SSIB

Society for the Study of Ingestive Behavior

PROGRAM

XXIII[rd] Annual Meeting of the Society for the Study of Ingestive Behavior

The Sheraton Denver Downtown
Denver, CO • July 7 - 11, 2015

MARK YOUR CALENDARS

SSIB 2016
July 12 - July 16

Centro de Congressos
Porto, Portugal

SSIB 2017
July 11 - July 15

Le Centre Sheraton Montreal
Montreal, Quebec

XXIII[rd] Annual Meeting of the Society for the Study of Ingestive Behavior

SSIB

Society for the Study of Ingestive Behavior

PRESIDENT'S MESSAGE

Dear SSIB Community,

It is my great pleasure to welcome you all to the 23rd annual meeting of the Society for the Study of Ingestive Behavior in Denver. This is the first time SSIB has met here, and we are all looking forward to an outstanding meeting in a wonderful location.

Our scientific program once again reflects our efforts to balance molecular, cellular, animal physiology and behavioral approaches (Track 1) with social, psychological, and human research (Track 2). I strongly believe this integrated organization is a hallmark of SSIB that sets us apart from other societies in the field, This year's program results from the efforts and hard work of the Program Committee. Chaired by Mitch Roitman, together with Track Chairs Helen Raybould and Dana Small, the Program Committee has created a meeting that offers a unique mix of all research genres focused on ingestive behaviors. Our goal is to make sure as best we can that each session contains something for everybody. To anchor the daily schedule we have four keynote lectures supported by Mars. We are very pleased to welcome Susan Fried, Anita Jansen, Paul Kenny, and Howard Steiger as this year's Mars lecturers.

It is my pleasure to announce two items at the meeting that recognize the major contributions that Harry Kissileff has made to the field of ingestive behaviors and to SSIB itself. Harry is a founding member of SSIB and has worked tirelessly for the Society ever since. First, we highlight Harry's major contributions to the field in this year's Presidential Symposium. It features four distinguished speakers who will discuss the current state of the science in which Harry has been such an important innovator. Second, the award made to the best oral presentation from a postdoctoral fellow will now be known as the Harry Kissileff Award. It will complement the Gerald P. Smith Award for the best graduate student oral presentation. Both will be presented at the banquet on Saturday.

I would like to offer congratulations to our award winners for this year: Ed Stricker, the Distinguished Career Award; Dana Small, the Alan N. Epstein Award; and Barbara Rolls, the Hoebel Prize for Creativity. Presentations will be made during the awards session on Saturday afternoon, which concludes the formal science part of the meeting. This session is always a highlight, and I invite you to attend this stimulating and enjoyable event to honor our awardees and hear their presentations.

SSIB places great importance on providing opportunities for students, post-docs, and junior faculty to present their work to the field. Last year we were able to make fifteen New Investigator Travel Awards (NITAs), a record number. This year because of the continued support from Novo Nordisk, and the very generous donations from our members, I am very pleased that we are able to maintain the same number of NITAs as in 2014. These travel awards are made to students and postdoctoral fellows whose abstracts were judged to be outstanding and deserving of financial support. Eight of these will be presented during the NITA symposium; the other seven during appropriate oral sessions. You will see these awardees highlighted at various points in the Program. We are very grateful to all who have made the NITAs possible.

This year we have a new award category: the best poster presentation from a graduate student or post-doc. Two awards will made, one each for Track 1 and Track 2. I would like to thank Sara Hargrave for advocating to the Board for this new award, and for her efforts in making it possible.

The task of making SSIB an effective organization and the annual meeting a successful and stimulating scientific event is the responsibility of dedicated and hard working volunteer members. Without their efforts we would not be here today in Denver. And so at this point I would like to acknowledge the work of the people who make SSIB run efficiently. My first thanks are to Barry Levin, who as Past-President has provided much help, sage advice, and valuable opinion throughout my year as President; he has certainly made my duties easier. Our incoming President, Suzanne Higgs, has also given me a great deal of support and input throughout the year. She chaired the NITA and Epstein award selection committees, and we are all grateful to her for performing these important tasks. The Program Committee is a key part of SSIB, and so once again I would like to thank Mitch Roitman and the rest of the committee for their considerable efforts in putting this year's meeting together. Many thanks also to the SSIB officers, all the chairs and members of the different committees that have contributed in various ways, and to the SSIB Board of Directors who oversee all things SSIB.

Our annual meeting would not be possible without the support of all our corporate sponsors and exhibitors. Many of them are long time friends of SSIB to whom we are very grateful for their continued support. Their generous donations and willingness to exhibit helps make the meeting possible. Our exhibitors have chosen SSIB as a venue because they believe their products are of potential value to your research. I welcome them all to the meeting and strongly encourage you to visit their booths and see their products during the next few days. This year I want to offer special thanks to all the SSIB members who made personal donations. Your efforts were outstanding and have helped considerably.

Finally, I would like to thank our management company, SPLtrak. Jamie Price, Adam Kohm, and Tracy Tarant provide friendly, efficient, timely, and extremely effective management throughout the year. I have very much enjoyed working with them, and I gratefully acknowledge and appreciate their efforts.

I hope that you have a enjoyable, stimulating, and successful meeting.

Alan Watts
watts@usc.edu
SSIB President 2014-2015

GENERAL INFORMATION

DATES
The XXIII[rd] Annual Meeting of the Society for the Study of Ingestive Behavior begins Tuesday, July 7, 2015 and adjourns Saturday, July 11, 2015.

CONFERENCE VENUE
The Sheraton Denver Downtown
1550 Court Place
Denver, CO 80202
(303) 893-3333

REGISTRATION INFORMATION
Name badges and final programs will be distributed at the Registration Desk. The Registration Desk is located in the South Convention Lobby.

SPEAKER READY AREA
The speaker ready area will be available to all oral presenters to both preview and edit your presentations if necessary. The speaker ready area is located at the Registration Desk. Additional information for Oral and Poster Presenters may be found on pages 11 and 12.

NO PHOTOGRAPHY POLICY
The conference organizers have decided that photography is not allowed except for official conference photographers.

MOBILE (CELLULAR) TELEPHONES
As a courtesy to others, please switch off mobile telephones during all sessions.

LOST AND FOUND
All lost and found articles will be held at the conference registration desk.

EXHIBITS & BREAKS
The exhibits are located in the South Convention Lobby and will be open during the following hours:

Wednesday
10:30 AM - 11:00 AM (coffee break)
5:30 PM - 7:30 PM (poster session)

Thursday
10:30 AM - 11:00 AM (coffee break)
3:30 PM - 4:00 PM (coffee break)
6:00 PM - 8:00 PM (poster session)

Friday
10:30 AM - 11:00 AM (coffee break)
6:00 PM - 8:00 PM (poster session)

Saturday
10:30 AM - 11:00 AM (coffee break)

ONLINE/MOBILE CONFERENCE PROGRAM

SSIB attendees may access the online conference in multiple formats.

Web-Based App
http://mobile.ssib.org

iOS/Android App
STEP 1: Download the MA eProgram App from the iOS App Store or Google Play.

STEP 2: Use the scan event QR code feature and the following activation code:

Or enter “ssib2015” as the username and password.

SSIB 2015 OFFICERS

Alan Watts, DPhil (2015)
University of Southern California, USA
President

Suzanne Higgs, Ph.D. (2015)
University of Birmingham, UK
President-Elect

Barry Levin, MD (2015)
Rutgers-New Jersey Medical School, USA
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Derek Daniels, Ph.D. (2015)
University of Buffalo, USA
Secretary

Ruth Harris, Ph.D. (2015)
Medical College of Georgia, USA
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SSIB 2015 BOARD MEMBERS

Christine Feinle-Bisset, Ph.D. (2016)
University of Adelaide, Australia

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Dana Small, Ph.D. (2016)
Yale University, USA

Kellie Tamashiro, Ph.D. (2016)
Johns Hopkins University, USA

Margriet Westerterp, Ph.D. (2015)
Maastricht University, Netherlands

Diana Williams, Ph.D. (2017)
Florida State University, USA

Sara Hargrave, M.S. (2017 - Student Representative)
Purdue University, USA

Harry R. Kissileff, Ph.D. (Honorary Member)
Columbia University Medical Center, USA

SSIB 2015 PROGRAM CHAIR

Mitch Roitman, Ph.D.
University of Illinois at Chicago, USA

SSIB 2015 PROGRAM COMMITTEE

Track Chairs

Helen Raybould, Ph.D.
UC Davis School of Veterinary Medicine, USA
Track 1 Chair

Dana Small, Ph.D.
Yale School of Medicine, The John B Pierce Laboratory, USA
Track 2 Chair

Committee Members

Scott Kanoski, Ph.D.
University of Southern California, USA
Track 1

Kimberly Kinzig, Ph.D.
Purdue University, USA
Track 1

Ellen Ladenheim, Ph.D.
Johns Hopkins University School of Medicine, USA
Track 1

Robert Ritter, Ph.D.
Washington State University, USA
Track 1

Megan Dailey, Ph.D.
University of Illinois, Urbana-Champaign, USA
Track 1

Jessica Santollo, Ph.D.
SUNY Buffalo, USA
Track 1

Marion Hetherington, BSc, DPhil
University of Leeds, UK
Track 2

Kathleen Keller, Ph.D.
The Pennsylvania State University, USA
Track 2

Laurence Nolan, Ph.D.
Wagner College, USA
Track 2

Jeff Brunstrom, Ph.D.
University of Bristol, UK
Track 2

Eric Robinson, Ph.D.
University of Liverpool, UK
Track 2

SSIB 2015 LONG RANGE PLANNING COMMITTEE

Alan Spector, Ph.D.
Florida State University, USA
Committee Chair

Suzanne Higgs, Ph.D. (2016)
University of Birmingham, UK

Michael Lowe, Ph.D. (2016)
Drexel University, USA

Thomas Lutz, Ph.D. (2016)
University of Zurich, Switzerland

Julie Mennella, Ph.D. (2016)
Monell Chemical Senses Center, USA

Kevin Myers, Ph.D. (2016)
Bucknell University, USA

Helen Raybould, Ph.D. (2016)
UC Davis School of Veterinary Medicine, USA

Diana Williams, Ph.D. (2016)
Florida State University, USA

CORPORATE PREMIER

Mars, Incorporated
Based in McLean, Virginia, Mars, Incorporated is private, family-owned food company, with annual sales of more than $33 billion. Based on the objective of a "mutuality of benefits" for all stakeholders, Mars has 6 segments - Petcare, Chocolate, Wrigley, Food, Drinks and Symbioscience and employs more than 75,000 Associates worldwide.

Novo Nordisk
Novo Nordisk is a global healthcare company with more than 90 years of innovation and leadership in diabetes care. Additionally, we continue to invest in developing treatments for obesity, haemophilia and growth disorders. Headquartered in Denmark, Novo Nordisk employs approximately 39,000 people in 75 countries and markets its products in more than 180 countries.

PepsiCo, Inc.
PepsiCo is one of the world's leading food and beverage companies. A more than $65 billion global powerhouse, PepsiCo makes hundreds of foods and beverages ranging from treats to healthy eats that are loved throughout the world, including Quaker, Tropicana, Gatorade, Frito-Lay and Pepsi-Cola.

Research Diets, Inc.
Research Diets, Inc. formulates and produces purified OpenSource Diets® for laboratory animals. Custom diets shipped in 5-7 days. The BioDAQ® Food and Liquid Intake Monitor features spill-reducing hoppers, mounts to home cage, records the time, duration, amount of each meal automatically. Automated gate is programmable by time or amount consumed.

CORPORATE BENEFACTOR

Elsevier
Elsevier is a world-leading provider of information solutions that enhance the performance of science, health, and technology professionals, empowering them to make better decisions, deliver better care, and sometimes make groundbreaking discoveries that advance the boundaries of knowledge and human progress.

CORPORATE SPONSORS

DSI
DSI is a pioneering biomedical research company focused on preclinical systems physiology and pharmacology. The global leader in physiologic monitoring, DSI offers telemetry, instrumentation, software and services that facilitate accelerated, well-informed, drug therapy and development decisions.

