ANNUAL MEETING

Society for the Study of Ingestive Behavior

July 20-24, 2004
University of Cincinnati

Abstracts for this meeting have been published in Appetite Vol. 42 (3), pages 335-416, 2004
2003-2004

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ABSTRACTS (not published in Appetite) ................................................................. 23-26
BOARD/OFFICERS .................................................................................. inside front cover
CORPORATE BENEFACIONS ..................................................................... 46-48
HONORS / AWARDS .................................................................................. 4
PARTICIPANTS DIRECTORY ...................................................................... 27-44
POSTERS ........................................................................................................ 14-22
PROGRAM .................................................................................................... 5-14
      Tuesday, July 20 .................................................................................... 5
      Wednesday, July 21 ............................................................................. 6-7
      Thursday, July 22 .............................................................................. 8-9
      Friday, July 23 .................................................................................. 10-11
      Saturday, July 24 ............................................................................. 12
SOCIETY INFORMATION AND MEMBERSHIP ............................................. 45
SPONSORS / ACKNOWLEDGMENTS .............................................................. 3
SUMMARY PROGRAM ............................................................................. inside back cover
2005 ANNUAL MEETING ........................................................................... back cover
Dear Colleagues,

Welcome to the 12th Annual Meeting of The Society for the Study of Ingestive Behavior! The Program promises to yield a rich and varied scientific experience, which I hope you will also find genial and personally enriching.

The structure of SSIB’s meetings has evolved over the years as meeting organizers have sought to improve scientific quality and “user-friendliness”. Many of your colleagues have devoted substantial time toward these goals this year, and I would like to acknowledge some of them here. First, Hans-Rudi Berthoud, whose Program Committee has, I think, accomplished a very difficult job extremely well. Next, or in the same breath, the local organizers, Steve Woods and Randall Sakai, who, with the assistance of Jennifer Bedel, have performed an equally vital function by putting together the physical matrix for our science and, of course, worked together with the Program Committee to devise what we hope will be an excellent meeting organization. A different kind of service has been performed by several members who have contributed to our fund raising efforts. In the last few years, the goal of fundraising has widened to include not only support for new investigator travel, but support of non-member participation as well. This new dimension of our Annual Meetings depends on a number of generous corporations, enumerated elsewhere in this Program, and also on the efforts of several members. In this context, I would like to mention Kenny Simansky and Gary Schwartz, who not only won a renewal of SSIB’s NIH grant, but were able to expand its scope so that now several institutes are involved (NIDDK, NIMH, NIDA, and NIAAA) and that the grant can be used to fund special symposia as well as new investigator travel. John De Castro has again arranged Masterfoods support of our series of four Keynote Lectures. Finally, fundraising is another of the many reasons we owe our Executive Coordinator, Marianne Van Wagner, special thanks, for she not only attends to little details, such as reminding me to pay my dues, but also has in fact personally arranged a substantial amount of our corporate financial support.

These efforts were undertaken in the interest of our science. So I close as I began, by wishing each of you a valuable and enjoyable scientific experience in Cincinnati.

Nori Geary
SSIB President 2003-2004
Local Organizers, SSIB 2004 Annual Meeting

Stephen C. Woods, Ph.D. and Randall R. Sakai, Ph.D.
University of Cincinnati, Cincinnati, Ohio, USA

Program Committee, SSIB 2004 Annual Meeting

Hans-Rudolf Berthoud, Ph.D., Chair, Pennington Biomedical Research Center, Baton Rouge, LA, USA
France Bellisle, D.Sc., Inserm 341, Hotel Dieu, Paris, France
Lisa Eckel, Ph.D., Florida State University, Tallahassee, FL, USA
Barry E. Levin, M.D., DVA Medical Center, East Orange, NJ, USA
Randall Sakai, Ph.D., Local Organizer, University of Cincinnati, Cincinnati, OH, USA
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Margriet Westerterp-Plantenga, Ph.D., Maastricht University, The Netherlands
Diana Williams, Ph.D., University of Washington, Seattle, WA, USA
On behalf of the entire membership of the Society for the Study of Ingestive Behavior (SSIB), The Board and the Organizing Committee of the 2004 Annual Meeting sincerely thank the following organizations for their generous support of the Society:

**Corporate Benefactors**
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University of Cincinnati Department of Psychiatry
University of Cincinnati College of Medicine
University of Cincinnati Office of Research and Advanced Studies
Wright State University Neuroscience Department

**Other**
Individuals who made personal contributions
Mr. Glen C. Bedel
Graeter's Ice Cream Co.
Fisher Scientific, Inc.

We would also like to thank all the individual SSIB members who made personal contributions to the Society this year.
Distinguished Career Award
Sponsored by Johnson & Johnson Pharmaceutical Research & Development
Gerard P. Smith: The four M's of the experience of betting my life on discovering.

Alan N. Epstein Research Award
Patricia S. Grigson: Drugs of abuse and natural rewards: A bidirectional, cross-modal, reward comparison process.

New Investigator Awards
Listed alphabetically here and marked in the program with #.
Mr. Nicholas T. Bello, Penn State University, USA
Ms. Hui Chen, The University of Melbourne, Australia
Mr. Cedrick D. Dotson, University of Florida, USA
Mr. Bill R. Ellison, University of Guelph, Canada
Ms. Hella S. Jürgens, German Institute of Human Nutrition, Germany
Dr. Kimberly A. Kinzig, Johns Hopkins University School of Medicine, USA
Mr. Eric G. Krause, The Florida State University, USA
Mr. Bumsup Kwon, The Florida State University, USA
Ms. Michelina M. Messina, The Florida State University, USA
Dr. Celine Morens, University of Groningen, The Netherlands
Mr. Michael J. Morris, University of Iowa, USA
Ms. Mariana Schroeder, Bar-Ilan University, Israel
Ms Zoe D. Thornton-Jones, University of Sussex, England
Ms. Esther van de Wall, University of Groningen, The Netherlands
Ms. Cheryl H. Vaughan, University of Florida, USA
Mrs. Elizabeth C. Wuorinen, University of Michigan, USA
Ms. Emma Yeh-Min Yiin, Brooklyn College, City University of New York, USA
Dr. Orna Zagoory, Bar-Ilan University, Israel
Tuesday, July 20

09:00 – 18:00  **Registration** – West Pre-function

11:00 – 13:00  **LRPC meeting** – 202 University Board Room

15:00 – 17:00  **Board Meeting** – 202 University Board Room

18:00 – 19:00  **Welcome Reception** – Fifth Third Plaza
Wednesday, July 21

Presenting authors are indicated by Bold type. New Investigator Award winners are marked with *.

8:00 – 14:00  Registration – West Pre-function

8:00 – 8:05  Welcoming Remarks - Robert A. Frank, Associate Vice President for Research and Associate Dean of Graduate Studies, University of Cincinnati

8:05 – 8:10  Opening Remarks - Pres. N. Geary – Grand Ballroom

<table>
<thead>
<tr>
<th>Symposium 1 – Grand Ballroom Salon A</th>
<th>Symposium 2 – Grand Ballroom Salon BC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cognitive Control of food intake in humans</strong>&lt;br&gt;Chair – M. Lee</td>
<td><strong>CNS fuel sensing and the control of food intake</strong>&lt;br&gt;Chairs – R.J. Seeley, T.H. Moran</td>
</tr>
<tr>
<td>8:15  <strong>L. Epstein:</strong>&lt;br&gt;Habitation as a mechanism regulating food intake in humans</td>
<td>8:15  <strong>G. Ronnett:</strong>&lt;br&gt;Fatty Acid Synthase as a Target for Obesity Management</td>
</tr>
<tr>
<td>8:45  <strong>M. Hetherington:</strong>&lt;br&gt;Mechanisms of increasing meal size – the influence of distraction in extending the meal</td>
<td>8:45  <strong>V. Routh:</strong>&lt;br&gt;Glucosensing neurons and brain energy sensing</td>
</tr>
<tr>
<td>9:15  <strong>S. Higgs:</strong>&lt;br&gt;Memory for recent eating and its effects on appetite</td>
<td>9:15  <strong>S. Obici:</strong>&lt;br&gt;Biochemical sensors of nutrient abundance in the CNS</td>
</tr>
<tr>
<td>9:45  <strong>J. Brunstrom:</strong>&lt;br&gt;The role of cognition in dietary learning</td>
<td>9:45  <strong>C. Mobbs:</strong>&lt;br&gt;Glucokinase regulates feeding behavior, hypothalamic gene expression, and body weight</td>
</tr>
</tbody>
</table>


12:00  Lunch – Caminetto’s

13:00  Masterfoods Keynote Lecture Series – Chair: J. deCastro – Grand Ballroom<br>**E. T. Rolls:** Brain processes that underlie the palatability of food.

14:00  Coffee Break
14:30 New Investigator Symposium – Grand Ballroom - Chair: N. Geary

14:35 E. C. Wuorinen*, C. Burant and K.T. Borer: Exercise decreases the CCK response to a meal.


