NORCH
Nutrition Obesity Research Center at Harvard

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Register now for the 24th Annual NORCH Symposium

Adiposity, Immunity, and Inflammation: Interrelationships in Health and Disease

Wednesday, June 7, 2023; 8:30am-4:30pm EST, Virtual
This event is free and open to the public.

The 24th Annual Harvard Nutrition and Obesity Symposium will explore the latest research on a wide range of topics in inflammation and immunometabolism, including pathways from obesity to asthma, adipokines as immunoregulators, and the immunological landscape of adipose tissue. We have an excellent lineup of speakers, including Dr. Gökhan Hotamisligil "Organelle Dysfunction and Meta-inflammation in Obesity," Dr. Joseph Hill "Conspiracy of Co-morbidities: Meta-Inflammation and HFpEF," and Dr. Lydia Lynch giving the George L. Blackburn Keynote Lecture, "Diets, Lipids, and Immunity."

The full list of speakers is available to view on the event webpage.

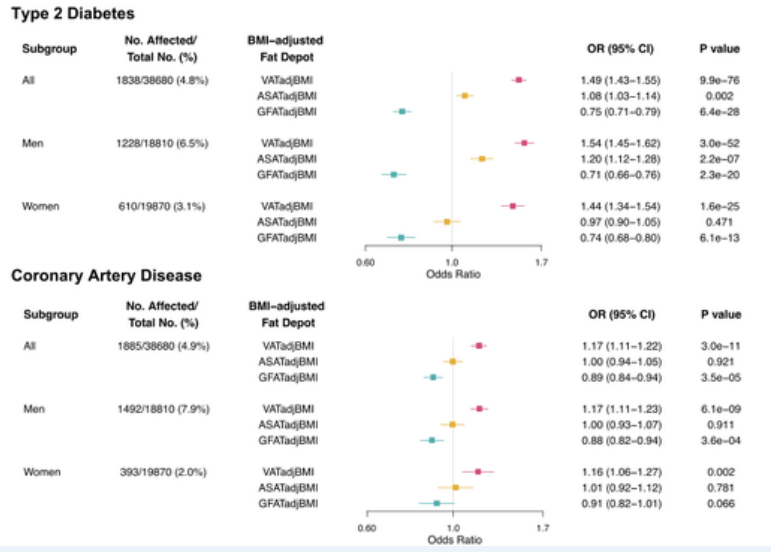
Click here to download the official event flyer.

Click here to register now!

New Publications from NORCH Members

BMI-adjusted adipose tissue volumes exhibit depot-specific and divergent associations with cardiometabolic diseases

For any given body mass index (BMI), individuals vary substantially in fat distribution, and this variation may have important implications for cardiometabolic risk. NORCH members Stanley, Claussnitzer and Grinspoon studied disease associations with BMI-independent variation in visceral (VAT), abdominal subcutaneous (ASAT), and gluteofemoral (GFAT) fat depots in 40,032 individuals of the UK Biobank using body MRI. They applied deep learning models to estimate fat depot volumes and then derived BMI adjusted metrics for each fat depot (e.g. VAT adjusted for BMI, VATadjBMI) to quantify local adiposity burden. Interestingly, VATadjBMI is associated with increased risk of type 2 diabetes and coronary artery disease, ASATadjBMI is largely neutral, and GFATadjBMI is associated with reduced risk. These results – describing three metabolically distinct fat depots at scale – help us to understand the cardiometabolic impact of BMI-independent differences in body fat distribution.



Featured: Agrawal S, Klarqvist M, Diamant N, **Stanley TL**, Ellinor PT, Mehta NN, Philippakis A, Ng K, **Claussnitzer M, Grinspoon S**, Batra P, Khera AV. BMI-adjusted adipose tissue volumes exhibit depot-specific and divergent associations with cardiometabolic diseases. Nat Communications. 2023 Jan 17;14(1):266. PMID: 36650173

Recent Publication Highlights from NORCH Investigators

Ockene MW, Russo SC, **Lee H, Monthé-Drèze C, Stanley TL,** Ma IL**, Toribio M,** Shook LL, **Grinspoon SK**, **Edlow AG**, **Fourman LT**. Accelerated Longitudinal Weight Gain Among Infants with In Utero Covid-19 Exposure. J Clin Endocrinol Metab. 2023 Mar 29:dgad130. doi: 10.1210/clinem/dgad130. Online ahead of print. PMID: 36988326.