Sable Systems International
Metabolic measurement systems for preclinical phenotyping and room Calorimetry. Sable's Promethion™ platform is the new standard for accuracy, workflow efficiency, and best-practice data management. Auto-baselined, synchronized monitoring of MR, RER/RQ, food/water uptake, and control for paired, yoked, or timed feeding. Total activity, wheel and/or beambreak array capture position and displacement.

Stoelting
Stoelting has been an innovator in producing equipment for pre-clinical research equipment since 1886. We proudly offer a complete line of behavioral testing equipment, anchored by ANY-maze™; an easy to use video tracking system for automated measurements of many types of behavioral paradigms. Please visit ANY-maze.com for more details.

TSE
TSE Systems is a leading global manufacturer for Metabolic & Behavioral Phenotyping and screening systems . The TSE PhenoMaster® offers a modular solution for state-of-the-art automated metabolic and behavioral monitoring of rodents within the home cage. Metabolism: •Push & Pull Calorimetry, •Urine & Feces Quantification, •Drinking, Feeding with access control, Body Weight Monitoring. Behavior & Exercise: •Home Cage Activity, •Running Wheel Activity, •Motorskill Testing, •Operant Conditioning, learning/memory. Physiology monitoring: •Telemetry (Blood Pressure, Heart Rate, ECG, EEG, Activity, Temperature).

INSTRUCTIONS TO ORAL PRESENTERS

PRESENTATION UPLOAD
Speakers are asked to bring their presentations to the registration desk on a USB storage device one day prior to their presentation. **You may also upload your presentation using the link sent to you via email.** Please be sure to upload your presentation no later than 24 hours before the start of your session.

If your talk contains multimedia files, please be sure to bring those files to the conference in case they have to be re-inserted into your presentation.

AT THE MEETING
Speakers should arrive at least 15 minutes prior to their session to introduce themselves to the session chair. DO NOT BRING YOUR LAPTOP to the session room. A/V staff will not be able to connect your laptop.

A NOTE TO MAC USERS
Mac users should not use “drag-and-drop” to insert pictures and video files. Most problems, such as the infamous “red x” are the result of this. Using the “INSERT” command from the menu will virtually eliminate these issues. The PowerPoint file must have the .ppt or .pptx suffix to be accepted. As noted above, QuickTime movies (.MOV) must be converted to a PC compatible format before submission.

INSTRUCTIONS TO POSTER PRESENTERS

As a poster presenter you have the following responsibilities:

1. Find your assigned poster session and number using either the author index or online mobile program.

Please note there are three poster sessions:

Poster Session 1
Wednesday, July 8: 5:30 PM - 7:30 PM

Poster Session 2
Thursday, July 9: 6:00 PM - 8:00 PM

Poster Session 3
Friday, July 10: 6:00 PM - 8:00 PM

2. All posters must be mounted by noon on the day of your poster presentation. Poster display boards will be available for mounting of posters beginning at 8:00 AM on the day of your presentation.

3. Be present at your poster during the poster session to present your work. Posters must remain on display until the end of your poster session.

4. Posters must be removed by 8:00 AM the morning following your poster presentation.

Please visit the Registration Desk if you have any questions regarding your presentation.

AWARD RECIPIENTS

DISTINGUISHED CAREER AWARD

EDWARD M. STRICKER, PH.D.
Dean, University Honors College
Bernice L. & Morton S. Lerner Chair
University Professor of Neuroscience
University of Pittsburgh

ALAN N. EPSTEIN RESEARCH AWARD

DANA SMALL, PH.D.
Professor, Department of Psychiatry
Yale School of Medicine
Deputy Director, The John B Pierce Laboratory

HOEBEL PRIZE FOR CREATIVITY

BARBARA J. ROLLS, PH.D.
The Pennsylvania State University

NEW INVESTIGATOR TRAVEL AWARDEES (NITA)

Stephanie Fearnbach
Pennsylvania State University, USA

Emily Feig
Drexel University, USA

Sara Hargrave
American University, USA

Ted Hsu
University of Southern California, USA

Caroline Johnson
University of Southern California, USA

Sara Keefer
Boston College, USA

Samantha Kling
The Pennsylvania State University, USA

Nils Kroemer
The John B. Pierce Laboratory and Yale University, USA

Zhi Yi Ong
University of Pennsylvania, USA

Menna Price
Swansea University, UK

Amy Reichelt
University of New South Wales, Australia

David Reiner
University of Pennsylvania, USA

Merel Rijnsburger
AMC Amsterdam

Lin Song
Johns Hopkins University, USA

Anastasia Zink
University of Minnesota, USA

SUPPORTED IN PART BY NOVO NORDISK

TUESDAY PROGRAM SUMMARY

Opening Greetings
4:45 - 5:00 PM (Grand 1)

MARS Lecture 1
5:00 - 6:00 PM (Grand 1)

Opening Reception
6:00 - 8:00 PM (15 Fifty Restaurant)

WEDNESDAY PROGRAM SUMMARY

Symposium 1: Presidential Symposium: In Honor of Harry Kissileff: Approaches to Understanding Healthy and Disordered Eating
8:30 - 10:30 AM (Grand 1)

Break
10:30 - 11:00 AM (South Convention Lobby)

Oral 1: Oral Sensory Processes
11:00 - 1:00 PM (Grand 1)

Oral 2: Gut to Brain and Back Again
11:00 - 1:00 PM (Grand 2)

Publishing Workshop
1:30 - 3:00 PM (Grand 2)

Symposium 2: Nutraceuticals: The Good, the Bad and the Ugly
3:30 - 5:30 PM (Grand 1)

Oral 3: Disinhibition, Impulsivity and Restrained Eating
3:30 - 5:30 PM (Grand 2)

Poster Session I
5:30 - 7:30 PM (South Convention Lobby)

THURSDAY PROGRAM SUMMARY

NITA Symposium
8:30 - 10:30 AM (Grand 1)

Break
10:30 - 11:00 AM (South Convention Lobby)

MARS Lecture 2
11:00 - 12:00 PM (Grand 1)

Symposium 3: Social Factors as Contributors to Obesity
1:30 - 3:30 PM (Grand 1)

Oral 4: Limbic Circuits
1:30 - 3:30 PM (Grand 2)

Break
3:30 - 4:00 PM (South Convention Lobby)

Symposium 4: Cognitive Control of Meal Size
4:00 - 6:00 PM (Grand 1)

Oral 5: Development and Eating: Bidirectional Influences
4:00 - 6:00 PM (Grand 2)

Poster Session II
6:00 - 8:00 PM (South Convention Lobby)

FRIDAY PROGRAM SUMMARY

Symposium 5:The Mile High Club: Cannabis and Endocanabinoid Effects on Ingestive Behavior
8:30 - 10:30 AM (Grand 1)

Oral 6: Portion and Meal Control
8:30 - 10:30 AM (Grand 2)

Break
10:30 - 11:00 AM (South Convention Lobby)

MARS Lecture 3
11:00 - 12:00 PM (Grand 1)

Career Development Workshop
12:15 - 1:45 PM (Grand 2)

Symposium 6: Pharmacotherapies for Metabolic Disorders: Current Status and Future Directions
4:00 - 6:00 PM (Grand 1)

Oral 7: Learning and Conditioning
4:00 - 6:00 PM (Grand 2)

Poster Session III
6:00 - 8:00 PM (South Convention Lobby)

SATURDAY PROGRAM SUMMARY

Symposium 7: Understanding Food Choice
8:30 - 10:30 AM (Grand 1)

Oral 8: Nutrient Effects on Brain Function
8:30 - 10:30 AM (Grand 2)

Break
10:30 - 11:00 AM (South Convention Lobby)

MARS Lecture 4
11:00 - 12:00 PM (Grand 1)

Awards Session
2:30 - 4:15 PM (Grand 1)

Business Meeting
4:15 - 5:15 PM (Grand 1)

Banquet
7:00 - 12:00 AM (Grand 1)

TUESDAY, JULY 7

WELCOME

4:45 - 5:00 PM **Grand 1**

OPENING GREETINGS - ALAN WATTS, PRESIDENT

MARS LECTURE

5:00 - 6:00 PM **Grand 1**

Chair: Michael Lowe

5:00
1 **Eating Disorders, Gene-Environment Interactions and the Epigenome: Roles of Nutritional Status Stress Exposures**
HOWARD STEIGER[1,2]
[1]Douglas Institute, Montreal, QC, Canada, [2]McGill University, Montreal, QC, Canada

SOCIAL EVENT

6:00 - 8:00 PM **15 Fifty Restaurant (Lobby)**

OPENING RECEPTION

WEDNESDAY, JULY 8

SYMPOSIUM

8:30 - 10:30 AM **Grand 1**

SYMPOSIUM 1: PRESIDENTIAL SYMPOSIUM IN HONOR OF HARRY KISSILEFF: APPROACHES TO UNDERSTANDING HEALTHY AND DISORDERED EATING

Chair: Alan Watts

8:30
2 **"But what is the mechanism?" Beyond phenomena in the study of human eating behavior**
KL KELLER, SN FEARNBACH, LK ENGLISH
The Pennsylvania State University, University Park, PA, USA

9:00
3 **Gastrointestinal (GI) contributions to energy intake and GI symptoms in humans**
C FEINLE-BISSET
NHMRC Centre of Research Excellence in Translating Nutritional Science to Good Health & University of Adelaide Discipline of Medicine, Adelaide, Australia

9:30
4 **Individual differences in flavour-based learning: a microstructural analysis.**
MR YEOMANS
School of Psychology, University of Sussex, Brighton, United Kingdom

10:00
5 **Primary Cilium in the Control of Body Weight.**
RL LEIBEL, L WANG, G STRATIGOPOULOS
Columbia University, New York, NY, USA

WEDNESDAY, JULY 8

BREAK

10:30 - 11:00 AM — **South Convention Lobby**

ORAL SESSION

11:00 - 1:00 PM — **Grand 1**

ORAL 1: ORAL SENSORY PROCESSES

Chair: Ann Marie Torregrossa

11:00 6 **When a calorie is not a calorie: Decoupling sweet taste from caloric load disrupts metabolic response**
RK BABBS[1,2], BP PATEL[1,2], NB KROEMER[1,2], DM SMALL[1,2]
[1]John B. Pierce Laboratory, New Haven, CT, USA, [2]Yale School of Medicine, New Haven, CT, USA

11:15 7 **Rats learn to prefer the orosensory properties of glucose over those of fructose**
LA SCHIER, AC SPECTOR
Dept of Psychology and Program in Neuroscience, Florida State Univ, Tallahassee, FL, USA

11:30 8 **Altered flavor-nutrient conditioning in obesity**
G COPPIN[1,2,3], AE WRAY[1,2], MG VELDHUIZEN[1,2], IE DE ARAUJO[1,2], DM SMALL[1,2,3]
[1]1The John B. Pierce Laboratory, New Haven, CT, USA, [2]Yale University, New Haven, CT, USA, [3]Max Planck Institute for Metabolism Research, Cologne, Germany

11:45 9 **The taste of P**
MG TORDOFF, TR ALEMAN
Monell Chemical Senses Center, Philadelphia, PA, USA

12:00 10 **Glucose vs saccharin: Tests of the sweet-calories hypothesis**
RA BOAKES[1], WR BATSELL[2], MD KENDIG[1], SI MARTIRE[1], KB ROONEY[1]
[1]University of Sydney, Sydney, Australia, [2]Kalamazoo College, Kalamazoo, MI, USA

12:15 11 **Oral Stimulation with Sucralose Reveals Differential Patterns of FLI in the Rostral NTS of Sucralose-Preferring and –Avoiding Rats**
GC LONEY, LA ECKEL
Florida State University, Tallahassee, FL, USA

12:30 12 **Nerve damage obscures links between oral anatomy and sensation that guide dietary health**
DJ SNYDER[1], LM BARTOSHUK[2]
[1]Occupational Science, University of Southern California, Los Angeles, CA, USA, [2]Food Science & Human Nutrition, University of Florida, Gainesville, FL, USA

12:45 13 **Variation at a common polymorphism in the CD36 gene is associated with liking of low-fat dairy and parental perception of child weight.**
S ADISE, AC CLOSE, R BLOOM, KL KELLER
Pennsylvania State University, Department of Nutritional Sciences, University Park, PA, USA