15:20 C. Morens*, V. Sirot, H. Barla, A. Scheurink and G. van Dijk: Dietary macronutrients and leptin signaling affect energy homeostasis.


16:20 Zoe D. Thornton-Jones*, Steven P. Vickers and Peter G. Clifton: The cannabinoid CB1 receptor antagonist SR141716A reduces ingestion of a fat solution through changes in motivational state.

16:35 B. S. Kwon* and T.A. Houpt: Fra-2 expression in the amygdala is increased during conditioned taste aversion as measured by laser capture microdissection and in situ hybridization.


17:05 – 19:30 Poster Session A continued (Wine & Cheese):
Non-homeostatic eating: Posters # A1-A10 - Rotunda
Central Regulation, Peptides: Posters # A11-A27 – Mt. Auburn
Gut-Brain: Posters # A28-A44 – Mt. Echo
Thursday, July 22

8:00 – 14:00  **Registration** – West Pre-function

<table>
<thead>
<tr>
<th>Oral Session 1 – Grand Ballroom Salon A</th>
<th>Symposium 3–Grand Ballroom Salon BC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salt and Water Intake</td>
<td>Too much of a good thing: Neurobiology of drug abuse and non-homeostatic eating</td>
</tr>
<tr>
<td><em>Chairs</em>: K. Curtis, R. Sakai</td>
<td><em>Chairs</em>: R. Corwin, A. Hajnal</td>
</tr>
<tr>
<td>8:00 <strong>M.L. Hoffman</strong>, E.M. Stricker:</td>
<td>8:00 Remarks/NIH sponsorship</td>
</tr>
<tr>
<td>Satiation of thirst associated with the inhibition of gastric emptying of ingested fluids.</td>
<td><strong>K. Simansky</strong></td>
</tr>
<tr>
<td>8:15 <strong>S.A. McCaughey</strong>, C.A. Forestell, M.G. Tordoff:</td>
<td>8:10 Introduction</td>
</tr>
<tr>
<td>Calcium deprivation increases the palatability of calcium-containing solutions in rats.</td>
<td><strong>R. Corwin</strong></td>
</tr>
<tr>
<td>8:30 <strong>E. G. Krause</strong>, T. L. Stincic, K. S. Curtis, R.J. Contreras:</td>
<td>8:30 <strong>G. DiChiara:</strong></td>
</tr>
<tr>
<td>Estrogen effects on AT1 receptors in the subfornical organ: an in situ hybridization study.</td>
<td>Dopamine in disturbances of food and drug motivated behavior: a case of homology?</td>
</tr>
<tr>
<td>8:45 <strong>E. S. Na</strong>, T.G. Beltz, R.F. Johnson, M.J. Morris, A.K. Johnson:</td>
<td>9:00 <strong>A. Kelley:</strong></td>
</tr>
<tr>
<td>Nuclei involved in mediating the motivating and reinforcing properties of enhanced salt appetite.</td>
<td>Neural systems recruited by drug-and food-related cues: studies of gene expression in prefrontal cortex.</td>
</tr>
<tr>
<td>9:00 <strong>W. L. Wilson</strong>, J. W. Harding, J. W. Wright:</td>
<td>9:30 <strong>W. Kaye:</strong></td>
</tr>
<tr>
<td>The Effects of Aminopeptidase Inhibitors on Central AngII and AngIII induced Thirst and Salt Appetite.</td>
<td>Brain imaging after recovery from anorexia and bulimia nervosa: New insights into serotonin and dopamine pathways contributing to eating disorders.</td>
</tr>
<tr>
<td>9:15 <strong>J. A. Freece</strong>, J.E. Van Bebber, D.K. Zierath, D.A. Fitts:</td>
<td>10:00 <strong>D. Roberts:</strong></td>
</tr>
<tr>
<td>Effects of SFO disconnection on drinking and Fos expression in the rat brain following intragastric hypertonic saline.</td>
<td>The reinforcing efficacy of cocaine is increased following specific patterns of binge cocaine self-administration and abstinence.</td>
</tr>
<tr>
<td>9:30 <strong>C.D. Dotson</strong>, A.C. Spector:</td>
<td><em>This symposium is sponsored by the NIH.</em></td>
</tr>
<tr>
<td>The effects of drinking spout orifice size on licking behavior in inbred mice.</td>
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<tr>
<td>9:45 <strong>L.J. Farnbauch</strong>, N.E. Rowland:</td>
<td></td>
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<tr>
<td>Satiation of need-related sodium appetite in rats studied using progressive ratio schedules.</td>
<td></td>
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<tr>
<td>10:00 <strong>E.C. Crews</strong>, N.E. Rowland, K.L. Robertson:</td>
<td></td>
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<tr>
<td>Inhibition of ANG II-induced behavior and Fos-ir by losartan.</td>
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<tr>
<td>10:15 <strong>M.J. McKinley</strong>, P.L. Burns, B.J. Oldfield, K. Sunagawa, R.S. Weisinger:</td>
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<tr>
<td>Diabetic thirst: osmoreceptor stimulation by hyperglycemia in streptozotocin-induced diabetic rats</td>
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<thead>
<tr>
<th>Poster Session B</th>
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</thead>
<tbody>
<tr>
<td>Salt and Water Intake: Posters # B1–B7 – Rotunda</td>
</tr>
<tr>
<td>Taste, Reward and Cognitive Factors: Posters # B8-B25 – Mt. Echo</td>
</tr>
<tr>
<td>Taste, Reward and Cognitive Factors: Posters # B26-B34 – Mt. Auburn</td>
</tr>
<tr>
<td>Stress Factors: Posters # B35-B41 – Mt. Auburn</td>
</tr>
<tr>
<td>Alcohol Intake: Posters # B42-B46 - Rotunda</td>
</tr>
</tbody>
</table>

10:30

Lunch – Caminetto’s
13:00  **Masterfoods Keynote Lecture Series** – Chair: N. Geary - Grand Ballroom  
**James O. Hill:** Can we turn the tide on the obesity epidemic?

14:00  Coffee Break

<table>
<thead>
<tr>
<th>Symposium 4 – Grand Ballroom Salon BC</th>
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<tbody>
<tr>
<td>Metabolic Adaptations in Females: From Birth to Childbirth.</td>
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<tr>
<td><em>Chair</em> – K. Grove</td>
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</tbody>
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<tr>
<th>Oral Session 2 – Grand Ballroom Salon A</th>
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<tbody>
<tr>
<td>Non-Homeostatic Eating:</td>
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<tr>
<td><em>Chairs:</em> L. Thibault, D. A. Levitzky</td>
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<thead>
<tr>
<th>Time</th>
<th>Speaker(s)</th>
<th>Title</th>
<th>Abstract</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:30</td>
<td>M.L. Pelchat, A. Johnson, R. Chan, J. Valdez, J.D. Ragland</td>
<td>Images of Desire</td>
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<tr>
<td>14:45</td>
<td>M. Mach</td>
<td>Emotion-induced changes of eating: toward a unifying framework</td>
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<tr>
<td>15:00</td>
<td>D. A. Levitsky, I. Sunil, F. Skurpki</td>
<td>Environmental Influences on Human Eating Behavior</td>
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<td>15:15</td>
<td>T.M. Dovey, M.F. Ball, K.G. Clark, A. Rodgers, J. Pinkney, J.C.G. Halford</td>
<td>Changes in food intake and microstructure of a meal in response to a physical stressor</td>
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<td>15:30</td>
<td>P.C. Chandler, P.K. Wauford, J.B. Viana, C.R. Maldonado, K.D. Oswald, M.M. Boggiano</td>
<td>Stress-Induced Bingeing After a History of Restriction Involves Opioiergic Sensitization</td>
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<tr>
<td>15:45</td>
<td>J.M. De Castro</td>
<td>The behavioral genetics of dietary density influences on eating</td>
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<tr>
<td>16:00</td>
<td>P. Zoladz, B. Raudenbush, S. Lilley</td>
<td>Impact of the chemical senses on augmenting memory, attention, reaction time, problem solving, and response variability: The differential role of retronasal versus orthonasal odorant administration</td>
<td></td>
</tr>
<tr>
<td>16:15</td>
<td>R. Jenks, S. Higgs</td>
<td>Reactivity to smoking cues in dietary restrained smokers in the presence and absence of food cues</td>
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<tr>
<td>16:30</td>
<td>K.M. Appleton, K. Sapseid, P.J. Rogers, R. Shepherd</td>
<td>Investigation of the development of preferences for flavours paired with caffeine in the real world using interactive technology</td>
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<tr>
<td>16:45</td>
<td>B. Selmaoui, L. Thibault</td>
<td>Changes in ingestive pattern in blinded rats</td>
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<thead>
<tr>
<th>Time</th>
<th>Poster Session B continued (Wine &amp; Cheese)</th>
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<tbody>
<tr>
<td>17:00</td>
<td>Salt and Water Intake: Posters # B1–B7 - Rotunda</td>
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<td>Taste, Reward and Cognitive Factors: Posters # B26-B34 – Mt. Auburn</td>
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<tr>
<td></td>
<td>Stress Factors: Posters # B35-B41 – Mt. Auburn</td>
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<tr>
<td></td>
<td>Alcohol Intake: Posters # B42-B46 - Rotunda</td>
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</table>
## Oral Session 3 – Grand Ballroom Salon BC

**Peptides and Central Regulation**

*Chairs: D.J. Clegg, G. Schwarz*

8:00 **L.F.H. Faulconbridge**, H.J. Grill, J.M.Kaplan: Distinct forebrain and brainstem contributions to the NPY mediation of ghrelin hyperphagia in rats.


