

## Metabolic Health: From Molecules to Populations

September 11-12, 2023

Cornell University, Ithaca, New York

Location: Biotechnology Building G10 (unless otherwise noted) + Statler Ballroom, Statler Hotel | [Zoom](#)

<b>DAY 1</b>	Biotechnology Building G10
6:45am	<i>All WCM attendees arrive at 1300 York Ave and depart for Ithaca</i>
<b>12:00pm</b>	<b>Welcome</b> <a href="#">Rachel Dunifon, PhD</a> , The Rebecca Q. and James C. Morgan Dean, College of Human Ecology Introduced by <a href="#">Pat Cassano, PhD</a> , The Alan D. Mathios Professor and Director, Division of Nutritional Sciences
<b>12:15pm</b>	Welcome/introductions and invite participants to have lunch at tables in G10 Symposium Co-Chairs, <a href="#">Laura Alonso, MD</a> , Director, Joan and Sanford I. Weill Center for Metabolic Health, Weill Cornell Medicine (WCM), and <a href="#">Julia Finkelstein, MPH ScD</a> , Associate Professor, Nutritional Sciences, CU-Ithaca
<b>12:20-12:45</b>	Lunch
<b>12:45pm</b>	<b>Session 1: Diabetes - Molecular mechanisms and cellular therapies</b> <b>Co-chairs:</b> <a href="#">Laura Alonso, MD</a> , Director, Joan and Sanford I Weill Center for Metabolic Health, Weill Cornell Medicine (WCM), and <a href="#">Praveen Sethupathy, PhD</a> , Professor of Physiological Genomics and Director, Center for Vertebrate Genomics, CU-Ithaca (Open to registered attendees and broadcast <i>via</i> live stream)
12:45-12:50	Introduction by session Co-chairs, Laura Alonso, MD and Praveen Sethupathy, PhD
12:55-1:10	<a href="#">James Lo</a> , MD, PhD, Associate Professor, WCM Impact of beta cell heterogeneity in normal glucose control and diabetes
1:15-1:30	<a href="#">Shu-Bing Qian</a> , PhD, James Jamison Professor, Division of Nutritional Sciences Manipulating cysteine stress response using synthetic mRNA
1:35-1:50	<a href="#">Shahin Rafii</a> , MD, Chief, Regenerative Medicine, WCM Molecular determinants of pancreatic islet endothelium for the treatment of diabetes
1:55-2:10	<a href="#">Huguet Landa</a> , PhD, Postdoctoral Associate, Alonso Lab, WCM ATF6 promotes pancreatic beta cell proliferation in high glucose by increasing E2F1 expression and activity
2:10-2:45	<i>Coffee break</i>

- 2:45pm Session 2: Obesity- Adipocytes, muscle, and molecular metabolism**  
**Co-chairs:** [Sander Kersten, PhD](#), Schleifer Family Professor and Incoming Director, Division of Nutritional Sciences  
[Tim McGraw, PhD](#), Professor of Biochemistry, WCM  
(Open to the entire campus and broadcast *via* live stream)
- 2:45-2:50 Introduction by session co-chairs: Sander Kersten, PhD and Tim McGraw, PhD
- 2:50-3:05 [Joeva Barrow PhD RD](#), Assistant Professor, Division of Nutritional Sciences  
Nipsnap1—a critical regulator for the long-term maintenance of brown adipose tissue non-shivering thermogenesis
- 3:10-3:25 [Shannon Reilly, PhD](#), Assistant Professor, WCM  
FFA deposition in lipolytic white adipocytes
- 3:30-3:45 [Daniel Berry, PhD](#), Assistant Professor, Division of Nutritional Sciences  
Smooth muscle cell derived Cxcl12 directs macrophage accrual and sympathetic innervation to control thermogenic adipose tissue
- 3:50-4:05 [Faro Haczeyni, PhD](#), Postdoctoral Associate, Ersoy Lab, WCM  
Submitochondrial protein translocation upon stress inhibits thermogenic energy expenditure
- 4:10-4:25 [Ankit Gilani, PhD](#), Postdoctoral Associate, Lo Lab, WCM  
Fam20c, an Obesity-induced Kinase, Instigates Adipocyte Inflammation and Dysfunction Leading to Type-2 Diabetes
- 6:00-6:45pm Poster Session and Wine/Cheese**  
Statler Hotel Ballroom Foyer
- 7:00-8:30pm Dinner**
- 7:15pm Keynote: [Christopher Lynch, PhD](#)**  
Statler Hotel Ballroom  
Acting Director, Office of Nutrition Research, National Institutes of Health  
*National Institutes of Health Food is Medicine*
- 8:30-11:00pm **Evening Social – Steve Atwood Band**  
Statler Hotel Ballroom