Kim YR, Lauze MS, Slattery M, Perlis RH, **Holsen LM**, Breithaupt L, Stern CM, Fava M, Thomas JJ, **Lawson EA, Misra M**, **Eddy KT**. Association Between Ghrelin and Body Weight Trajectory in Individuals With Anorexia Nervosa. JAMA Netw Open. 2023 Mar 1;6(3):e234625. doi: 10.1001/jamanetworkopen.2023.4625.PMID: 36961462

Lauer JM, Kirby MA, Muhihi A, Ulenga N, Aboud S, Liu E, Choy RKM, Arndt MB, Kou J, Fawzi W, Gewirtz A, Sudfeld CR, Manji KP, **Duggan CP**. Assessing environmental enteric dysfunction via multiplex assay and its relation to growth and development among HIV-exposed uninfected Tanzanian infants.PLoS Negl Trop Dis. 2023 Mar 21;17(3):e0011181. doi: 10.1371/journal.pntd.0011181. eCollection 2023 Mar.PMID: 36943785

Martin SL, Cardel MI, Carson TL, Hill JO, **Stanley T, Grinspoon S**, Steger F, Blackman Carr LT, Ashby-Thompson M, Stewart D, Ard J; Nutrition Obesity Research Center Task Force to Advance the Careers of Researchers from Groups Underrepresented in Academia; **Stanford FC**. Increasing diversity, equity, and inclusion in the fields of nutrition and obesity: A road map to equity in academia. Obesity (Silver Spring). 2023 Mar 10. doi: 10.1002/oby.23704. Online ahead of print.PMID: 36896568

Fourman LT, Stanley TL, Ockene MW, McClure CM**, Toribio M, Corey KE, Chung RT, Torriani M,** Kleiner DE, Hadigan CM, **Grinspoon SK**. Proteomic Analysis of Hepatic Fibrosis in Human Immunodeficiency Virus-Associated Nonalcoholic Fatty Liver Disease Demonstrates Up-regulation of Immune Response and Tissue Repair Pathways. J Infect Dis. 2023 Feb 14;227(4):565-576. doi: 10.1093/infdis/jiac475.PMID: 36461941

Our work as a Center is measured in part by the contributions we make to published science. Please cite the NIH Grant **P30 DK040561** in all publications that result from the use of NORCH services or resources.

Local Events

Longwood Nutrition Seminar
Division of Nutrition at Harvard Medical School

Tuesday, June 6, 2023, 12-1pm, Virtual
Tara McCarthy, RD and Erin Syverson, MD, Boston Children's Hospital

Click here for more information. This series occurs on a monthly basis.

Other Opportunities

Staff Clinician I
Section on Pediatric Diabetes, Obesity, and Metabolism National Institute of Diabetes, Digestive & Kidney Diseases| National Institutes of Health
Bethesda, Maryland

The National Institute of Diabetes, Digestive & Kidney Diseases (NIDDK) is seeking an experienced physician to serve as a Staff Clinician conducting clinical and translational metabolic research in collaboration with the principal investigator within the Section on Pediatric Diabetes, Obesity, and Metabolism. The goals of the Section on Pediatric Diabetes, Obesity, and Metabolisms are to minimize the burden of diabetes health disparities across the lifespan by developing effective cardiometabolic screening and therapeutic strategies, especially in women and children. The section conducts clinical studies to investigate: (1) age and race/ethnic variation in diabetes and cardiovascular risk determinants (2) mechanisms of disease progression and treatment non-responsiveness in youth-onset obesity and type 2 diabetes; (3) dietary and lifestyle interventions to reduce and mitigate type 2 diabetes risk.

Applicants should submit a cover letter of interest in the position, including a career synopsis, a current curriculum vitae with complete bibliography, and contact information for three letters of recommendation. Please include in your letter or CV any relevant experiences working with diverse patient populations and clinical teams. Applications will be accepted on a rolling basis. Submit applications to Dr. Stephanie Chung at stephanie.chung@nih.gov. Please indicate “Staff Clinician I position” in the subject line.

For more information please click here.

Contact Us

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