9:00 **M.A. Mullet**, C.M. Kotz: Muscimol in the rostral lateral hypothalamus blocks orexin A-induced feeding.


9:45 **M.F. Wiater**, S. Ritter: Sympathetic neurons are not required for either central or peripheral leptin-induced reductions in food intake or body weight.

10:00 **T.A. Lutz**, B. Cettuzzi: Amylin's anorectic effect does not depend on an intact central nucleus of the amygdala (CeA).

10:15 **M. Blecha**, R.D. Reidelberger: Amylin does not interact synergistically with cholecystokinin or insulin to inhibit food intake in rats.

## Oral Session 4 – Grand Ballroom Salon A

**Clinical Studies**

*Chairs: M. Westerterp-Plantenga, R. Mattes*


8:15 **N. Vogels**, M. S. Westerterp-Plantenga: Subject specific treatment of obesity.

8:30 **B.J. Tepper**, G.L. Goldstein, H.L. Daun: Influence of genetic taste sensitivity to 6-n-propylthiouracil (PROP) and maternal variables on energy intake and adiposity in preadolescent children.

8:45 **C.N. Ochner**, M.R. Lowe: Opposing effects of calcium and caloric intake on weight regain following a weight loss diet.


10:00 **K. L.Teff**, M. Petrova, R.R. Townsend: Prolonged mild hyperglycemia: effect on cardiac vagal activity and food intake in humans.

10:15 **M. Ciampolini**: Glycemia estimation as meal signal to order eating and spare insulin.

## Poster Session C

**Central Regulation: Posters # C1–C16 – Mt. Echo**

**Gut-Brain and Peripheral Mechanisms: Posters # C17-C28 – Rotunda**

**Diets and Metabolism: Posters # C29-C40 – Mt. Auburn**

**Gender Differences: Posters # C41-C42 – Mt. Auburn**

**Genetic Studies: Posters # C43-C44 – Mt. Auburn**

10:30

12:00

**Lunch – Caminetto’s**
13:00  **Masterfoods Keynote Lecture Series** – Chair: S.C. Woods – Grand Ballroom  
*Rudolph Leibel*: Molecular physiology of weight regulation.

14:00  Coffee Break

14:30  **Award Lectures** – Grand Ballroom

**Alan N. Epstein Research Award** - Chair: W. Langhans  
*Patricia Sue Grigson, Ph.D.*  
Drugs of abuse and natural rewards: A bidirectional, cross-modal, reward comparison process

**Distinguished Career Award** - Chair: N. Geary  
*Gerard P. Smith, M.D.*  
The four M's of the experience of betting my life on discovering

16:15  **Business Meeting** – Grand Ballroom

16:45  **Women’s Forum** – Grand Ballroom

17:30 – 19:30  **Poster Session C continued** (Wine & Cheese)  
Central Regulation: Posters # C1–C16 – Mt. Echo  
Gut-Brain and Peripheral Mechanisms: Posters # C17-C28 – Rotunda  
Diets and Metabolism: Posters # C29-C40 – Mt. Auburn  
Gender Differences: Posters # C41-C42– Mt. Auburn  
Genetic Studies: Posters # C43-C44– Mt. Auburn
### Symposium 5 – Grand Ballroom
#### Salon A
**Consequences of Exercise on Neural Systems Involved in Food Intake and Body Weight**
*Chair – E. Ladenheim*

8:00 *J. Tou:*
Determinants affecting physical activity in animal models: an overview.

8:30 *J. Van Hoomissen:*
Exercise and the Brain: What do we know?

9:00 *B. Levin:*
Voluntary exercise lowers the defended body weight and prevents compensatory increases in food intake.

9:30 *S. Bi:*
Exercise and Energy balance: lessons from the CCK-A receptor deficient OLETF rat.

### Oral Session 5 - Grand Ballroom Salon BC
**Reward Mechanisms**
*Chairs: P. Grigson, A. Sclafani*

8:00 *B.G. Hoebel,* N.M. Avena, P. Rada:
Daily sugar binging enhances accumbens dopamine release repeatedly, like a drug of abuse, and sham binging eliminates the acetylcholine satiety signal.

8:15 *B.C. De Jonghe,* M. Covasa1, A. Hajnal:
Altered sucrose preference in CCK-A receptor deficient rats.

8:30 *R. I. Geddes,* L. Han, P.S. Grigson:
The Role of the Gustatory Cortex in Drug- and Sucrose-Induced Suppression of Conditioned Stimulus (CS) Intake.

8:45 *J.R. Vasselli,* C.D. Coiro, P. J. Currie:
Decreased sweet solution preference in dietary obese Sprague-Dawley rats.

9:00 *K. J. Simansky,* E. K. Engle, H. G. Frost, V. J. Aloyo, D. M. Nicklous:
The orexigenic action of stimulating i-opioid receptors (iOR) in the parabrachial nucleus (PBN) is associated with increased incorporation of guanosine-triphosphate-g-35S (GTP-g-35S) and c-fos translation.

9:15 *E. Yiin* , K. Ackroff, A. Sclafani:
Deprivation effects on nutrient conditioned flavor acceptance and preference in rats.

Fructose-sweetened beverages promote adiposity in mice.

9:45 *A.M. Doerflinger,* S.E. Swithers:
Inconsistent sweet-calorie pairings impair caloric compensation following sweet meals.

### Coffee Break

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10:00 Coffee Break
Oral Session 6 – Grand Ballroom Salon A
Effects of High Protein and High Fat Diets
Chairs: D. Tome, S.F. Leibowitz

10:30 P.C. Even, L. Makarios, J. Minet-Ringuet, S. Dare, J. Fromentin and D. Tome:
Adaptation in the components of energy expenditure during
transition from a 14% to a 50% protein diet.
10:45 M. Lacroix, C. Gaudichon, J.F. Huneau, V. Mathe, C. Morens, D. Tome:
Beneficial and side-effects of long-term consumption of a high
protein diet in rats.
11:00 B. Beck, S. Richy:
Essential role of ingested energy level vs. food type, for weight
loss in obese Zucker rats.
11:15 M.P.G.M. Lejeune, K.R. Westerterp, M.S. Westerterp-Plantenga:
Satiety and thermogenesis during a high protein diet.
11:30 S.F. Leibowitz, G.Q. Chang:
Positive feedback circuit relating dietary fat, circulating
triglycerides and hypothalamic peptides: possible role in
producing large meals.
11:45 D.M. Savastano, M. Covasa:
Adaptation to high-fat diet leads to short-term hyperphagia.

Oral Session 7 – Grand Ballroom Salon BC
Sex Hormones and Rhythms
Chairs: L. Eckel, G. van Dijk

10:30 L. Asarian, N. Geary:
Estradiol-induced increase in satiation after
intraduodenal Intralipid involves phosphorylation of
CREB in the NTS.
10:45 M.M.N. Nguyen, K.L.K. Tamashiro, L.Y. Ma,
D.A. D’Alessio, S.C. Woods, R.R. Sakai:
Effects of testosterone on body composition in a model of
chronic psychosocial stress.
11:00 J.J.G. Hillebrand, M.P. Koeners, A.J.
Scheurink, G. van Dijk, M.J.H. Kas, R.A.H. Adan:
Leptin treatment in activity-based anorexia.
11:15 J.H. Strubbe, P. van der Velde, G. van Dijk:
Interaction between circadian and energetic control of
feeding behavior.
11:30 M. Ruiter, A. Kalsbeek, R.M. Buijs:
Biological clock control of daily glucose homeostasis.

12:00 Lunch – Caminetto’s

13:00 Masterfoods Keynote Lecture Series – Chair: S. French – Grand
Ballroom
Leanne L. Birch: The development of ingestive behavior during
infancy and childhood.