WEDNESDAY, JULY 8

ORAL SESSION

11:00 - 1:00 PM **Grand 2**

ORAL 2: GUT TO BRAIN AND BACK AGAIN

Chair: Rick Rodgers

11:00 14 **Loss of cocaine- and amphetamine-regulated transcript in vagal afferent neurons drives hyperphagia and weight gain**
G DE LARTIGUE[1,3], JP KRIEGER[2], SJ SHIN[2], W LANGHANS[2], HE RAYBOULD[3]
[1]Yale University/ The John B Pierce Lab, New Haven, CT, USA, [2]ETH Zurich, Schwerzenbach, Switzerland, [3]University of California, Davis, CA, USA

11:15 15 **Gastric vagal afferents are a food entrainable circadian satiety signal**
S KENTISH[1,2], G HATZINIKOLAS[1], H LI[1], C FRISBY[1], G WITTERT[1,2], A PAGE[1,2]
[1]University of Adelaide, Adelaide, Australia, [2]SAHMRI, Adelaide, Australia

11:30 16 **Endogenous GLP-1 receptor signaling in the nucleus tractus solitarius is required for energy balance control**
AL ALHADEFF, EG MIETLICKI-BAASE, BD MERGLER, HJ GRILL, MR HAYES
University of Pennsylvania, Philadelphia, PA, USA

11:45 17 **Central β3-adrenergic activation is sufficient to induce potent anorexia, weight loss and white fat browning**
JE RICHARD, P MICALLEF, B CHANCLON, IW ASTERHOLM, KP SKIBICKA
Gothenburg University, Gothenburg, Sweden

12:00 18 **Effects of viscosity and nutrient load on gastric emptying as determined by MRI**
G CAMPS[1], M MARS[1], K DE GRAAF[1], PAM SMEETS[1,2]
[1]Wageningen University, Wageningen, Netherlands, [2]Image Sciences Institute, University Medical Center Utrecht, Utrecht, Netherlands

12:15 19 **Olanzapine reduces the excitability of DMV neurons, including a subset of stomach- and liver-related neurons**
IJ ANWAR, K MIYATA, A ZSOMBOK
Department of Physiology, Tulane University, New Orleans, LA, USA

12:30 20 **Indirect effect of apelin on gastric vagal afferent satiety signaling.**
H LI[1,2], SJ KENTISH[1,2], CL FRISBY[1,2], GA WITTERT[1,2], AJ PAGE[1,2]
[1]University of Adelaide, Adelaide, Australia, [2]SAHMRI, Adelaide, Australia

12:45 21 **Cocaine- and amphetamine-regulated transcript (CART) mediates the satiating effects of glucagon-like peptide-1 (GLP-1) in rat vagal afferent neurons**
JP KRIEGER[1], M ARNOLD[1], KG PETTERSEN[1], W LANGHANS[1], G DE LARTIGUE[2], SJ LEE[1]
[1]Physiology and Behavior Laboratory, ETH Zürich, ZURICH, Switzerland, [2]John B. Pierce Laboratory, NEW HAVEN, CT, USA

WEDNESDAY, JULY 8

WORKSHOP

1:30 - 3:00 PM **Grand 2**

PUBLISHING WORKSHOP

Organizer: Toby Charkin

SYMPOSIUM

3:30 - 5:30 PM **Grand 1**

SYMPOSIUM 2: NUTRACEUTICALS: THE GOOD, THE BAD AND THE UGLY

Chair: Dana Small

3:30 22 **Nutraceuticals for body-weight management: the role of green tea catechins**
M. S WESTERTERP-PLANTENGA
Maastricht University, Maastricht, Netherlands

4:00 23 **Promoting Metabolic Health and Lifespan by Increasing Oxidative Stress**
M RISTOW
ETH, Zurich, Switzerland

4:30 24 **A role for Vitamin D3 signaling in obesity and dopamine-related behaviors**
JR TRINKO[1], BB LAND[1], WB SOLECKI[1], RJ WICKHAM[1], LA TELLEZ[1,2], JG MALDONADO-AVILES[1], IE DE ARAUJO[1,2], NA ADDY[1], RJ DILEONE[1]
[1]Dept. of Psychiatry, Yale University School of Medicine, New Haven, CT, USA, [2]The John B. Pierce Laboratory, New Haven, CT, USA

5:00 25 **Botanical extracts: in vitro calcium imaging**
G HERMANN, K VANCE, J COLLIER, S BURKE, R ROGERS
PBRC, Baton Rouge, LA, USA

WEDNESDAY, JULY 8

ORAL SESSION

3:30 - 5:30 PM **Grand 2**

ORAL 3: DISINHIBITION, IMPULSIVITY AND RESTRAINED EATING

Chair: Kerri Boutelle

3:30 26 **Subjective social status modulates evaluation and intake of high calorie foods**
BK CHEON[1,2], Y-Y HONG[3,4]
[1]Division of Psychology, Nanyang Technological University, Singapore, Singapore, [2]Clinical Nutrition Research Center, Singapore Institute for Clinical Sciences, Singapore, Singapore, [3]School of Business, Nanyang Technological University, Singapore, Singapore, [4]School of Psychology, Beijing Normal University, Beijing, China

3:45 27 **Steep temporal discounting is associated with poor diet quality in humans**
BM APPELHANS[1], CC TANGNEY[1], SA FRENCH[2], LM POWELL[3], H LI[1]
[1]Rush University Medical Center, Chicago, IL, USA, [2]University of Minnesota, Minneapolis, MN, USA, [3]University of Illinois at Chicago, Chicago, IL, USA

4:00 28 **Brain network activity during simulation of dietary restraint is associated with real food choice in a buffet meal**
G MAGEROWSKI*, C PEñA-GóMEZ*, K PAPADOPOULOS, L AMREIN, M ALONSO-ALONSO
BIDMC. Harvard Medical School, Boston, MA, USA

4:15 29 **Altered response to stress and sucrose licking microstructure in binge eating prone female rats**
J CALVEZ, A MITRA, C DE AVILA, E TIMOFEEVA
CRIUCPQ, Faculty of Medicine, Department of Psychiatry and Neuroscience, Laval University, Quebec, QC, Canada

4:30 30 **Disinhibition is associated with the pattern of weight loss and regain in a 1-year trial of portion control strategies**
BL JAMES, LS ROE, BJ ROLLS
Pennsylvania State University, University Park, PA, USA

4:45 31 **Pressure to be thin predicts body weight and fat gain in adolescence**
C SUELTER[1], L SHOMAKER[1], M SHANKS[1], N SCHVEY[2,3], N KELLY[1,2,3], K PICKWORTH[3], M TANOFSKY-KRAFF[2,3], J YANOVSKI[3]
[1]CSU, Fort Collins, CO, USA, [2]USUHS, Bethesda, MD, USA, [3]NIH, Bethesda, MD, USA

5:00 32 **Use of financial incentives for the purchase of healthy groceries: A randomized pilot study**
TV KRAL[1], AL BANNON [1], RH MOORE[2]
[1]University of Pennsylvania, Philadelphia, PA, USA, [2]North Carolina State University, Raleigh, NC, USA

5:15 33 **Hedonic hunger predicts left-sided activity and restrained eating predicts right-sided activity in the prefrontal cortex**
SR WINTER, J KOUNIOS, EH FEIG, B ERICKSON, S BERKOWITZ, MR LOWE
Drexel University, Philadelphia, PA, USA

WEDNESDAY, JULY 8

POSTERS

5:30 - 7:30 PM **South Convention Lobby**

POSTER SESSION I

1 - 11	**Sex and sex differences**
12 - 20	**Disordered eating**
21 - 25	**Hindbrain**
26 - 30	**Methods**
31 - 34	**Water and fluid intake**
35 - 40	**Hypothalamus**

P1 34 **Membrane-initiated estradiol signaling transiently affects food intake in female rats.**
MJ BUTLER, R HILDEBRANDT, A-M TORREGROSSA, SB OGDEN, LA ECKEL
Program in Neuroscience, Florida State University, Tallahassee, FL, USA

P2 35 **Blunting of HPA stress responses by sucrose varies between male and female rats**
AE EGAN, AMK THOMPSON, D BUESING, S FOURMAN, AEB PACKARD, MB SOLOMON, YM ULRICH-LAI
U. of Cincinnati, Cincinnati, OH, USA

P3 36 **Protein supplementation enhances satiating effiiency in women but not men**
M HERZOG[1], S DONNELLY[1], E OZBARDAKCI[1], E DHURANDHAR[2], D ALLISON[2], H KISSILEFF[1]
[1]Columbia University, New York, NY, USA, [2]University of Alabama, Birmingham, AL, USA

P4 37 **Morphine-induced suppression of saccharin intake: Effects of gender and interstimulus interval**
CB JENNEY, PS GRIGSON
PennState College of Medicine, Hershey, PA, USA

P5 38 **Brain-Derived Neurotrophic Factor Increased Energy Expenditure of Estradiol-Treated Ovariectomized Rats via Enhancing Sympathetic Activity**
X LIU[1], M SHEN[1], ZHU Z[1], CK GAVINI[2], CM NOVAK[2], H SHI[1]
[1]Department of Biology, Miami University, Oxford, OH, USA, [2]Department of Biological Sciences, Kent State University, Kent, OH, USA

P6 39 **Estradiol modulates the anorexic response to central GLP-1**
CB MASKE, LA ECKEL, DL WILLIAMS
Psychology Department & Program in Neuroscience, Florida State University, Tallahassee, FL, USA

P7 40 **AM4113 decreases food intake in female rats with greater behavioral specificity than rimonabant.**
SB OGDEN[1], MJ BUTLER[1], M MALAMAS[2], A MAKRIYANNIS[2], LA ECKEL[1]
[1]Prog. in Neuroscience, Florida State University, Tallahassee, FL, USA, [2]Center for Drug Discovery, Northeastern University, Boston, MA, USA

P8 41 **Sex differences in angiotensin II-induced behavioral desensitization**
J SANTOLLO, D DANIELS
University at Buffalo, Buffalo, NY, USA

P9 42 **Estrogen effects on oxytocin in the forebrain and hindbrain of ovariectomized rats: Implications for eating behavior?**
DK SLOAN, AG TORRES, KS CURTIS
Oklahoma State University - Center for Health Sciences, Tulsa, OK, USA

P10 43 **Reproducibility and validity of satiety measures in healthy women**
AJ TUCKER, S HEAP, J INGRAM, M LAW, AJ WRIGHT
University of Guelph, Guelph, ON, Canada

P11 44 **Stress effects on taste preferences in male and female Rats**
M VENKATESHA[2], A MARONEY[3], CJ RAYMOND[1], DK SLOAN[1], KS CURTIS[1]
[1]Oklahoma State University - Center for Health Sciences, Tulsa, OK, USA, [2]Union High School, Tulsa, OK, USA, [3]Jenks High School, Tulsa, OK, USA

P12 45 **Rats vulnerable to weight loss during activity-based anorexia lack increased expression of Agrp and Orexin in response to starvation.**
GJ BOERSMA, NC LIANG, JD ALBERTZ, LA MOODY, S ARYAL, TH MORAN, KL TAMASHIRO
Psychiatry & Behavioral Sciences, Johns Hopkins Univ., Baltimore, MD, USA

P13 46 **Satiation and elective anorexia compared between ratio and interval schedules in mice**
M CERVANTEZ, KL ROBERTSON, NE ROWLAND
University of Florida, Gainesville, FL, USA

P14 47 **Role of Anxiety in Inhibitory Control Deficits in Eating Disorders**
AV ELY, CE WIERENGA, WH KAYE
University of California, San Diego, San Diego, CA, USA

P15 48 **The Unique Contributions of Episode Size and Loss of Control Eating in Purging Syndromes**
K J FORNEY[1], LB BODELL[1], A HAEDT-MATT[2], PK KEEL[1]
[1]Florida State University, Tallahassee, FL, USA, [2]Illinois Institute of Technology, Chicago, IL, USA

P16 49 **Effects of Idealized Media Images on Food Intake and Appearance Anxiety**
A MITRA, A.C. THOMPSON
St. Catherine University, St. Paul, MN, USA