**DAY 2** Biotechnology Building G10

7:30-8:15am *Breakfast*

**8:30am** **Welcome Back to Day 2**

**Session 3: Obesity – Therapeutics, Interventions, and population studies**

**Co-chairs:** [Julia Finkelstein, MPH ScD](#), Associate Professor, Nutritional Sciences, and [Sangeeta Kashyap, MD](#), Assistant Chief for Clinical Affairs, Division of Endocrinology, WCM

(Open to the entire campus and broadcast *via* live stream)

8:35-8:40 Introduction by session co-chairs, Julia Finkelstein, MPH ScD, Sangeeta Kashyap, MD

8:40-8:55 [Meng Wang, MD PhD](#), Assistant Professor, Division of Nutritional Sciences  
Genotoxic aldehydes: A metabolic cause of cancer and aging

9:00-9:15 [Alpana Shukla, MD](#), Associate Professor, WCM  
Nutrient sequencing influences glucose metabolism

9:20-9:35 [Marla Lujan, PhD](#), Associate Professor, Division of Nutritional Sciences  
Interventions for Metabolic Health and Obesity Prevention in PCOS

9:40-9:55 [Puja Chebrolu, MD](#), Assistant Professor, WCM  
Metabolic disease prevention in the critical postpartum window

10:00-10:15 [Samantha Huey, PhD](#), Research Associate, Division of Nutritional Sciences, Center for Precision Nutrition for Health  
World Health Organization Guidelines for Management of Pediatric Obesity

10:30am *Coffee Break*

**11:00am** **Concurrent Breakout Sessions for Working Groups (WG)**

*Closed Session: for participants of the Symposium only*

*Centers and Cross-campus collaborations*

[Laura Alonso, MD](#), Introduction to the [Weill Center for Metabolic Health](#)

[Saurabh Mehta, MBBS ScD](#), Introduction to the [Center for Precision Nutrition for Health](#)

WG 1 Cross-campus collaborations on insulin secretory capacity and stem cell biology  
[Laura Alonso, MD](#), Director, Joan and Sanford I Weill Center for Metabolic Health, WCM  
[Praveen Sethupathy, PhD](#), Professor of Physiological Genomics and Director, Center for Vertebrate Genomics, CU-Ithaca

WG 2 Cross-campus collaborations on obesity and adipocyte biology  
[Fred Maxfield, PhD](#), Professor of Biochemistry, WCM  
[Tim McGraw, PhD](#), Professor of Biochemistry, WCM  
[Sander Kersten, PhD](#), Schleifer Family Professor and Director, DNS [2024]  
[James Lo, MD PhD](#), Associate Professor, WCM

- WG 3 Cross-campus collaborations on obesity interventions and population studies  
NIH Food is Medicine  
[Saurabh Mehta, MBBS ScD](#), Janet and Gordon Lankton Professor, DNS  
[Sangeeta Kashyap, MD](#), Assistant Chief for Clinical Affairs, Div. of Endocrinology, WCM  
[Alpana Shukla, MD](#), Associate Professor, WCM
- Trainee WG Trainees networking
- 12:30pm *Lunch*
- 1:00pm Working Lunch with Recommendations from Working Groups**  
*Closed Session: for participants of the Symposium only*
- 1:00-1:10 WG1 report/recommendations [Alonso, Sethupathy; Trainee TBD]  
1:10-1:20 WG2 report/recommendations [Maxfield, McGraw, Kersten, Lo]  
1:20-1:30 WG3 report/recommendations [Mehta, Shukla, Kashyap]
- 1:30pm Consensus development for overall recommendations and action items**
- 2:00pm Summary, Concluding Remarks, and Next Steps**  
[Laura Alonso, MD](#), and [Julia Finkelstein, MPH ScD](#),  
*Prizes for best early career posters and presentations*
- 2:30pm Meeting Adjourned
- 3:00pm Bus departure  
Boxed meal provided for WCM attendees