14:00 Coffee Break
<table>
<thead>
<tr>
<th>Symposia 6 – Grand Ballroom</th>
<th>Oral Session 8 – Grand Ballroom Salon BC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Salon A</strong></td>
<td><strong>Gut - Brain</strong></td>
</tr>
<tr>
<td><strong>Antipsychotic Medications</strong></td>
<td><strong>Chairs:</strong> H. J. Grill, R.C. Ritter</td>
</tr>
<tr>
<td><strong>and Energy Balance</strong></td>
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</tr>
<tr>
<td><strong>14:30 D. Allison:</strong> Beyond the Mere Observation of Weight Gain: What Next?</td>
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<tr>
<td><strong>15:00 M. Cope:</strong> Energetic Factors in Animal Models of Antipsychotic Induced Weight Gain.</td>
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<tr>
<td><strong>15:30 S. McElroy:</strong> Antipsychotic Induced Weight Gain: Psychosocial Effects and Potential Psychosocial Mediating Variables.</td>
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<tr>
<td><strong>16:00 B. Kesterson:</strong> CNS Targets Associated with Antipsychotic Induced Weight Gain.</td>
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<tr>
<td><strong>17:00</strong></td>
<td><strong>Enjoy The Zoo</strong></td>
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<tr>
<td><strong>18:00</strong></td>
<td><strong>Reception</strong></td>
</tr>
<tr>
<td><strong>19:00</strong></td>
<td><strong>Banquet at the Zoo</strong></td>
</tr>
<tr>
<td><strong>Dance the night away</strong></td>
<td></td>
</tr>
</tbody>
</table>
Poster boards are located in Rooms: Mt. Auburn, Mt. Echo and the Rotunda and are one floor below the lecture rooms. Posters are divided into three groups, A, B, C, presented on Wednesday, Thursday, and Friday, respectively. Poster boards are consecutively numbered from 1 – 45. Each day there are two poster viewing times, one from 10:30 to 12:00 noon, and the other from about 17:30 – 19:00, and it is recommended that authors are present through most of these viewing times, but at least during the morning viewing time for even-numbered and during the afternoon viewing time for odd-numbered posters. Posters should be mounted before 10:00 in the morning and removed at the end of the late afternoon poster-viewing period.

**Poster Session A: Wednesday, 10:15 & 17:00**

**Non-Homeostatic Eating**

A 1  **C.M. Mathes, N.E. Rowland:**
Effect of increased food availability on food intake and body weights in rats.

A 2  **M. S. Westerterp-Plantenga, A. H. C. Goris, K. R. Westerterp:**
Analysis of energy density effects from food and drinks separately on average daily energy intake.

A 3  **N. Stroebel, J.M. De Castro:**
Subjective arousal and mood affect people’s eating behavior in the natural environment.

A 4  **G. L. Witcomb, J.M. Brunstrom:**
The role of attention in overeating.

A 5  **J.M. Brunstrom, G.L. Witcomb, T. Baguley:**
Dietary experience in childhood predicts overeating and dietary restraint in adulthood.

A 6  **M. Goldsmith, D. Mumme, R. Kanarek:**
How young children use emotion information from others to make decisions about novel food.

A 7  **J. Deal, S. Plunkett:**
Cognitive Determinants of Restraint and Body Image on Food Intake.

A 8  **J. Deal, S. Plunkett:**
Implicit and Explicit Attitudes of Cognitive Restraint and Body Image on Food Intake.

A 9  **S. Plunkett, Ph.D., L. Fontenot:**
Deprivation effects on meal size and macronutrient intake in humans.

A10  **M.R. Lowe, R. Annunziato, M. Butryn, E. Didie & C. Ochner:**
The conundrum of weight suppression: findings from three studies.

**Central Regulation, Peptides**

A11  **E.G. Tolod-Richer, D.J. Clegg, R.J. Seeley, S.C. Woods:**
Sex differences in the activation of the long form of the leptin receptor.

A12  **S. Wetzler, G. Jean-Joseph, D. Tome, C. Larue-Achagnostis:**
Effects of leptin infusion in rats receiving either a self-selecting or a standard diet on food intake and body weight.
A13  **J. Hao, S. Cabeza De Vaca, K. Carr:** Effects of chronic intracerebroventricular (ICV) infusion of leptin and insulin on motor-activation induced by d-amphetamine in rats.

A14  **T.D. Mitchell, R.B.S. Harris:** Dietary fat and environmental temperature interact to determine body fat content of leptin-treated mice.

A15  **A.Y. Azzara, C. Forlenza, G.J. Schwartz:** Hypothalamic orexigenic peptides stimulate food intake by increasing meal size.

A16  **K. Bugarigh, T.T. Dinh, A.-J. Li, S. Ritter:** Effects of basomedial hypothalamic injection of NPY-saporin on controls of food intake.

A17  **D.K. Sindelar, R.D. Palmiter, S.C. Woods, M.W. Schwartz:** Attenuated feeding responses to circadian and palatability cues in mice lacking neuropeptide Y.

A18  **A.-J. Li, K. Bugarigh, S. Ritter:** Targeted lesion of NPY receptor-expressing neurons in the basomedial hypothalamus: changes in NPY, AGRP and CART gene expression and feeding behavior.

A19  **T.T. Dinh, S. Roland, S. Ritter:** Destruction of NPY-receptor-expressing neurons in the basomedial hypothalamus does not impair glucoprivic feeding.

A20  **L. Lin, D.A. York:** Central melanocortin signaling pathway is required for enterostatin effects.


A22  **K.A. Wilmer, R.J. Seeley:** Melanocortin agonists alter the defended level of body adiposity.

A23  **P.C. Chandler, J. Deberry, J.E. Cox, A. Randich:** IVC Infusion of MTII Increases Activity of Neurons in the Anterior PVN.

A24  **D.L. Drazen, A.D. Strader, T.P. Vahl, R.J. Seeley, S.C. Woods:** Meal-Anticipatory Hypothalamic Neuropeptide Y.


A27  **G.D. Cooper, L.C. Pickavance, A.J. Goudie, J.P.H. Wilding, J.C.G. Halford:** Weight gain, hyperphagia and adiposity following Olanzapine treatment does not significantly influence circulating leptin in rats.

**Gut-Brain**

A28  **P. K. Chelikani, A. C. Haver, R. D. Reidelberger:** Ghrelin attenuates the inhibitory effects of cholecystokinin and peptide YY (3-36) on gastric emptying in rats.

A29  **P. K. Chelikani, R. D. Reidelberger:** Effects of ghrelin on gastric emptying of Peptone, Intralipid, and Polycose in rats.

A30  **P. K. Chelikani, R. D. Reidelberger:** Ghrelin attenuates amylin-induced inhibition of gastric emptying and food intake in rats.

A31  **M. Blecha, R.D. Reidelberger:** Amylin does not interact synergistically with cholecystokinin or insulin to inhibit gastric emptying in rats.
A32  M. Mangiaracina, A. Wolfe, A. Azzara, G.J. Schwartz, B.T. Walsh, N Geary:
The satiating potency of endogenous CCK increases after puberty in female rats.
A33  G. M. Sutton, B. Duas, L. M. Patterson, H. R. Berthoud:
CCK-induced activation of the MEK-ERK-CREB signaling-cascade in NTS neurons is modulated by
melanocortinergic input.
A34  A. Wolfe, M. Massi, N Geary:
Oral ingestion of 10% ethanol does not increase CCK-induced c-Fos expression in the Nucleus Tractus
Solitarius (NTS) of Sardinian alcohol-prefering (sP) rats.
A35  J.E. Cox, G. R. Kelm, S.T. Meller, A. Randich:
Comparison of feeding suppression by intragastric ethyl oleate and other macronutrients.
A36  L. Risinan:
Behavioral and central neural activation effects of amylin agonist in neonatal rats.
A37  C. Becskéi, T. Riediger, D. Zund, P. Wookey, T.A. Lutz:
Immunohistochemical mapping of amylin receptor components in the adult rat brain.
A38  T.C.M. Adam, M.S. Westerterp-Plantenga:
GLP-1 release and satiety after a nutrient challenge in normal-weight and modestly obese subjects.
A39  T.C.M. Adam, M.S. Westerterp-Plantenga:
Effect of weight loss on GLP-1 release in modestly obese subjects.
A40  A. Mura, M. Arnold, W. Langhans:
The effect of Ghrelin on gastric vagal nerve afferents activity in rats.
A41  B.R. Treece, R.C. Ritter, G.A. Burns:
NMDA channel control of meal size via central vagal afferent terminals.
A42  A.L. Tracy, R.J. Phillips, M.M. Chi, T.L. Powley, T.L. David:
Pairing nutrient infusions in the duodenum with malaise (“intestinal taste aversion” paradigm) alters oral
intake and selection of nutrients.
A43  A.J.P.G. Smeets, M.S. Westerterp-Plantenga:
Satiety and metabolic responses after modified sham feeding.
A44  A. Weller, L. Tsitolovskya, G.P. Smith:
The postigestive inhibitory effect of peptone emerges in rats between postnatal days 13-18.