P17 50 **Relationships between disordered eating attitudes and executive functioning in an overweight/obese treatment seeking sample**
TM MONREAL[1], SH HIGGS[2], KB BOUTELLE[1], JL LIANG[1]
[1]University of California at San Diego, La Jolla, CA, USA, [2]University of Birmingham, Birmingham, United Kingdom

P18 51 **The association of maternal anxiety and depressive symptoms with infant appetitive traits at 3 months and 12 months of age.**
PL QUAH
Singapore Institute of Clinical Sciences, Singapore, Singapore

P19 52 **Binge-like high-fat diet intake enhances preference and motivation for highly palatable food.**
S SIROHI, A VANCLEEF, C KOWALSKI, A MCGREGOR, R MCLAUGHLIN, JF DAVIS
Department of Integrative Physiology & Neuroscience, College of Veterinary Medicine, Washington State University, Pullman, WA, USA

P20 53 **The relationship between obesity, quality of life, and psychopathology in primary care settings**
DH SUTTON
N. Arizona Univ., Flagstaff, AZ, USA

P21 54 **Selective activation of A1/C1 catecholamine neurons by DREADD enhances food intake in rats**
A-J LI, Q. WANG, S. RITTER
Washington State University, Pullman, WA, USA

P22 55 **Variation of caloric intake and dorsovagal complex synapsin phosphorylation in rats fed high fat diet.**
JS NASSE, RC RITTER
Washington State University, Pullman, WA, USA

P23 56 **Astrocytes in the hindbrain trigger counterregulation**
R ROGERS[1], S RITTER[2], D MCDOUGAL[1], G HERMANN[1]
[1]PBRC, Baton Rouge, LA, USA, [2]WSU, Pullmann, WA, USA

P24 57 **Forebrain Catecholaminergic Projections Restrain High Calorie Diet-Associated Hyperphagia and Adiposity**
ALAN WATTS, ANNE JOKIAHO
Dept. of Biological Sciences, USC, Los Angeles, CA, USA

P25 58 **Hindbrain prolactin-releasing peptide (PrRP) neurons are not closely linked to motor circuits controlling intrinsic tongue muscles**
H ZHENG, L. RINAMAN
Univ. Pittsburgh, Pittsburgh, PA, USA

P26 59 **An open source operant conditioning chamber**
K DEVARAKONDA, KP NGUYEN, AV KRAVITZ
National Institute of Diabetes and Digestive and Kidney Diseases, Diabetes, Endocrinology, and Obesity Branch, Bethesda, MD, USA

P27 60 **Human Bite-Count Variability: Limitations for Measuring Energy Intake**
J GUO, E PREUSCHL, L HOWARD, T BEMIS, S GOODWIN, L YANNAI, KD HALL
NIDDK/NIH, Bethesda, MD, USA

P28 61 **Integrating neurocognitive evaluation during a meal: a feasibility study**
G MAGEROWSKI, M ALONSO-ALONSO
BIDMC, Harvard Medical School, Boston, MA, USA

P29 62 **The 'smart dining table': a prototype for automatic evaluation of eating behavior during a meal**
S MANTON, G MAGEROWSKI, M ALONSO-ALONSO
BIDMC, Harvard Medical School, Boston, MA, USA

P30 63 **Engineering a system to monitor home cage feeding behavior in rodents**
KP NGUYEN[1], AV KRAVITZ[1,2]
[1]National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, Bethesda, MD, USA, [2]National Institute on Drug Abuse, National Institutes of Health, Bethesda, MD, USA

P31 64 **Seasonal variation in salt appetite**
A AGBARIA, N MAHAJNA, M NAHAS, F TRUDI, R YAACOBI, G ZOHAR, M LESHEM
Department of Psychology, The University of Haifa, Haifa, Israel

P32 65 **Fluid balance challenges influence Glucagon-like peptide-1-associated gene expression both peripherally and centrally**
NJ MCKAY, DL GALANTE, D DANIELS
University at Buffalo, Buffalo, NY, USA

P33 66 **Effects of age and ovariectomy on thirst and salt appetite in rats.**
RL THUNHORST[1], KS CURTIS[2], T BELTZ[1], B XUE[1], AK JOHNSON[1]
[1]Department of Psychology and the Cardiovascular Center, University of Iowa, Iowa City, IA, USA, [2]Department of Pharmacology and Physiology, Oklahoma State University-Center for Health Sciences, Tulsa, OK, USA

P34 67 **Water intake and central activation stimulated by Isoproterenol in ovariectomized young and aged female rats**
SL TOAL[1], T BELTZ[2], B XUE[2], AK JOHNSON[2], RL THUNHORST[2], KS CURTIS[1]
[1]Oklahoma State University - Center for Health Sciences, Tulsa, OK, USA, [2]University of Iowa, Iowa City, IA, USA

P35 68 **TRPV1 expressing hypothalamic neurons control glucose metabolism**
IJ ANWAR[1], K MIYATA[1], CL ENIX[1], CA NUGENT[2], SD SAGASER[2], AV DERBENEV[1], A ZSOMBOK[1]
[1]Department of Physiology, Tulane University, New Orleans, LA, USA, [2]Neuroscience Program, Tulane University, New Orleans, LA, USA

P36 69 **Neuropeptide Y in the lateral hypothalamus specifically increases carbohydrate intake when rats are fed a free-choice high fat high sugar diet**
MCR GUMBS, L EGGELS, SE LA FLEUR
AMC-UvA, Amsterdam, Netherlands

P37 70 **Role of hypothalamic microglia in synaptic organization onto proopiomelanocortin neuron for regulation of energy balance**
JG KIM[1], IS NAM-GOONG[2], SH JIN[3], BJ LEE[3]
[1]Division of Life Sciences, Incheon National University, Incheon, South Korea, [2]Department of Internal Medicine, Ulsan University Hospital, Ulsan, South Korea, [3]Department of Biological Sciences, University of Ulsan, Ulsan, South Korea

P38 71 **Amylin-IL-6 Enhancement of VMH Leptin Signaling**
B.E. LEVIN[1,2], M. JOHNSON[2], L. LARSEN[2], A.A. DUNN-MEYNELL[1], C. BOYLE[3], T.A. LUTZ[3], M HAYES[4], C LE FOLL[1,3]
[1]V A Medical Center, E. Orange, NJ, USA, [2]Rutgers, NJ Medical School, Newark, NJ, USA, [3]Inst. Veterinary Physiology, Univ Zurich, Zurich, Switzerland, [4]University of Pennsylvania, Philadelphia, PA, USA

P39 72 **Effect of tonicity-responsive binding protein on the hypothalamic regulation of energy balance**
IS NAM-GOONG[1], JG KIM[2], HR KIM[3], BJ LEE[3]
[1]Department of Internal Medicine, Ulsan University Hospital, Ulsan, South Korea, [2]Division of Life Sciences, Incheon National University, Incheon, South Korea, [3]Department of Biological Sciences, University of Ulsan, Ulsan, South Korea

P40 73 **Effects of offering a vegetable pure, diluted or hidden on toddlers' intake**
G JAGER, V DE WILD, C DE GRAAF
Wageningen University, Wageningen, Netherlands

THURSDAY, JULY 9

SYMPOSIUM

8:30 - 10:30 AM **Grand 1**

NITA SYMPOSIUM

Chair: Suzanne Higgs

8:30 74 **Orexin neuron activation drives spontaneous physical activity and promotes healthy body weight.**
AN ZINK[1], CJ BILLINGTON[2], CM KOTZ[1,2]
[1]Dept. of Food Science and Nutrition, U of MN, St. Paul, MN, USA, [2]VA Medical Center, Minneapolis, MN, USA

8:45 75 **Promoting consideration of long- versus short-term goals reduces impulsivity and snack intake**
MJ PRICE[1], S HIGGS[2], M LEE[1]
[1]Swansea University, Swansea, United Kingdom, [2]University of Birmingham, Birmingham, United Kingdom

9:00 76 **Does the energy density or portion size of milk affect preschool children's intake at a meal?**
SMR KLING, LS ROE, BJ ROLLS
The Pennsylvania State University, University Park, PA, USA

9:15 77 **Glucagon-like peptide-1 receptor signaling in anterior and posterior regions of the paraventricular thalamic nucleus differentially affects feeding behavior**
ZY ONG, HJ GRILL
University of Pennsylvania, Philadelphia, PA, USA

9:30 78 **Dieting history and satiety interact to affect food cue responsivity: an ERP study**
EH FEIG, S WINTER, S BERKOWITZ, B ERIKSON, J KOUNIOS, M LOWE
Drexel University, Philadlephia, PA, USA

9:45 79 **A novel hippocampal-hypothalamic neural circuit mediating appetite through ghrelin receptor signaling**
TM HSU, JD HAHN, VR KONANUR, SE KANOSKI
University of Southern California, Los Angeles, CA, USA

10:00 80 **Establishing the Mechanisms that Control Neuroendocrine Corticotropin Releasing Hormone Neuronal Activity**
CS JOHNSON, AG WATTS
University of Southern California, Los Angeles, CA, USA

10:15 81 **Differential effects of glucose and glucose plus lipid infusions towards the brain on peripheral glucose metabolism and hypothalamic gene expression.**
M RIJNSBURGER[1], L EGGELS[1], N VAN LOON[1], J CASTEL[2], C MAGNAN[2], A KALSBEEK[1], MJ SERLIE[1], S LUQUET[2], SE LA FLEUR[1]
[1]AMC-UvA, Amsterdam, Netherlands, [2]Univ Paris-7, Paris, France

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THURSDAY, JULY 9

BREAK

10:30 - 11:00 AM — **South Convention Lobby**

MARS LECTURE

11:00 - 12:00 PM — **Grand 1**

Chair: Marion Hetherington

11:00 82 **A Cognitive Profile of Obesity and its Translation Into New Interventions**
ANITA JANSEN
Maastricht University, Maastricht, Netherlands

SYMPOSIUM

1:30 - 3:30 PM — **Grand 1**

SYMPOSIUM 3: SOCIAL FACTORS AS CONTRIBUTORS TO OBESITY

Chair: Carol Shively

1:30 83 **Adverse social experience sustains emotional feeding in females**
ME WILSON
Emory University, Atlanta, GA, USA

2:00 84 **ASSOCIATION AMONG SOCIAL STATUS, EATING BEHAVIOR, AND METABOLIC EFFICIENCY**
E DHURANDHAR[1], SS BHOYAR[1], M CARDEL[2], CK MARTIN[3], DB ALLISON[1]. *[1]University of Alabama at Birmingham, [2]University of Colorado Anschutz Medical Campus, [3]Pennington Biomedical Research Center*

2:30 85 **The Influence of Experimentally Manipulated Social Status on Eating Behavior: A Pilot Study**
M CARDEL[1], A DULIN-KEITA[2], EJ DHURANDHAR[3], K HARRIS JACKSON[1], J BECK[1], A TOMCZIK[1], JC PETERS[1], SL JOHNSON[1], JO HILL[1], DB ALLISON[3]
[1]University of Colorado Anschutz Medical Campus, Aurora, CO, USA, [2]Brown University, Providence, RI, USA, [3]University of Alabama at Birmingham, Birmingham, AL, USA

3:00 86 **Stress, Depression and Obesity: The Ghrelin Connection**
JM ZIGMAN
Departments of Internal Medicine and Psychiatry, UT Southwestern Medical Center, Dallas, TX, USA

THURSDAY, JULY 9

ORAL SESSION

1:30 - 3:30 PM **Grand 2**

ORAL 4: LIMBIC CIRCUITS

Chair: Nicholas Bello

1:30 87 **Unraveling the role of dopamine neurons in sensing energy balance and in feeding**
RA ADAN, R VAN ZESSEN, R PANDIT, L BOEKHOUDT, G VAN DER PLASSE
Brain Center Rudolf Magnus, Utrecht, Netherlands

1:45 88 **Intra-VTA insulin decreases nucleus accumbens dopamine release in vivo**
L NAEF[1], J HUANG[2], C LEE[2], D MEBEL[2], SL BORGLAND[1]
[1]University of Calgary, Calgary, AB, Canada, [2]University of British Columbia, Vancouver, BC, Canada

