARTICLE

A Single Session of Low-Intensity Exercise Is Sufficient to Enhance Insulin Sensitivity Into the Next Day in Obese Adults

Sean A. Newsom, phd
Allison C. Everett, bs
Alexander Hinko, phd
Jeffrey F. Horowitz, phd



NUTRITION AND CANCER
2016, VOL. 68, NO. 7, 1192–1201
http://dx.doi.org/10.1080/01635581.2016.1213866

Colonic Saturated Fatty Acid Concentrations and Expression of COX-1, but not Diet, Predict Prostaglandin E_2 in Normal Human Colon Tissue

ElKhansa Sidahmed[a,b,c], Ananda Sen[a,d], Jianwei Ren[a], Arsh Patel[a], D. Kim Turgeon[e], Mack T. Ruffin[a], Dean E. Brenner[e], and Zora Djuric[a,b]

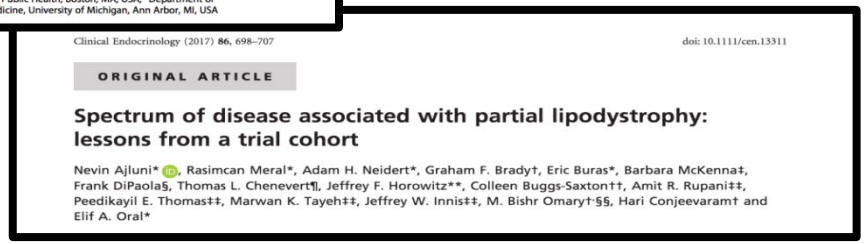
[a]Department of Family Medicine, University of Michigan, Ann Arbor, MI, USA; [b]Department of Environmental Health Sciences, University of Michigan, Ann Arbor, MI, USA; [c]Department of Nutrition, Harvard T.H. Chan School of Public Health, Boston, MA, USA; [d]Department of Biostatistics, University of Michigan, Ann Arbor, MI, USA; [e]Department of Internal Medicine, University of Michigan, Ann Arbor, MI, USA

OBES SURG (2017) 27:1659–1666
DOI 10.1007/s11695-016-2533-1

ORIGINAL CONTRIBUTIONS

Milestone Weight Loss Goals (Weight Normalization and Remission of Obesity) after Gastric Bypass Surgery: Long-Term Results from the University of Michigan

Corey J. Lager[1] · Nazanene H. Esfandiari[1] · Angela R. Subauste[2] · Andrew T. Kraftson[1] · Morton B. Brown[3] · Ruth B. Cassidy[4] · Darlene Bellers[1] · Amy L. Lockwood[1] · Oliver A. Varban[4] · Elif A. Oral[1]



Clinical Endocrinology (2017) 86, 698–707

doi: 10.1111/cen.13311

ORIGINAL ARTICLE

Spectrum of disease associated with partial lipodystrophy: lessons from a trial cohort

Nevin Ajluni* , Rasimcan Meral*, Adam H. Neidert*, Graham F. Brady†, Eric Buras*, Barbara McKenna‡, Frank DiPaola§, Thomas L. Chenevert¶, Jeffrey F. Horowitz**, Colleen Buggs-Saxton††, Amit R. Rupani‡‡, Peedikayil E. Thomas‡‡, Marwan K. Tayeh‡‡, Jeffrey W. Innis‡‡, M. Bishr Omary†§§, Hari Conjeevaram† and Elif A. Oral*

For information on specific services and rates, please contact:

https://medicine.umich.edu/dept/mnorc/core-services/nutrition-exercise-phenotype-testing-core

NExTservices@umich.edu