Poster Session B:  Thursday, 10:30 & 17:00

Salt & Water Intake

B1  R.L. Thunhorst, T.G. Beltz, A.K. Johnson:
Sodium preference and angiotensin-stimulated thirst in aged rats
B2  K. S. Curtis, C. M. Herrera, J. L. Tanner, J. M. Stratford, E.G. Krause, R. J. Contreras:
Sex differences in Furosemide-induced NaCl and water intake by rats: relation to plasma volume and Na+
concentration.
B3  L.A. De Luca Jr., D.T.B. Pereira, R.B. David, R.C. Vendramini, J.V. Menani:
Mineral intake by cell-dehydrated rats.
B4  M.J. Denbleyker, C.J. Riccardi, T.A. Houp, J.C Smith:
Patterns of food and water ingestion during periods of deprivation in rats.
B5  E.M. Stricker, J.G. Spicer, M.L. Hoffmann:
Rapid osmoregulation when rats consume high salt diet: the role of gastric chyme.
Moxonidine into the lateral parabrachial nucleus increases meal-associated hypertonic NaCl intake in rats.
B7  M.L. Hoffmann, E.M. Stricker:
Satiation of thirst associated with the inhibition of gastric emptying of ingested fluids.
Taste, Reward and Cognitive Factors

B8  L.D. Reid, K.J. Boswell, A.M. Lacroix, C.A. Caffialette, M.L. Reid:
Withdrawal from extensive intake of chocolate cake mix batter by female rats induces more weight loss than observed after withdrawal from white cake mix batter.

B9  A. Sclafani:
Sucrose motivation in sweet ‘nontaster’ (129P3/J) and ‘taster’ (C57BL/6J) mice.

B10 A. Sclafani:
Enhanced sweetener preference in sweet ‘nontaster’ (129P3/J) and ‘taster’ (C57BL/6J) mice after experience with sucrose.

B11 B.K. Smith Richards, B. York, B.N. Belton, J. Volaufova:
Effect of short-chain acyl-CoA dehydrogenase (SCAD) deficiency on response to sucrosepolysoyate oil in brief access taste tests.

B12 K.M. Appleton, P.J. Rogers, R. Shepherd:
Validation of the computerized measurement of appetite and mood using a Palm Pilot 500 hand-held computer.

B13 E.R. Atton, M.R. Yeomans:
Mechanism(s) underpinning short-term change in the hedonic evaluation of snack foods.

B14 D.A. Klein, G.B. Boudreau, M.J. Devlin, B.T. Walsh:
Use of Artificially Sweetened Products in Eating Disorders.

B15 H. Zheng, H.-R. Berthoud:
Role of hypothalamus in nucleus accumbens-induced intake of palatable food.

B16 R. Corwin, F.H.E. Wojnicki, D.C.S. Roberts:
Operant responding for shortening in non-food-deprived rats.

B17 A. Lindqvist, J. Mei, A. Andreasson, C. Dornonville De La Cour, C. Erlanson-Albertsson:
Fat and sucrose - energy substrates or reward signals?

B18 R. Corwin, F.H.E. Wojnicki, A. Buda-Levin:
Baclofen reduces fat intake in "bingeing" rats.

B19 N.T. Bello, M.R. Brockley, A. Hajnal:
Male Sprague Dawley rats lack a preference for sucralose solutions.

B20 K. Ackroff, A. Sclafani:
Protein content of the maintenance diet influences flavor preferences conditioned by intragastric protein and carbohydrate in rats.

B21 G.L. Witcomb, J.M. Brunstrom:
Flavour-flavour learning is influenced by restrained eating and attitudes towards food.

B22 S. Taha:
Relative reward encoding in the firing of nucleus accumbens neurons.

B23 M.R. Yeomans, S. Mobini, T.D. Elliman, H.C. Walker:
Changes in the sensory and hedonic characteristics of odours conditioned by association with tastants.

B24 M.J. Will, V.M. Vander Heyden, T. Lavaute, A.E. Kelley:
Influence of motivational state (food-restriction) and food intake on striatal preproenkephalin and hypothalamic neuropeptide Y gene expression profiles.

B25 C.C. Hodgkins, K. Frost-Pineda, M.S. Gold:
Weight gain during supervised drug abstinence: Does food compete for brain reward?

B26 K. Davis, P. J. Wellman, J. R. Nation, L. Bellinger:
Concurrent measures of feeding and locomotion after psychostimulant drug treatments.

B27 D.J. Snyder, V.B. Duffy, A.K. Chapo, L.M. Bartoshuk:
Otitis media and head trauma influence adult body mass: Separate and combined effects.
B28  
_A. Schuler, A. Rawson, B. Raudenbush:_
Effects of beverage flavor on athletic performance, mood, and workload.

B29  
_A. Schuler, B. Raudenbush, R. Grayhem:_
Effects of hunger level, fasting, and body composition measurements on pain threshold and tolerance.

B30  
_M.W. Warren, K. Frost-Pineda, M.S. Gold:_
Body mass index (BMI) and marijuana use.

B31  
_C. Yamamoto, T. Yamamoto:_
Effects of taste perception on digestion, stress and immunity in rats.

B32  
_R.A. Davenport, T.A. Houpt:_
D-Cycloserine potentiates short-delay, but not long-delay, conditioned taste aversion.

B33  
_Y. Yasoshima:_
Role of noradrenergic transmission in the amygdala in retrieval of long-term taste aversive memory.

B34  
_J. Mueller, M. Macht:_
Changes of emotional reactions by chocolate-eating.

**Stress Factors**

B34  
Lithium-induced gene expression in the rat hypothalamus.

B35  
_M. Macht, C. Haupt, H. Ellgring:_
Eating as a distraction from stress: An experience-sampling study.

B36  
_N. Simler, A. Peinnequin, A.X. Bigard:_
Enhanced expression of the hypothalamic leptin receptor after repeated neurogenic stress.

B37  
_M.T. Foster, M. B. Solomon, K.L. Huhman, T. J. Bartness:_
Social Defeat Increases Food Intake and Body and Fat Masses in Syrian Hamsters.

B38  
_J.W. Jahng, B. Shin, Y.W. Moon:_
Effect of restraint stress on the adrenal steroidogenesis of mouse fed with high salt diet.

B39  
Dexamethasone modulates brain monoamine levels and feeding differentially in pre-pubertal and pubertal female rats.

B40  
Dexamethasone decreases food intake and body weight, increases serotonin turnover in the brain.

B41  
Enhanced glucose tolerance following recovery from social stress.

**Alcohol Intake**

B42  
_D. Economidou, R. Ciccocioppo, C. Polidori, N. Geary, M. Massi:_
CCK-8 reduces ethanol self-administration in alcohol-preferring rats.

B43  
_N.E. Rowland, N. Nasrallah, K.L. Robertson:_
Alcohol presentation in Polycose or beer vehicles and caloric compensation in rats.

B44  
_A.E. Kosobud, G.V. Rebec, W. Timberlake:_
The effects of rate-limited feeding on meal patterning, intake, and anticipation of daily limited access to alcohol solutions in HAD rats housed without time-of-day cues.

B45  
_D.F. Johnson, M.J. Lewis, P. Rada, N.M. Avena, S.F. Leibowitz, B.G. Hoebel:_
Ethanol intake is increased by 3rd ventricle or PVN galanin injection and reduced by a GAL antagonist.
**Central Regulation**

**C1**  P.J. Currie, A. Mirza, A. Mihes, K. Sriracharoon, N. Tal, P. Niedle:  
Ghrelin and neuropeptide Y: orexigenic and metabolic signaling molecules exhibit an interaction with urocortin in the paraventricular nucleus of the hypothalamus.

**C2**  S.E. Kanoski, E.A. Walls, T.L. Davidson:  
Role for Ghrelin as an Interceptive Discriminative Cue.

**C3**  E. A. Duncan, S. C. Woods:  
Melanin-concentrating hormone (MCH) stimulates intake of alcohol but not an isocaloric sucrose solution in rats.

**C4**  T. Yamamoto, Y. Furudono:  
The role of the hypothalamic neuropeptides on ingestive behavior of taste fluid in rats.

**C5**  S.H. Choi, J.G. Kim, D.G. Kim, J.W. Jahng:  
Ketanserin blocked hypophagia, but not the PVN-pERK, induced by systemic 5-HTP in rats.

**C6**  J.B. Chambers, D.J. Clegg, L.M. Brown, R.J. Seeley, A.Z. Zhao:  
Intracellular signaling by phosphodiesterase 3B is involved in the food intake and body weight reducing effects of centrally administered insulin.

**C7**  F. Brugnoli, C. Polidori, A. Pathak, Y. Durocher, P. Rouet:  
Resistin affects feeding behavior in rats.

**C8**  A.D. Strader, D.J. Clegg, S.C. Benoit, R.J. Seeley:  
The role of brain-derived neurotrophic factor (BDNF) in food intake and body weight regulation.

**C9**  C.R. Rooks, T. Bennet, T.J. Bartness, R.B.S. Harris:  
Compensation for an increase in body fat caused by donor transplants into mice.