2:00 89 **BMI positively correlates with amygdalo-hypothalamic effective connectivity in the absence of hunger**
X SUN[1,2], MG VELDHUIZEN[1,2], AE BABBS[1], IE DE ARAUJO[1,2], DR GITELMAN[3], DM SMALL[1,2]
[1]The J.B. Pierce Lab, New Haven, CT, USA, [2]Yale Univ., New Haven, CT, USA, [3]Northwestern Univ., Chicago, IL, USA

2:15 90 **Distinct relationships of the chemokine CXCL12 to high-fat diet intake, emotional behaviors, and hypothalamic neuropeptide systems**
K POON, JR BARSON, HT HO, SF LEIBOWITZ
The Rockefeller University, New York, NY, USA

2:30 91 **Nicotine differentially impacts body weight gain and reinforcement in obese-prone and –resistant rats**
LE RUPPRECHT, TT SMITH, EC DONNY, AF SVED
University of Pittsburgh, Pittsburgh, PA, USA

2:45 92 **Portion size area affects expected anxiety responses to food cues.**
M. HERZOG[1], C. DOUGLAS[1], J.M. BRUNSTROM[2], K. HALMI[3], H. KISSILEFF[1]
[1]Columbia University Medical Center, New York, NY, USA, [2]University of Bristol, Bristol, United Kingdom, [3]Weill Cornell Medical College, White Plains, NY, USA

3:00 93 **Central GLP-1 signaling limits hedonically- but not homeostatically-driven food intake**
A.D. KREISLER, L. RINAMAN
University of Pittsburgh, Pittsburgh, PA, USA

3:15 94 **Central nucleus of the amygdala glutamate receptors mediate cisplatin-induced malaise and energy balance dysregulation through direct hindbrain projections**
AL ALHADEFF, RA HOLLAND, HJ GRILL, BC DE JONGHE
The University of Pennsylvania, Philadelphia, PA, USA

THURSDAY, JULY 9

BREAK	
3:30 - 4:00 PM	**South Convention Lobby**

SYMPOSIUM	
4:00 - 6:00 PM	**Grand 1**
SYMPOSIUM 4: COGNITIVE CONTROL OF MEAL SIZE	

Chair: Bob Boakes

4:00 95 **What do studies on portion size and energy density tell us about the cognitive control of meal size?**
BJ ROLLS
Pennsylvania State University, University Park, PA, USA

4:30 96 **Does dietary variability compromise flavour-nutrient learning?**
AA MARTIN, D FERRIDAY, PJ ROGERS, JM BRUNSTROM
Nutrition and Behaviour Unit, University of Bristol, Bristol, United Kingdom

5:00 97 **Control of meal size by direct neuroendocrine signaling in the mesolimbic reward system**
EG MIETLICKI-BAASE
University of Pennsylvania, Philadelphia, PA, USA

5:30 98 **Remembering to eat or not: hippocampal regulation of energy intake**
MB PARENT
Georgia State University, Atlanta, GA, USA

THURSDAY, JULY 9

ORAL SESSION

4:00 - 6:00 PM **Grand 2**

ORAL 5: DEVELOPMENT AND EATING: BIDIRECTIONAL INFLUENCES

Chair: Gretha Boersma

4:00 99 **Nicotine and ethanol co-use in Long-Evans rats: Stimulatory effects of perinatal exposure to a fat-rich diet**
O KARATAYEV, O LUKATSKAYA, S MOON, W GUO, D CHEN, D ALGAVA, S ABEDI, S LEIBOWITZ
Rockefeller U, NY, NY, USA

4:15 100 **Adolescent high fat feeding disrupts cognitive flexibility via downregulation of reelin expression in the prefrontal cortex (PFC)**
MA LABOUESSE[1], J RICHETTO[2], L PUJADAS[3], U STADLBAUER[1,2], E SORIANO[3], W LANGHANS[1], U MEYER[1,2]
[1]Physiology of Behavior Laboratory, ETH, Zurich, Switzerland, [2]University of Zurich, Zurich, Switzerland, [3]CIREN, Barcelona, Spain

4:30 101 **NITA AWARD WINNER: Maternal high-fat diet during gestation or lactation differentially impairs offspring hypothalamic neurocircuit development**
L. SONG[1,2], S.G. BOURET[3], G.J. BOERSMA[1], Z.A. CORDNER[1], J.Q. YAN[2], T.H. MORAN[1], K.L. TAMASHIRO[1]
[1]Dept of Psychiatry, Johns Hopkins University School of Medicine, Baltimore, MD, USA, [2]Dept of Physiology, Xi'an Jiaotong Univ, Xi'an, China, [3]The Saban Research Inst, Univ of Southern California, Los Angeles, CA, USA

4:45 102 **NITA AWARD WINNER: Sex-specific memory deficits following sucrose consumption during adolescence in rats**
AC REICHELT[1], KN ABBOTT[1], RF WESTBROOK[1], MJ MORRIS[2]
[1]School of Psychology, UNSW Sydney, Sydney, Australia, [2]School of Medical Sciences, UNSW Sydney, Sydney, Australia

5:00 103 **Infants' reactions to novel foods predict food neophobia during early childhood**
KJ MODING, CA STIFTER
Pennsylvania State University, University Park, PA, USA

5:15 104 **NITA AWARD WINNER: Neural response to images of food varying in energy density is associated with body composition in children**
SN FEARNBACH, LK ENGLISH, SJ WILSON, JS SAVAGE, BJ ROLLS, KL KELLER
Pennsylvania State University, University Park, PA, USA

5:30 105 **Children's neural response to food images that vary in portion size**
LK ENGLISH[1], SN FEARNBACH[1], SJ WILSON[1], JO FISHER[2], BJ ROLLS[1], KL KELLER[1]
[1]Penn State University, University Park, PA, USA, [2]Temple University, Philadelphia, PA, USA

5:45 106 **Children's attraction to sweetness and its impact on eating behavior**
C DIVERT, S ISSANCHOU, S NICKLAUS
INRA, UMR1324 CSGA, Dijon, France

THURSDAY, JULY 9

POSTERS

6:00 - 8:00 PM **South Convention Lobby**

POSTER SESSION II

1 - 17	**Foods, feeding and choice**
18 - 23	**Mothers and children**
24 - 31	**Central and gut signals**
32 - 34	**CCK**
35	**Immune**
36 - 37	**Misc**

P1 107 **Effects of monotonous versus varied ("junk food") high-fat diet on obesity and food motivation**
IJ TYREE, AL TRACY
Grinnell College, Grinnell, IA, USA

P2 108 **Does serving larger portions of all items at a meal affect preschool children's vegetable intake?**
SMR KLING, KL KELLER, LS ROE, BJ ROLLS
The Pennsylvania State University, University Park, PA, USA

P3 109 **Perceived social norms predict changes in self-reported vegetable intake**
J LIU[1], E ROBINSON[2], S HIGGS[1], JM THOMAS[1]
[1]School of Psychology, University of Birmingham, Birmingham, United Kingdom, [2]Department of Psychology University of Liverpool, Liverpool, United Kingdom

P4 110 **Effects of a modern 'junk food' or 'natural food' cafeteria diet on flavor-nutrient learning and sweet taste responses in rats**
KP MYERS, KM PALFRAMAN
Bucknell University, Lewisburg, PA, USA

P5 111 **Selective reduction of dietary carbohydrate versus fat does not influence subsequent** *ad libitum* **intake**
SB BERNSTEIN[1], AB COURVILLE[1], J PRESSER[1], KD HALL[2]
[1]NIH Clinical Center Nutrition Department, Bethesda, MD, USA, [2]NIH National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, MD, USA

P6 112 **Dissociation in leptin's modulation of food intake versus thermogenesis in rats offered a high-fat high-sucrose diet**
KCG DE GIT[1], R PANDIT[1], MCM LUIJENDIJK[1], SE LA FLEUR[2], RAH ADAN[1]
[1]UMCU, Utrecht, Netherlands, [2]AMC, Amsterdam, Netherlands

P7 113 **Physical properties of lipid emulsions affect short-term food intake and gastrointestinal function in rats**
M ARNOLD[1], S FEDELE[1], N SCHEUBLE[3], H PARKER[2], L DIAN[4], P FISCHER[3], A STEINGOETTER[2], W LANGHANS[1]
[1]Physiology and Behavior Laboratory, ETH Zurich, Switzerland, [2]Division of Gastroenterology and Hepatology, University Hospital Zurich, Switzerland, [3]Laboratory of Food Process Engineering, ETH Zurich, Switzerland, [4]Institute for Biomedical Engineering, ETH Zurich, Switzerland

P8 114 **Enhanced glycolysis mediates the oleic acid (OA)-induced stimulation of glucagon like peptide 1 (GLP-1) secretion from enteroendocrine cells**
R CLARA, W LANGHANS, A MANSOURI
Physiology and Behavior Laboratory, ETH, Zürich, Switzerland

P9 115 **Mice do not always choose cheap food**
DM MINAYA, R HELLER, LL HINTENLANG, KL ROBERTSON, NE ROWLAND
University of Florida, Gainesville, FL, USA

P11 116 **Diurnal changes in ingestive behavior: Monitoring food "Micro-Intake" events in mice provides essential information**
J LIGHTON[1], A MOELICH[2]
[1]Sable Systems International, Las Vegas, NV, USA, [2]Sable Systems Europe, Berlin, Germany

P12 117 **How Does Calorie Information Affect Women's Food Choices and Intake?**
CA FORESTELL, JC KNAPP, B KRUJA, KM OBERG, LA PIULSON
The College of William & Mary, Williamsburg, VA, USA

P13 118 **The influence of eating frequency on appetite during weight loss**
CC WOLZ, HA RAYNOR
Department of Nutrition, University of Tennessee, Knoxville, TN, USA

P14 119 **Galanin is upregulated by acute high fat diet intake**
E ENGLAND[1], L GAN[2], DL HARTZELL[3], JY YANG[3], S AMBATI[3], RB MEAGHER[4], CA BAILE[3]
[1]Neuroscience Division, Biomedical and Health Sciences Institute, University of Georgia, Athens, GA, USA, [2]Veterinary Medicine Department, Southwest University, P. R., China, [3]Department of Animal & Dairy Science, University of Georgia, Athens, GA, USA, [4]Department of Genetics, University of Georgia, Athens, GA, USA

P15 120 **Central MCH receptor signaling increases food impulsivity and consummatory aspects of feeding independent of palatability**
TM HSU, JA CHEUNG, SE KANOSKI
University of Southern California, Los Angeles, CA, USA

P16 121 **Identifying Diet-congruent Beverages in Dieters and Non-dieters**
LJ NOLAN[1], MM HETHERINGTON[2]
[1]Wagner College, Staten Island, NY, USA, [2]University of Leeds, Leeds, United Kingdom

P17 122 **Thylakoid consumption reduces wanting and liking for palatable food - treatment effects are correlated to a reduced food intake**
EL STENBLOM, C MONTELIUS, E EGECIOGLU, C ERLANSON-ALBERTSSON
Department of Experimental Medical Science, Appetite Regulation Unit, Faculty of Medicine, Lund University, Lund, Sweden

P18 123 **Benefits of a school based nutrition-intervention program in Appalachia: Parent reports and student outcomes.**
AM DOERFLINGER, LD ROBERTS
Marietta College, Marietta, OH, USA

P19 124 **Linking mother's perception of her weight history to psychological attributes and child feeding**
S BOUHLAL[1], L ABRAMS[1], CM MCBRIDE[2], S PERSKY[1]
[1]Social and Behavioral Research Branch, NIH/ NHGRI, Bethesda, MD, USA, [2]Emory University Rollins School of Public Health, Atlanta, GA, USA

P20 125 **Anxious adolescents reporting poor quality of maternal care have alterated food intake according to cortisol levels**
TD MACHADO[1], R DALLE MOLLE [1], RS REIS[1], DM RODRIGUES[2], AB MUCELLINI[2], BC ERGANG[3], AC CUNHA[3], R TOAZZA[2], GG MANFRO[2], PP SILVEIRA[1]
[1]Department of Pediatrics, Porto Alegre, Brazil, [2]Department of Psychiatry, Porto Alegre, Brazil, [3]Department of Nutrition, Porto Alegre, Brazil