**C10**  M.P.G.M. LeJeune, C.J. Mukshorn, W.H.M. Sarris, M.S. Westerterp-Plantenga:  
Reversal of hormone concentrations during phases of body weight loss with or without PEG-OB.

Melanin-concentrating hormone (MCH)-induced water consumption is blocked by losartan, a specific angiotensin receptor antagonist.

**C12**  M.M. Messina, S.A. Evans, S.J. Swoap, J.M. Overton:  
Perinatal MSG treatment attenuates fasting-induced bradycardia and metabolic suppression.

**C13**  S. Wetzler, S. Dare, C. LaRue-Achagiotis, D. Tome, P.C. Even:  
Metabolic responses to ICV leptin injection in fed and fasted rats.

**C14**  T.J. Koehne, D.W. Gietzen:  
Rapid changes of intracellular amino acid concentration in simulated anterior piriform cortex in response to amino acid deficiency.

**C15**  G. Scalera:  
Melatonin treatment influences hoarding behavior in rats.

**C16**  J.L. Lachey, S.M. Sternson, C.E. Lee, J.K. Elmquist, J.M. Friedman:  
Molecular neuroanatomic characterization of central leptin targets.

**Gut – Brain and Peripheral Mechanisms**

**C17**  L. Asarian, N. Geary:  
Estradiol-induced increase in satiation after intraduodenal Intralipid does not increase c-Fos expression in catecholaminergic cells in the NTS.
C18  **T. Kondoh, E. Tabuchi, H. Nishijo, R. Tamura, T. Ono, K. Torii:**
Experience-based plastic changes in nucleus tractus solitarius neurons in lysine-deficient rats.

C19  **T.C.M. Adam, M.S. Westerterp-Plantenga:**
GLP-1 release in obese subjects before and after weight loss and weight maintenance.

C20  **B.R. Ellison, W.W. Bignell, W.L. Grovum:**
Stepwise distension and cholecystokinin octapeptide (CCK-8) excited slowly adapting gastric mechanoreceptors in pigs.

C21  **M. S. Westerterp-Plantenga, A. Smeets, M. P. G. LeJeune:**
Oral and gastro-intestinal satiety effects of capsaicine on food intake.

C22  **K. Brandt, W. Langhans, M. Leonhardt:**
Transient improvement of insulin sensitivity by hydroxyacetate (HCA) in fructose-induced insulin resistant rats.

C23  **A. Morin, J. Moore, E. Zager, D. Clegg, L.M. Brown, T.W. Castonguay:**
Hepatic 11β Hydroxysteroid Dehydrogenase -1 mRNA in obese and lean Zucker rats.

C24  **J.E. Cecil, M.M. Hetherington, W. Wrieden, P. Watt, C. Bolton-Smith, C. Palmer:**
Interaction between β-3 adrenoreceptor and PPAR? variants in modulating energy compensation.

C25  **D.L. Williams, L.A. Sadacca, J.S. Carmody, J.M. Kaplan, H.J. Grill:**
Dissociation of ingesive and thermal responses to lipopolysaccharide in chronic decerebrate rats.

C26  **D. Arsenijevic, W. Langhans:**
Role of peroxisome proliferator activated receptor beta (PPARb) in lipopolysaccharide(LPS)-induced anorexia.

C27  **S. Williams, X.Q. Xiao, B.E. Grayson, M.S. Smith, K.L. Grove:**
Programming metabolic systems through early postnatal nutrition in the rodent.

C28  **J.P. Kirwan, M. Jing, A. Varastehpour, L. Presley, P.M. Catalano, J.E. Friedman:**
Reversal of insulin resistance postpartum is linked to enhanced skeletal muscle insulin signaling.

**Diets and Metabolism**

C29  **A. Marisset-Baglieri, G. Fromentin, D. Tome, A. Bensaid, L. Makkarios, P.C. Even:**
Increasing Protein Content in a Protein-Fat, Carbohydrate-Free Diet enhances Fat Loss during a Mild but not a Severe Food Restriction in the Rat.

C30  **P.C. Even, L. Makkarios, J. Minet-Ringuet, S. Dare, J. Fromentin, D. Tome:**
Changes in body composition and metabolic adaptations during transition from a 14% to a 50% protein diet.

C31  **C. Wuller, M.J. Morris, B.J. Oldfield:**
The role of thermogenesis in the resistance to diet induced obesity.

C32  **N. Vogels, M. S. Westerterp-Plantenga:**
Predictors of weight regain after weight loss.

C33  **J.F. Wilson, M. Mehicic, T. Beaverson, D.Y. Carter, S. Fahrbaugh:**
Changes in Food Intake and Body Mass Index of Children over a Ten-Year Period.

C34  **A.L. Christman, A.D. Parsons, A.A. Fox, J.M. Overton:**
Metabolic and behavioral responses to two caloric restriction paradigms in mice.

C35  **S.A. Evans, A.D. Parsons, J.M. Overton:**
Divergent response to caloric refeeding in Sprague-Dawley and Long Evans rats.

C36  **S.S. Iyer, L.A. Boateng, R. Lopes, P. Lokko, J.B.R. Monteiro, R.D. Matte:**
Effects of peanut oil consumption on appetite and food choice.

C37  **H.S. Jurgens, S. Ortmann, S. Klaus, R. Kluge, C. Thone-Reineke, T.R. Castaneda, A. Schurmann H.G. Joost, and M.H. Tschop:**
Reduced Thermogenesis in New-Zealand Obese (NZO) Mice.

C38  **R. Faipoux, G. Fromentin, A. Bensaid, D. Tome:**
Effect of high protein diet on central nervous system revealed by Fos protein activation.
C39 D. L'Heureux-Bouron, A. Blais, J.F. Huneau, G. Fromentin, D. Tome:
Regulation by L-leucine of system A amino acid transport in neurons and glial cells.

C40 B. Selmaoui, J. Paquet, L. Thibault:
Dietary selection paradigm and its reliability for the nycthemeral intakes of water and macronutrients.

Gender Differences

C41 D.P. Dixon, H.M. Rivera, L.A. Eckel:
Estrous-related changes in ingestive and locomotor activity in relation to changes in vaginal cytology across the rat's 4-day estrous cycle.

C42 P. Wiedmer, M. Boschmann, S. Klaus:
Gender specific adaptations in energy balance following implantation of artificial weight loads in mice.

Genetic Studies

C43 M.G. Tordoff, S.A. Doman, E.A. Byerly, D.M. Pilchak, A.A. Bachmanov, D.R. Reed:
Genetic loci related to bone and body composition identified by genotype-phenotype association of 40 inbred mouse strains.

C44 S.A. Doman, E.A. Byerly, D.M. Pilchak, A.A. Bachmanov, D.R. Reed, M.G. Tordoff:
Bone and body composition of 40 inbred mouse strains.
Abstracts for the 2004 SSIB meeting have been published in Appetite Vol. 42 (3), pages 335-416, 2004. Abstracts not published in Appetite per the authors’ request are printed below in alphabetical order.

**Interaction between β-3 adrenoreceptor and PPARγ variants in modulating energy compensation.**

J.E. CECIL1, M.M. HETHERINGTON 6, W.WRIEDEN6, P. WATT4, C. BOLTON-SMITH5, C. PALMER2.

Departments of Psychology1, Biomedical Research2, Epidemiology & Public Health3, University of Dundee1,2,3, Sport & Exercise Science, University of Brighton4, MRC Human Nutrition, University of Cambridge5 & Psychology, University of Liverpool6 UK. The peroxisome proliferator-activated receptor γ (PPARγ) is a crucial regulator of adiposity and energy balance. PPARγ is important in differentiation of fat cells from fibroblasts and muscle, and polymorphisms located within this gene have been linked to obesity. Other candidate obesity genes include β-adrenoreceptor (BADR) subtypes (β-3), UCP2 and UCP3. This study investigated whether common variants in these genes were associated with eating behaviour. Subjects included a PPARγ variant enriched sub-cohort of children (n=80) aged 4-9 yrs. Ad libitum food intake from a test-meal was measured, 90min following ingestion of either a no energy (NE: 250ml water), low energy (LE: 187kcal) or high energy (HE: 389kcal) preload. LE and HE preloads consisted of 56g muffin + 250ml orange-juice. Satiety was assessed by a model of energy compensation, using a compensation index (COMP-X) to determine the precision of caloric compensation. Analysis of COMP-X revealed no main effects of preload condition, sex or weight category (lean, overweight, obese) on ability to compensate at the test-meal. However, COMP-X was associated with gene model, with a significant interaction of Trp64Arg and C1431T in modulating COMP-X (p=0.001). Poor COMP-X (<50%) was associated with the presence of a T1431 allele (of C1431T polymorphism), whereas good COMP-X (>50%) was associated with the presence of an Arg allele. Previous studies have shown an interaction between BADR3 and PPARγ variants in modulating adult body weight, however this is the first study to suggest such a genetic interaction in modulating eating behaviour.

**Reversal of Insulin Resistance Postpartum is Linked to Enhanced Skeletal Muscle Insulin Signaling**

J.P. KIRWAN, M.JING, A. VARASTEHPOUR, L. PRESLEY, P.M. CATALANO, AND J.E. FRIEDMAN. Dept. of Reproductive Biology, Case Western Reserve University, and Dept. of Pediatrics, Biochemistry and Molecular Genetics, University of Colorado Health Sciences Center, Denver, CO, 80262. Insulin resistance is a well described feature of late human pregnancy, and is a necessary metabolic adaptation that facilitates the provision of nutrients to the growing fetus. The present study describes the potential cellular mechanisms underlying the changes in insulin sensitivity in women from late pregnancy to postpartum. Nine non-obese women (Age, 32 ± 2 yrs; BMI, 21.2 ± 0.8) with normal glucose tolerance were studied during late pregnancy (30-36 weeks) and again ~1 year postpartum using a euglycemic-hyperinsulinemic clamp to determine insulin sensitivity. Vastus lateralis muscle biopsies were obtained in the basal state prior to each clamp. Insulin sensitivity improved 89% at 1 year postpartum, P<0.005. Skeletal muscle insulin receptor (IR) protein increased 42% P<0.05, however insulin stimulated IR tyrosine phosphorylation and IR tyrosine kinase activity were unchanged. IRS-1 expression increased 69% (P=0.05) and the level of IRS-1 Ser312 phosphorylation (a negative regulator of insulin signaling) was significantly reduced by 50% from late pregnancy to post-partum. The change in insulin sensitivity correlated highly with the change in IRS1 protein (r = 0.84, P<0.007) and inversely with IRS-1 Ser312 phosphorylation (r = 0.79, P<0.01). In addition, the p85/1 regulatory subunit of phosphatidylinositol (PI) 3-kinase was markedly reduced by 55% (P<0.02) postpartum. These findings suggest that changes in IRS-1 play a crucial role in the reversal of skeletal muscle insulin resistance one year postpartum, and suggest that a constitutive increase in IRS-1 Ser312 phosphorylation may be involved in triggering IRS-1 degradation, contributing to the insulin resistance phenotype of normal human pregnancy.
**Leptin treatment in activity-based anorexia.** J J.G. Hillebrand, M.P. Koeners, A.J. Scheurink, G. van Dijk, M.J.H. Kas and R.A.H. Adan. Rudolf Magnus Institute of Neuroscience, Department of Pharmacology and Anatomy, UMC Utrecht. Universiteitsweg 100, 3584 CG Utrecht, The Netherlands. Activity-based anorexia (ABA) is an animal model for anorexia nervosa, which models hypophagia and hyperactivity. In ABA rats are food restricted (one hour food access per day) and have access to a running wheel. The combination of these two factors leads to a fast and severe body weight loss; rats eat even less than is possible in one hour while running wheel activity is increased. We hypothesize that ABA is caused by decreased leptin signaling as a consequence of starvation. Indeed, it has been shown before that leptin treatment of starved rats decreased hyperactivity in a semi-starvation induced hyperactivity model (SIH) (Exner et al, 2000). In the study described here, we further investigated the role of leptin in the ABA model. Rats were chronically infused (5 days) with 4 fJg leptin per day (or saline) into the lateral ventricle. ICV infusion of leptin in the ABA model resulted in practically absence of running wheel activity in the dark phase (p=0.001) and light phase (p=0.001). As well leptin treatment further decreased food intake (p=0.000). Leptin treatment did not improve physical condition of rats exposed to the ABA model, but in fact, decreased survival of rats in the ABA model. The beneficial effect of decreased energy expenditure (running activity) following leptin treatment was counterbalanced by hypophagia. We hypothesize that leptin also influences other aspects of energy expenditure, e.g. metabolic rate, which might contribute to a decreased survival in the ABA model. We conclude that leptin treatment decreases survival in ABA and is therefore not recommended as pharmacotherapy in anorexia nervosa patients.

**Antipsychotic induced weight gain: Psychosocial effects and potential psychosocial mediating variables.** Susan L. McElroy, University of Cincinnati College of Medicine. Obesity and psychopathology are interconnected in complex and manifold ways. Obesity can both contribute to psychopathology and be contributed to by psychopathology. The pattern of association tends to vary radically by sex and form of psychopathology. Obesity can complicate the treatment of psychological disorders and vice versa. Dr. McElroy will discuss evidence for these interconnections. She will then describe results from randomized clinical trials of weight loss compounds and programs among people being treated for psychological conditions.

**Changes of emotional reactions by chocolate-eating.** J. MÜLLER & M. MACHT. Institute for Psychology, University of Würzburg, 97070 Würzburg, Germany. Many studies show that negative emotions increase eating behaviour. A central hypothesis postulates that eating behaviour increases in presence of negative emotions, because it supports coping with or regulation of these emotions. Despite support from field and questionnaire studies, no convincing experimental evidence for this hypothesis has been provided. To test this hypothesis, a healthy, normal weight sample (25 men, 35 women) with a mean age of 25.3 years was randomly divided into two groups of n = 30 participants each. During the experiment the participants watched three short films which induced joy, sadness, or a neutral emotional state. After each film the participants received food: one group ate pieces of chocolate and the second group drank water. Before and after each film and food intake the participants indicated their current mood and emotions. Additionally, cardiovascular and electrodermal activity and finger temperature were recorded continuously. Results showed a differential effect of chocolate-eating on negative and positive mood. In contrast to the intake of water, chocolate-eating reduced negative mood induced by the sadness-film but did not change positive mood induced by the joy-film. Further, joy induced by the joy-film significantly decreased after the intake of water but remained unchanged after chocolate-eating. Results provide support for the above mentioned hypothesis, indicating that emotion regulation eating can reduce negative mood, but has less impact on positive mood.

**Biochemical sensors of nutrient abundance in the CNS.** S. OBICI, A. POCAI, T. LAM, K. MORGAN, L. ROSSETTI. Department of Medicine, Albert Einstein College of Medicine, Bronx, 10461, NY, USA. All cells possess biochemical sensors of nutrient availability, which initiate adaptive responses to abundance or scarcity of fuel. In multicellular organisms, a complex system of neuronal and hormonal signals maintains energy balance and biochemical homeostasis. Nutrient sensing pathways are involved in the control of energy homeostasis by indirect mechanisms (increasing the expression and release of counterregulatory hormones, e.g. leptin, insulin etc.) or by directly modulating efferent signals in the Central Nervous System. Recent evidence has implicated malonyl-CoA and the metabolism of long-chain fatty acyl-CoAs (LCFA-CoAs) as cellular sensors of nutrient abundance in the hypothalamic arcuate nucleus. In particular, conditions which increase the levels of hypothalamic LCFA-CoAs decrease food intake and endogenous glucose production. In rat strains susceptible to diet-induced obesity, voluntary hyperphagia leads to an alteration of the hypothalamic lipid sensing pathway, suggesting that a disruption of these homeostatic responses may contribute to the pathophysiology of obesity.
Glucosensing neurons as CNS nutrient sensors. V.H. ROUTH. Dept. of Pharmacology and Physiology, New Jersey Medical School, Newark, NJ 07103. Neurons within the hypothalamus change their firing rate in response to changes in extracellular glucose levels. These neurons exist in nuclei such as the arcuate (ARC) and ventromedial hypothalamic nucleus (VMN) which are important for the regulation of food intake and energy balance and/or body fat content. We have shown that the glucose sensitivity of glucosensing neurons is highly tuned to sense extracellular glucose levels within the physiological range. Moreover, glucosensing involves a complex convergence of pre- and postsynaptic mechanisms. That is, there are populations of glucosensing neurons which intrinsically sense glucose using mechanisms similar to that of the pancreatic <font face=symbol>b</font>-fn-cell. These neurons, as well as non-intrinsically glucosensing neurons, receive presynaptic input from other glucosensing neurons. In addition to sensing glucose, the activity of glucosensing neurons is also regulated by lactate. Surprisingly, the effects of lactate on glucosensing neurons are distinct and, in some cases, opposite to those of glucose. Glucosensing neurons are integrators of critical signals of energy balance, including insulin, leptin, and euglycemic insulin and <font face=symbol>a</font>-melanocyte stimulating hormone. Finally, glucosensing neurons are dysfunctional in rats which are prone to develop dietary obesity and type 2 diabetes mellitus. These data suggest that glucosensing neurons may play a role in CNS nutrient sensing. The mechanisms by which glucosensing neurons sense and respond to changes in extracellular nutrients will be discussed in this presentation.