P21 126 **Maternal obesity regulates taste receptor expression in the heart of rat offspring**
MJ MORRIS, G HARDY, H BAHARI, M RAIPULA
Pharmacology, School of Medical Sciences UNSW Australia, Sydney, Australia

P22 127 **Intrauterine growth restriction (IUGR) can change the hedonic response to sweet taste - role of the mu opioid receptors in the nucleus accumbens**
DP LAUREANO[1], RD MOLLE[2], MB ALVES[1], C LUFT[4], M DESAI[3], MG ROSS[3], PP SILVEIRA[1,2]
[1]PPG Neurociências UFRGS, Porto Alegre, Brazil, [2]PPGSCA-HCPA-UFRGS, Porto Alegre, Brazil, [3]Dept of Ob/Gyn, Harbor-UCLA Med Ctr, Torrance, CA, USA, [4]PUCRS, Porto Alegre, Brazil

P23 128 **Birth weight predicts feeding behavior in siblings**
M AGRANONIK[4], H GAUDREAU[2], M J MEANEY[1], R D LEVITAN[2], P P SILVEIRA[3]
[1]McGill University, Montreal, QC, Canada, [2]University of Toronto, Toronto, ON, Canada, [3]3Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil, [4]Fundação de Economia e Estatística, Porto Alegre, Brazil

P24 129 **GLP-1 receptors in lateral septum influence sucrose and corn oil intake**
SJ TERRILL, CM DELLAMORTE, N LILLY, DL WILLIAMS
Psychology Department & Program in Neuroscience, Florida State University, Tallahassee, FL, USA

P25 130 **Ghrelin signaling is not essential for sugar or fat conditioned flavor preferences in mice**
A SCLAFANI, K TOUZANI, K ACKROFF
Brooklyn College of CUNY, Brooklyn, NY, USA

P26 131 **Central ghrelin administration increases food foraging/hoarding that is blocked by GHSR1a antagonism and attenuates PVH neuronal activation**
MA THOMAS[1,2], TJ BARTNESS[1,2]
[1]Department of Biology, Georgia State University, Atlanta, GA, USA, [2]Center for Obesity Reversal, Georgia State University, Atlanta, GA, USA

P27 132 **Investigation into the Central Actions of Adropin**
LM STEIN, GLC YOSTEN, WK SAMSON
Saint Louis University, St. Louis, MO, USA

P28 133 **Inhibition of c-Jun N-terminal Kinase Suppresses Feeding and Reduces Body Weight**
S GAO, P LOGRASSO
Department of Molecular Therapeutics, The Scripps Research Institute, Jupiter, FL, USA

P36 141 **Novel ghrelin receptor inverse agonists as possible therapeutics against overweight and metabolic disease**
K ABEGG[1], M HUTTER[1], C PIETRA[2], C GIULIANO[2], TA LUTZ[1], T RIEDIGER[1]
[1]University of Zurich, Institute of Veterinary Physiology, Zurich, Switzerland, [2]Helsinn SA, Research and Preclinical Development Dept, Lugano, Switzerland

P29 134 **A modified Roux-en-Y gastric bypass procedure alters the feeding responses evoked by exogenous gastrin releasing peptides**
MC WASHINGTON[1], KE WILLIAMS[1], J BERGER[2], RE JOHNSON[1], T JOHNSON-ROUSE[1], C FREEMAN[1], A HARRISON[1], J HEATH[1], R SEELEY[2], AI SAYEGH[1]
[1]Tuskegee University, Tuskegee, AL, USA, [2]University of Cincinnati, Cincinnati, OH, USA

P30 135 **Regulation of food intake by leptin receptors located in the raphe nuclei**
CA GRILLO, MC RISHER, VA MACHT, AL BUMGARDNER, CE PETYAK, LP REAGAN, JR FADEL
Pharmacology, Physiology & Neuroscience Department, School of Medicine, University of South Carolina, Columbia, SC, USA

P31 136 **Operant licking for intragastric sugar: differential reinforcing actions of glucose, sucrose and fructose**
K ACKROFF, A SCLAFANI
Brooklyn College of CUNY, Brooklyn, NY, USA

P32 137 **Physiological basis of sensory-enhancement of satiety: a role for CCK and PP**
MR YEOMANS[1], R RE[2], H LUNDHOLM[2], L CHAMBERS[3]
[1]School of Psychology, University of Sussex, Brighton, United Kingdom, [2]Leatherhead Food Research, Leatherhead, United Kingdom, [3]British Nutrition Foundation, London, United Kingdom

P33 138 **CCK response deficiency in synphilin-1 transgenic mice**
WW SMITH[1], D YANG[1], M SMITH[2], P CHOI[2], A MOGHADAM [2], T LI[1], TH MORAN[2]
[1]1Department of Pharmaceutical Sciences, University of Maryland School of Pharmacy, Baltimore, MD, USA, [2]2Department of Psychiatry, Johns Hopkins University School of Medicine, Baltimore, MD, USA

P34 139 **Effect of cholecystokinin-8 and cholecystokinin-33 on meal size and intermeal interval and the gastrointestinal site of action regulating them in diet-induced obese rats maintained on normal rat chow**
MC WASHINGTON, KE WILLIAMS, AI SAYEGH
Tuskegee University, Tuskegee, AL, USA

P35 140 **Don't Eat Yourself Sick: Obesity is Associated with Compromised Immunity**
AM MAGNUSON, A BOOTH, J FOUTS, D REGAN, S DOW, MT FOSTER
Colorado State University, Fort Collins, CO, USA

P37 142 **The tools we use to eat: do they affect the amount we consume?**
D.A. LEVITSKY
Cornell University, Ithaca, NY, USA

FRIDAY, JULY 10

SYMPOSIUM

8:30 - 10:30 AM **Grand 1**

SYMPOSIUM 5:THE MILE HIGH CLUB: CANNABIS AND ENDOCANABINOID EFFECTS ON INGESTIVE BEHAVIOR

Chair: Nick DiPatrizio

8:30 143 **Medical Marijuana: A Feeding frenzy**
RW FOLTIN, M HANEY
NYSPI/Columbia University Medical Center, New York, NY, USA

9:00 144 **Disruption of endocannabinoid signaling decreases ingestive behaviors and curtails accumbal encoding of food related cues**
JF CHEER
University of Maryland School of Medicine, Baltimore, MD, USA

9:30 145 **Novel insights on the role of the endocannabinoid system in the regulation of energy balance**
D COTA[1,2]
[1]INSERM U862, Bordeaux, France, [2]University of Bordeaux, Bordeaux, France

10:00 146 **Intestinal lipid-derived signals that sense dietary fat**
D PIOMELLI
University of California, Irvine, CA, USA

ORAL SESSION

8:30 - 10:30 AM **Grand 2**

ORAL 6: PORTION AND MEAL CONTROL

Chair: Laurence Nolan

8:30 147 **Portion size influences meal intake in the pastoralist Samburu people of Kenya**
KP MYERS[1], R DEAN[2], JM BRUNSTROM[2], PJ ROGERS[2], JD HOLTZMAN[3]
[1]Bucknell University, Lewisburg, PA, USA, [2]University of Bristol, Bristol, United Kingdom, [3]Western Michigan University, Kalamazoo, MI, USA

8:45 148 **Energy compensation and dietary learning: A study of Samburu pastoralists from North-Central Kenya.**
JM BRUNSTROM[1], PJ ROGERS[1], KP MYERS[2], JD HOLTZMAN[3]
[1]University of Bristol, Bristol, United Kingdom, [2]Bucknell University, Lewisburg, PA, USA, [3]Western Michigan University, Kalamazoo, MI, USA

9:00 149 **Long-term effect of water loading on food intake.**
NJ MCKAY, IV BELOUS, AM ZIEGLER, JL TEMPLE
University at Buffalo, Buffalo, NY, USA

FRIDAY, JULY 10

9:15 150 **GLP-1 receptors in the dorsomedial hypothalamus (DMH) are essential for the regulation of energy balance**
SJ LEE[1], KG PETTERSEN[1], JP KRIEGER [1], M ARNOLD[1], R CLARA[1], N JEJELAVA[1], MR HAYES[2], W LANGHANS[1]
[1]Physiology and Behavior Laboratory, ETH, Zurich, Switzerland, [2]Department of Psychiatry, University of Pennsylvania, Philadelphia, PA, USA

9:30 151 **Is it good to have options? The effect of offering a choice of portion sizes on intake at a meal**
FM ZURAIKAT[1], LS ROE[1], GJ PRIVITERA[2], BJ ROLLS[1]
[1]Penn State University, University Park, PA, USA, [2]St. Bonaventure University, St. Bonaventure, NY, USA

9:45 152 **Amylin and leptin interact in the control of eating**
T.A LUTZ, S DUFFY, C.N BOYLE
Institute of Veterinary Physiology, University of Zurich, Zürich, Switzerland

10:00 153 **Do distracted mothers overfeed their infants?**
RB GOLEN[1], AK VENTURA[2]
[1]Drexel University, Philadelphia, PA, USA, [2]California Polytechnic State University, San Luis Obispo, CA, USA

10:15 154 **NITA AWARD WINNER: GLP-1 receptor signaling in the lateral dorsal tegmental area is physiologically required for the regulation of food intake and body weight**
DJ REINER[1], SE KANOSKI[2], MR HAYES1
[1]University of Pennsylvania, Philadelphia, PA, USA, [2]University of Southern California, Los Angeles, CA, USA

BREAK	
10:30 - 11:00 AM	**South Convention Lobby**

MARS LECTURE	
11:00 - 12:00 PM	**Grand 1**

Chair: Matt Hayes

155 **Mechanisms of Compulsive Eating**
PAUL KENNY
Icahn School of Medicine at Mount Sinai NY

WORKSHOP	
12:15 - 1:45 PM	**Grand 2**
CAREER DEVELOPMENT WORKSHOP	

Chair: Megan Dailey

No faculty attendees please. This session provides an environment for students and post-docs to openly discuss issues related to their career development. Please note that lunch is NOT provided.

FRIDAY, JULY 10

SYMPOSIUM

4:00 - 6:00 PM **Grand 1**

SYMPOSIUM 6: PHARMACOTHERAPIES FOR METABOLIC DISORDERS: CURRENT STATUS AND FUTURE DIRECTIONS

Chair: Marc Andre Cornier

4:00 157 **The Use of Nonhuman Primates For Key Insights Into the Pathogenesis and Treatment Of Obesity And Diabetes**
Kevin Grove
Oregon Health & Science University,OR, US

4:30 158 **Could peripheral taste-signaling proteins be exploited as targets for anti-obesity pharmacotherapeutic intervention?**
RK PALMER
Opertech Bio, Inc., Philadelphia, PA, USA

5:00 159 **Targeting the Alpha Cell in Hypoglycemia**
WK SAMSON, LM STEIN, GLC YOSTEN
Saint Louis University, St. Louis, MO, USA

5:30 160 **Nutrient Sensing Through Metabolite Receptors In The Enteroendocrine System**
T SCHWARTZ. *University of Copenhagen Denmark*

ORAL SESSION

4:00 - 6:00 PM **Grand 2**

ORAL 7: LEARNING AND CONDITIONING

Chair: Kevin Myers

4:00 161 **Obesity-prone rats show enhanced cue-triggered food seeking**
RC DERMAN, CR FERRARIO
University of Michigan, Ann Arbor, MI, USA

4:15 162 **NITA AWARD WINNER: Systemic administration of the orexin/hypocretin antagonist SB-334867 attenuates Pavlovian cue-food conditioning**
SE KEEFER, S COLE, GD PETROVICH
Boston College, Chestnut Hill, MA, USA

4:30 163 **The orexin/hypocretin antagonist SB-334867 impairs cue-induced feeding and increases Fos expression in prefrontal cortex and thalamus**
S COLE, HS MAYER, GD PETROVICH
Psychology, Boston College, Chestnut Hill, MA, USA

4:45 164 **The number and type of palatable foods associated with a context affect the selectivity of cue-potentiated feeding.**
MD KENDIG, RA BOAKES, LH CORBIT
School of Psychology, University of Sydney, Sydney, Australia

FRIDAY, JULY 10

5:00 165 **Functional brain changes associated with weight loss**
S NESELILER[1,2], W HU[2], M ZACCHIA[1,2], K LARCHER[2], S SCALA[1], M LAMARCHE[3], S STOTLAND[4], M LAROQUE[4], E MARLISS[1,3], A DAGHER[1,2]
[1]McGill University, Montreal, QC, Canada, [2]McConnell Brain Imaging, Montreal Neurological Institute, Montreal, QC, Canada, [3]McGill Nutrition and Food Science Centre, Montreal, QC, Canada, [4] Motivation Weight Management Clinic, Montreal, QC, Canada

5:15 166 **Self-reported responsivity and psychophysiological responding during a food exposure task**
B MATHESON[1], C CAMACHO[2], A BRADEN[1], V RISBROUGH[1], KN BOUTELLE[1]
[1]University of California, San Diego, La Jolla, CA, USA, [2]Hawaii Center for Children and Families, Kailua, HI, USA

5:30 167 **Neural & behavioral consequences of daily high-sugar juice consumption: An fMRI experiment.**
K.S. BURGER, G WEAVER
University of North Carolina, Chapel Hill, NC, USA

5:45 168 **Conditioned avoidance of a high fat/high sucrose diet differentially generalizes to orosensory stimuli**
Y TREESUKOSOL[1], T.H. MORAN[1,2]
[1]Department of Psychiatry & Behavioral Sciences, School of Medicine, Johns Hopkins University, Baltimore, MD, USA, [2]Johns Hopkins Global Obesity Prevention Center. Johns Hopkins University, Baltimore, MD, USA

FRIDAY, JULY 10

POSTERS

6:00 - 8:00 PM **South Convention Lobby**

POSTER SESSION III

1 - 10	**Reward**
11 - 20	**Learning, Memory & Cognition**
21 - 25	**Exercise and body weight regulation**
26 - 29	**Taste and Odor**
30 - 32	**Gut**
33 - 34	**Nutraceuticals**
35 - 36	**Adipose tissue**
37	**Genes and behavior**

P1 169 **Optogenetic inhibition of ventral tegmental area dopamine neurons reduces reward-seeking**
G VAN DER PLASSE[1], R VAN ZESSEN[1], MP SMIDT[2], GMJ RAMAKERS[1], GD STUBER[3], RAH ADAN[1]
[1]Dept Transl Neurosci, Brain Cen Rudolf Magnus, Univ Med Cen, Utrecht, Netherlands, [2]Swammerdam Inst Life Sci, Univ of Amsterdam, Amsterdam, Netherlands, [3]Psychiatry & Cell Biol and Physiol, Univ of North Carolina, Chapel Hill, NC, USA

P2 170 **Hedonic hunger's relation to neural, behavioral & perceptual responses to food stimuli: Evidence from three studies**
AJ SANDERS, KS BURGER
University of North Carolina, Chapel Hill, NC, USA

P3 171 **Mesotelencephalic and Systemic Ghrelin Signaling in Operant Responding for Food**
ET BROCKWAY, JA SELVA, PJ CURRIE
Dept Psychology, Reed College, Portland, OR, USA

P4 172 **Body weight is related to striatal response to predicted, but not unpredicted milkshake receipt and this relationship is not influenced by baseline cerebral blood flow.**
AG DIFELICEANTONIO[1,3], YM NAKAMURA[1], M QIU[2], P GEHA[1,2], DM SMALL[1,2,3]
[1]John B Pierce Institute, New Haven, CT, USA, [2]Yale School of Medicine, New Haven, CT, USA, [3]Max Planck Institute for Metabolism Research, Cologne, Germany

P5 173 **Brain reward responses to olfactory food cues in obese participants – preliminary fMRI results**
HFA ZOON, L VAN GENDEREN, SEM DE BRUIJN, G JAGER, PAM SMEETS, C DE GRAAF, S BOESVELDT
Division of Human Nutrition, Wageningen University, Wageningen, Netherlands

P6 174 **Dopaminergic dysfunction, food intake, and physical activity in diet-induced obesity**
K DEVARAKONDA, DM FRIEND, KD HALL, AV KRAVITZ
National Institute of Diabetes and Digestive and Kidney Diseases, Diabetes, Endocrinology, and Obesity Branch, Bethesda, MD, USA

P7 175 **Sex Differences in Demand for Highly Palatable Food Rewards: Role of Orexin Neurons**
LR FREEMAN[1], BS BENTZLEY[1], G ASTON-JONES[2]
[1]Medical University of South Carolina, Charleston, SC, USA, [2]Rutgers University, Piscataway, NJ, USA

P8 176 **Decreased dorsal striatal response to a palatable milkshake is associated with impaired negative outcome learning in obese/overweight, but not healthy weight individuals.**
Y NAKAMURA[1], A DIFELICEANTONIO[1,3], P GEHA[1,2], D SMALL[1,2,3]
[1]The John B. Pierce Laboratory, New Haven, CT, USA, [2]Yale University School of Medicine, New Haven, CT, USA, [3]Max Planck Institute for Metabolism Research, Cologne, Germany

P9 177 **Molecular inducers of non-homeostatic snack food intake**
S KRESS, A HESS, T HOCH, M PISCHETSRIEDER
FAU, Erlangen-Nürnberg, Germany

P10 178 **Optogenetic Manipulation of Posterior Paraventricular Thalamic Circuits Alters Chocolate Intake**
KR URSTADT, DA ALI, ER GRANT, NM RABAH, KC BERRIDGE
Psych. Dept., Univ. of Michigan, Ann Arbor, MI, USA

P11 179 **The effect of obesity on hippocampal leptin and spatial memory in the radial arm maze**
MJ RIEGSECKER, D JAIME GARCIA, AL TRACY
Grinnell College, Grinnell, IA, USA

P12 180 **Partial aberration of oral sensory relay to brain may affect the retrieval of taste-associated memory**
DY KIM[1,2], JY KIM[1], S CHUNG[1], JH KOO[2], JH LEE[1], JW JAHNG[1]
[1]Seoul National University School of Dentistry, Seoul, South Korea, [2]Dept Brain Science, DGIST, Dae Gu, South Korea

P13 181 **Food odors and attentional bias for visual food cues**
WW ZHUANG, TL SCHROEDER, CA FORESTELL
College of William and Mary, Williamsburg, VA, USA

P14 182 **Stress and personality interact to modulate the neural response to food cues**
S NESELILER[1], K LARCHER[1], B TANNENBAUM[1,2], M ZACCHIA[1,2], J PRUESSNER[1,3], A DAGHER[1,2]
[1]McGill University, Montreal, QC, Canada, [2]Montréal Neurological Institute, Montreal, QC, Canada, [3]Douglas Mental Health University Institute, Montreal, QC, Canada

P15 183 **Integration of Internal and External Cues in the Learned Control of Appetitive Behavior**
S JONES, CH SAMPLE, SL HARGRAVE, TL DAVIDSON
American University, Washington, DC, USA

P16 184 **Western diet intake disrupts learning mechanisms involved in externality**
CH SAMPLE, S JONES, SL HARGRAVE, TL DAVIDSON
American University, Center for Behavioral Neuroscience, Washington, DC, USA

P17 185 **Effects of chronic sucrose intake on cognitive performance of 3xTg-AD and Non transgenic mice.**
KR GUZMáN-RAMOS[1,2], G PACHECO-LóPEZ[1], L AYALA-GUERRERO[3], F BERMúDEZ-RATTONI[3]
[1]Universidad Autónoma Metropolitana-Lerma, Lerma de Villada, Mexico, [2]Universidad Autónoma Metropolitana-Xochimilco, Mexico, Mexico, [3]Instituto de Fisiología Celular, Mexico, Mexico

P18 186 **Differences in Physiological Food Cue Reactivity Between Emotional Eaters and Non-Emotional Eaters**
A BRADEN[1], C CAMACHO[2], B MATHESON[1], V RISBROUGH[1], KN BOUTELLE[1]
[1]University of California, San Diego, CA, USA, [2]Hawaii Center for Children and Families, Kailua, HI, USA

P19 187 **Greater Perceived Ability to Form Vivid Mental Images in Individuals with High Compared to Low BMI**
BP PATEL[1,2], K ASCHENBRENNER[1,2], D SHAMAH[1], DM SMALL[1-4]
[1]The John B. Pierce Laboratory, New Haven, CT, USA, [2]Department of Psychiatry, Yale University School of Medicine, New Haven, CT, USA, [3]Interdepartmental Neuroscience, Yale University School of Medicine, New Haven, CT, USA, [4]Department of Psychology, Yale University, New Haven, CT, USA

P20 188 **PhosphoLean reduces impulsivity in heavy drinkers on a Go/No-Go Task**
MV BURKE[1,2], MJ VAN KOOTEN[1,2,3], MG VELDHUIZEN[1,2], SS O'MALLEY[2], DM SMALL[1,2]
[1]JB Pierce Lab, New Haven, CT, USA, [2]Yale Univ, New Haven, CT, USA, [3]Univ of Groningen, Groningen, Netherlands

P21 189 **Assessing macronutrient diet preference in rats selectively bred to run long vs short distances**
J. R LEE[1,2,3], J. E MUCKERMAN[1], B. N WAHLE[1], A. M WRIGHT[1], F. W BOOTH[4], M. J WILL[1,2,3]
[1]Department of Psychological Sciences, Columbia, MO, USA, [2]Christopher Bond Life Sciences Center, Columbia, MO, USA, [3]Interdisciplinary Neuroscience Program, Columbia, MO, USA, [4]Department of Biomedical Sciences, Columbia, MO, USA

P22 190 **Short-term Weight Variability Predicts Weight Gain**
AF MURATORE, EH FEIG, SR WINTER, MR LOWE
Drexel University, Philadelphia, PA, USA

P23 191 **Energetic cost of a running wheel: Implications for exercise-based weight loss interventions**
TJ O'NEAL[1], DM FRIEND[1], AV KRAVITZ[1,2]
[1]National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, Bethesda, MD, USA, [2]National Institute on Drug Abuse, National Institutes of Health, Bethesda, MD, USA

P24 192 **The effects of CRF receptor antagonists on food intakes and choice in sedentary and wheel running rats**
N-C. LIANG[1], T.H. MORAN[2]
[1]Psychology, University of Illinois-Urbana Champaign, Champaign, IL, USA, [2]Psychiatry and Behavioral Sciences, Johns Hopkins University, Baltimore, MD, USA

P25 193 **Body composition changes following sugar and food restriction with exercise in a sugar-sweetened beverage rat model of obesity**
KB ROONEY, K MILLS, MD KENDIG, SI MARTIRE, RA BOAKES
University of Sydney, Sydney, Australia

P26 194 **Continuous recording of blood glucose reveals that taste modulates the blood glucose response to a gavaged glucose load**
R.L. POOLE, H.T. ELLIS, M.G. TORDOFF
Monell Chemical Senses Center, Philadelphia, PA, USA

P28 195 **Cannabinoid modulation of sweet taste perception and liking**
G JAGER, S DE BRUIJN, R WITKAMP, C DE GRAAF
Wageningen University, Wageningen, Netherlands

P29 196 **Study on the Processing of Binary Odor Mixtures in Rat: Implication for the Complex Food Odor Perception**
T ONUMA, N SAKAI
Department of Psychology, Tohoku University, Sendai-shi, Miyagi, Japan

P30 197 **Nutrient induced changes in intestinal epithelial crypt and stem cell metabolism**
W ZHOU, MJ DAILEY
University of Illinois at Urbana-Champaign, Urbana, IL, USA

P31 198 **Diet-induced obesity is associated with a change in the intestinal microbiota, activation of microglia, and reorganization of the nucleus of the solitary tract.**
EM COOPER[2], AC VAUGHN[2], PM DILORENZO[3], JL O'LOUGHLIN[4], ME KONKEL[4], JH PETERS[2], K CZAJA[1]
[1]VBDI, University of Georgia, Athens, GA, USA, [2]IPN, Washington State University, Pullman, WA, USA, [3]Dept of Psychology, Binghamton University, Binghamton, NY, USA, [4]SMB, Washington State University, Pullman, WA, USA