Relative reward encoding in the firing of nucleus accumbens neurons. S.A. TAHA, H.L. FIELDS. Limbic circuits are important modulators of consummatory behaviors. Elegant pharmacological studies have demonstrated that the nucleus accumbens (NAcc), a forebrain structure implicated in motivation and reinforcement, exerts a powerful tonic inhibition on downstream nuclei controlling food intake, including the lateral hypothalamus. This striato-hypothalamic circuit appears to play twin roles: widespread disinhibition of hypothalamic target neurons may gate feeding episodes, and opioid neurotransmitters acting in the NAcc appear to regulate the palatability of food items. Elucidating the role of this circuit requires a better understanding of the precise information encoded in the firing of NAcc neurons during consummatory behaviors. We used multi-electrode arrays implanted in the NAcc of behaving rats to characterize neural firing in this structure during short bouts of consumption of sucrose reinforcers varying in palatability. A subset of NAcc neurons is sensitive to reinforcer palatability; for most of these neurons, modulations in response to the reinforcer are excitatory and increase monotonically with increasing palatability. Palatability-modulated responses are, in many cases, sensitive to the relative reward value of the reinforcers. Finally, a large subset of recorded units (~30%) is inhibited during consumption. A majority of these inhibitions precede the onset of the consummatory behavior itself. These results suggest a key role for NAcc neurons in 1) "gating" consummatory bouts through disinhibition and 2) guiding decisions about food choice through encoding of the relative reward value of palatable food items. The latter modulations are a candidate neural substrate for opioid modulation of palatability in the NAcc.

Prolonged mild hyperglycemia: effect on cardiac vagal activity and food intake in humans. K. L.TEFF, M. PETROVA, R.R.TOWNSEND. Monell Chemical Senses Center and University of Pennsylvania, Philadelphia, USA. The objectives of the present study were to determine how prolonged (48-h) elevations in blood glucose influence cardiac vagal activity, hormonal responses to ingested nutrients and food intake in human subjects. Lean men and women (n=14) were tested under 2 randomized experimental conditions: 1) 48-h saline infusion (50 ml/hr) and 2) 48-h glucose infusion (15% glucose;200 mg/m2/min). Blood samples and blood pressure (BP) were taken every 2 hours. Heart rate (HR) variability using a Holter Monitor was monitored continuously over the 48-h period. Food intake was measured during the 48-h period. Three hours after the infusion, subjects ingested a mixed nutrient meal (600 kcal) and blood samples taken. Mean 48-h glucose levels were 98±6.4mg/dL, saline compared with 113.5±5.5 mg/dL, glucose (P<0.0001). Mean insulin levels were 28.5±5.7 uU/mL, saline compared with 57.3±10 uU/mL, glucose (P<0.0001). Mean plasma leptin levels were also significantly elevated after the glucose infusion (5.2±3.6 ng/mL, saline vs. 7.5±6 ng/mL, P<0.001). Prolonged hyperglycemia decreased the night to day differences in heart rate variability (12.4±12.2 ms, saline vs. 3.1±10.0 ms, glucose p<0.03), increased HR (61±10 bpm, saline vs. 67±7 bpm, glucose, P<0.05) and systolic (BP)(107.5±10.5 mmHg, saline vs. 113.9±13.2 mmHg glucose, p=0.02) on the second day of hyperglycemia. No significant differences in food intake or hunger ratings during the 48-h infusions were observed during the two treatments. Postprandial insulin and glucose levels were significantly reduced following the glucose infusion compared to the saline. These data suggest that relatively mild, short term increases in blood glucose can influence cardiac vagal activity and
hormonal responses to a meal but that 48-h is insufficient for caloric compensation to nutrient infusion to occur in humans.

Intestinal glucose absorption is delayed by hydroxycitrate (HCA). P.Y. WIELINGA¹, R.E. WACHTERS-HAGEDOORN², B. BOUTER¹, A. NIEUWHUIZEN², H. VERKADE², A.J.W. SCHEURINK¹. ¹Department of Neuroendocrinology, University of Groningen, PO Box 14, 9750 AA Haren, The Netherlands, ²Center for Liver, Digestive and Metabolic Diseases, Department of Pediatrics, University Hospital, Groningen, The Netherlands and ³Numico Research, Wageningen, The Netherlands. Several studies have shown that hydroxycitric acid (HCA) is a food supplement that reduces food intake in rodents. In this study we focus on a possible inhibitory effect of HCA on glucose absorption, which may indirectly explain the food intake reducing effect. In rats, an intragastric (ig) glucose load was infused for 5 min, two hours after ig administration of either Regulator HCA (310 mg/kg) or vehicle. Before and after infusion, blood samples were withdrawn using a permanent jugular vein catheter. The glucose response to an ig load of glucose (9 ml, 0.123 g/ml ig) was strongly attenuated in the HCA treated group. In the consecutive experiment, glucose (2 ml, 0.123 g/ml) was given intraduodenally (id). This still resulted in an attenuated blood glucose response, excluding delayed gastric emptying as the underlying mechanism. We used Steele’s isotope dilution method to investigate whether a reduced intestinal glucose absorption may explain the attenuated glucose response after ig and id glucose infusion. The data revealed that HCA treatment caused a delay of glucose absorption from the gut into the circulation. The total uptake during the experiment, as reflected by the area under the curve, was not different in the two groups. In conclusion, the data suggest that HCA may delay the removal of glucose from the gut which may contribute to the satiating effect of HCA on food intake.
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SSIB and how to join

SSIB is a professional organization of research scientists who study eating and drinking behavior. The Society’s main goal is to advance the study of ingestive behavior by facilitating communication among its members. “Intake” is the Society’s periodic newsletter.

SSIB membership information and applications are available at the meeting registration desk, at the SSIB website (http://www.ssib.org), or by writing to the Central Office (address below).

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SUMMARY SCHEDULE

Tuesday, July 20
09:00 – 18:00  Registration – West Pre-function
11:00 – 13:00  LRPC meeting – 202 University Board Room
15:00 – 17:00  Board Meeting – 202 University Board Room
18:00 – 19:00  Welcome Reception – Fifth Third Plaza

Wednesday, July 21
08:00 – 14:00  Registration – West Pre-function
08:00 – 8:05  Welcoming Remarks  Robert A. Frank
08:05 – 8:10  Opening Remarks - Pres. N. Geary – Grand Ballroom
08:15 – 10:15  Symposium 1 – Grand Ballroom Salon A, Cognitive Control of food intake in humans
12:00  Lunch – Caminetto’s
13:00  Masterfoods Keynote Lecture Series - Grand Ballroom - E.T. Rolls
14:00  Coffee Break
14:30  New Investigator Symposium – Grand Ballroom
17:05 – 19:30  Poster Session A continued (Wine & Cheese)

Thursday, July 22
08:00 – 14:00  Registration – West Pre-function
08:00 – 10:30  Oral Session 1 – Grand Ballroom Salon A, Salt and Water Intake
12:00  Lunch – Caminetto’s
13:00  Masterfoods Keynote Lecture Series – Grand Ballroom - James O. Hill
14:00  Coffee Break
14:30 – 17:00  Symposium 4 – Grand Ballroom Salon BC, Metabolic Adaptations in Females: From Birth to Childbirth.
17:00  Oral Session 2 – Grand Ballroom Salon A, Non-Homeostatic Eating
17:00  Poster Session B continued (Wine & Cheese)

Friday, July 23
08:00 – 10:30  Oral Session 3 – Grand Ballroom Salon BC, Peptides and Central Regulation
10:30  Poster Session C: Central Regulation: Posters # C1–C16 – Mt. Echo; Gut-Brain and Peripheral Mechanisms: Posters # C17-C28 – Rotunda; Diets and Metabolism: Posters # C29-C40 – Mt. Auburn; Gender Differences: Posters # C41-C42 – Mt. Auburn; Genetic Studies: Posters # C43-C44 – Mt. Auburn
12:00  Lunch – Caminetto’s
14:00  Coffee Break
14:30  Award Lectures – Grand Ballroom
16:15  Business Meeting – Grand Ballroom
16:45  Women’s Forum – Grand Ballroom
17:30 – 19:30  Poster Session C continued (Wine & Cheese)

Saturday, July 24
08:00 – 10:00  Symposium 5 – Grand Ballroom Salon A, Consequences of Exercise on Neural Systems Involved in Food Intake and Body Weight
10:00  Oral Session 5 - Grand Ballroom Salon BC, Reward Mechanisms
10:00  Coffee Break
10:30 – 12:00  Oral Session 6 – Grand Ballroom Salon A, Effects of High Protein and High Fat Diets
12:00  Lunch – Caminetto’s
13:00  Masterfoods Keynote Lecture Series – Grand Ballroom - Leanne L. Birch
14:00  Coffee Break
14:30 – 16:30  Symposium 6 – Grand Ballroom Salon A, Antipsychotic Medications and Energy Balance
17:00  Oral Session 8 – Grand Ballroom Salon BC, Gut - Brain
17:00  Enjoy The Zoo
18:00  Reception
19:00  Banquet at the Zoo
Dance the night away
Next SSIB Meeting

July 12-17, 2005
Sheraton Station Square Hotel
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