P32 199 **Effect of diet on the number and differentiated type of intestinal epithelial cells**
KA MCGEEVER, EP RETZBACH, MJ DAILEY
University of Illinois at Urbana-Champaign, Urbana, IL, USA

P33 200 **Green Coffee Extract did not affect BW, BMI, Waist Circumference, BP or Basel Plasma Insulin, but appears to Improve Insulin Sensitivity in Obese People**
TR BONO[1], DM SURINA-BAUMGARTNER[1], G MACGREGOR[1], W LANGHANS[2]
[1]UAH, Huntsville, AL, USA, [2]ETH Zürich, Zurich, Switzerland

P34 201 **The Myth of the Anti-Obesity Effect of Garcinia Cambogia**
HM MURPHY, CH WIDEMAN
Neuroscience Program, John Carroll University, University Heights, OH, USA

P35 202 **Brown Adipose Tissue (BAT) Sensory Innervation Monitors Lipolysis**
V.A. RYU, T.J. BARTNESS
Georgia State University, Atlanta, GA, USA

P36 203 **Protective Effects of Subcutaneous Adipose Tissue: Role as the "Metabolic Sink"**
A BOOTH, A MAGNUSON, M PAGLIASSOTTI, Y WEI, D WANG, MT FOSTER
Food Science and Human Nutrition, Colorado State University, Fort Collins, CO, USA

P37 204 **Receptivity to concepts linking genes and eating behaviors**
S BOUHLAL[1], CM MCBRIDE[2], S PERSKY[1]
[1]Social and Behavioral Research Branch, NIH/NHGRI, Bethesda, MD, USA, [2]Emory University Rollins School of Public Health, Atlanta, GA, USA

SATURDAY, JULY 11

SYMPOSIUM

8:30 - 10:30 AM **Grand 1**

SYMPOSIUM 7: UNDERSTANDING FOOD CHOICE

Chair: Jeff Brunstrom

8:30 205 **Food choice in children: the past, the present, the future**
S CARNELL
Johns Hopkins University, Baltimore, MD, USA

9:00 206 **The brain's response to the choice to consume saturated fat and liquid sugar**
SE LA FLEUR
AMC, Amsterdam, Netherlands

9:30 207 **Gastric Bypass-Induced Changes in Food Selection – Roles of Taste and Experience**
CM MATHES[1], CW LE ROUX[2], AC SPECTOR[1]
[1]Dept. of Psychology, Florida State University, Tallahassee, FL, USA, [2]Diabetes Complications Reseach Centre, School of Medicine, University College Dublin, Dublin, Ireland

10:00 208 **New insights on food choice: from neurocognitive mechanisms to real-life meals**
M ALONSO-ALONSO
Laboratory of Bariatric and Nutritional Neuroscience, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA, USA

ORAL SESSION

8:30 - 10:30 AM **Grand 2**

ORAL 8: NUTRIENT EFFECTS ON BRAIN FUNCTION

Chair: Stephanie Fulton

8:30 209 **NITA AWARD WINNER: Western Diet Exposure Increases Permeability in a Model Blood-Brain Barrier**
SL HARGRAVE, KL DECICCO-SKINNER, S JONES, CH SAMPLE, TL DAVIDSON
Center for Behavioral Neuroscience, American University, Washington, DC, USA

8:45 210 **Pre-existing and diet-induced alterations in nucleus accumbens function in preclinical models of obesity.**
CR FERRARIO, MF OGINSKY
University of Michigan Medical School, Ann Arbor, MI, USA

9:00 211 **Reduced sensory-evoked activity of locus coeruleus-norepinephrine neurons following dietary-induced binge eating and relationship to NPY**
BL YEOMANS, CY YANG, JL VERPEUT, NT BELLO
Rutgers, The State University of NJ, New Brunswick, NJ, USA

SATURDAY, JULY 11

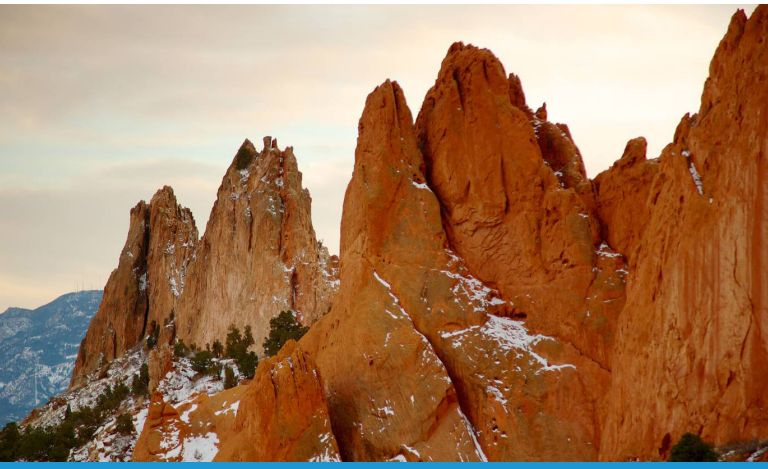
9:15 212 **Sucrose-induced plasticity in the basolateral amygdala in a 'comfort' food paradigm**
AEB PACKARD[1], S DI[2], S FOURMAN[1], S GHOSAL[1], AE EGAN[1], JG TASKER[2], YM ULRICH-LAI[1]
[1]University of Cincinnati, Cincinnati, OH, USA, [2]Tulane University, New Orleans, LA, USA

9:30 213 **Dietary Modulation of Striatal D2 Receptor Binding Potential and Stress Responses in Adult Female Macaques**
CA SHIVELY, MA NADER, SR JONES, SE APPT, TC REGISTER
Wake Forest School of Medicine, Winston-Salem, NC, USA

9:45 214 **Oleoylethanolamide (OEA), an anorexic agent with potent motor side effect**s
S FEDELE, M ARNOLD, J KRIEGER, M KLARER, U MEYER, W LANGHANS, A MANSOUR*l*
*Physiology and Behavior Laboratory, ETH Zurich, Zurich, Switzerlan*d

10:00 215 **NITA AWARD WINNER: Weighing the Evidence: Variance in Brain Responses to Milkshake Receipt is Predictive of Feeding Behavior**
NB KROEMER[1,2], X SUN[1,2], MG VELDHUIZEN[1,2], AE BABBS[1], IE DE ARAUJO[1,2], DM SMALL[1,2]
1The John B. Pierce Laboratory, New Haven, CT, USA, [2]Yale University, New Haven, CT, USA

10:15 216 **Brain fatty acid and ketone sensing and the regulation of food intake in DIO and DR rats**
C LE FOLL[1], A.A DUNN-MEYNELL[2], B.E LEVIN[1,2]
[1]Dept Neurology and Neurosciences, NJ Medical School, Newark, NJ, USA, [2]VA Med. Ctr, East Orange, NJ, USA



SATURDAY, JULY 11

BREAK

10:30 - 11:00 AM — **South Convention Lobby**

MARS LECTURE

11:00 - 12:00 PM — **Grand 1**

Chair: Tim Moran

11:00 217 **Shades of White: The Regulation of Fat Distribution and Function**
SUSAN FRIED
Boston University, Boston, MA, USA

SYMPOSIUM

2:30 - 4:15 PM — **Grand 1**

AWARDS SESSION

Chairs: Tanja Kral, Scott Kanoski, Linda Rinaman

2:30 218 **Hoebel Prize for Creativity**
Barbara Rolls
Pennsylvania State University

3:05 219 **Alan N. Epstein Research Award**
Dana Small
Yale School of Medicine, The John B Pierce Laboratory

3:40 220 **Distinguished Career Award**
Edward Stricker
University of Pittsburgh

MEETING

4:15 - 5:15 PM — **Grand 1**

BUSINESS MEETING

Chair: Alan Watts

BANQUET

7:00 - 12:00 AM — **Grand 1**

AUTHOR INDEX

gate controlled access

liquid choice

flexible format

food choice

food & liquid

multiple applications

feeding station for non-human primates

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novo nordisk
obesity research unit seattle

novo nordisk
demonstrating commitment to obesity care

As Novo Nordisk works to expand its role in advancing obesity care for the nearly 80 million adults who struggle with this disease, the company last year announced the opening of a new research unit in Seattle, Washington. The Obesity Research Unit is led by Dr. Kevin Grove, a renowned endocrinologist specializing in obesity and health-related quality of life, and will be housed within the Novo Nordisk Research Center, which was founded in 2009. The shared premises will foster synergies between all of the research and development functions of the center, including the type 1 diabetes research currently underway.

The unit began work in 2014, and will expand to 60 research staff by 2016. Recruiting experts from around the world from industries, such as academia, biotech, and pharmaceutical, Novo Nordisk is committed to building a multidimensional work force that demonstrates a broad range of skills and expertise. Globally, approximately 300 employees are working in obesity research and development at Novo Nordisk.

Harnessing the right expertise to achieve success

To ensure success of the Obesity Research Unit, we welcome renowned scientists to join us to lead the Obesity Research group and efforts, working in close partnership with academia and biotech to drive scientific excellence. Known as an innovation hub, Seattle offers a plethora of talent and invaluable resources in research and development, as well as a local mind-set oriented toward collaboration with both public and private organizations to help advance new target finding and drug development activities.

Join Novo Nordisk for a life-changing career

Headquartered in Denmark, Novo Nordisk is a global healthcare company with more than 90 years of innovation and leadership in diabetes care. The company also has leading positions within hemophilia care, growth hormone therapy and hormone replacement therapy. Novo Nordisk employs approximately 39.000 employees in 75 countries, and markets its products in more than 180 countries.

Working at Novo Nordisk is a mutually rewarding commitment. Consistent growth provides you with professional development and career opportunities. Thus, we invite you to bring your personal ambition and passion to work.

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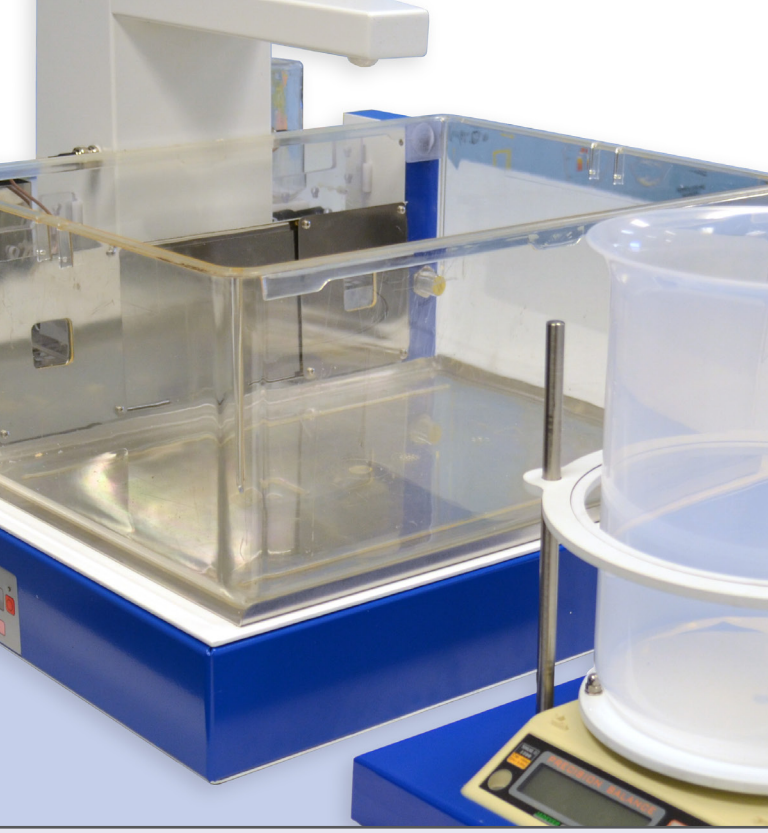

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SSIB 2015: Highlighted Journals

Physiology & Behavior

Physiology & Behavior is aimed at the causal physiological mechanisms of behavior and its modulation by environmental factors.

Appetite

Appetite is an international research journal specializing in behavioural nutrition and the cultural, sensory, and physiological influences on choices and intakes of foods and drinks.

*Journal Citation Reports, published by Thomson Reuters, 2014

elsevier.com/life-sciences/neuroscience

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