PROGRAM
SSIB Annual Meeting

Naples Grande Resort & Club
Naples, Florida, USA

July 18-22, 2006

Abstracts appear in
2005-2006

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Dear Colleagues,

It is a great pleasure for me to welcome you to the 14th Annual Meeting of the Society for the Study of Ingestive Behavior (SSIB) on behalf of all the Officers and Board Members of SSIB. I trust you will greatly enjoy the next four days here in the beautiful venue of Naples and find this time an exciting scientific and social experience.

The scientific program this year is outstanding. Tim Moran and the members of his Program Committee have put together an excellent program that is both varied and deep, with sessions and symposia focusing on many timely topics. And again this year we have an excellent roster of speakers for the Masterfoods Keynote Lectures.

Our Executive Coordinator Marianne Van Wagner has done a magnificent job organizing this conference. She handled a myriad of details related to planning the meeting, and, together with Treasurer Allen Levine, put together a sound budget. Indeed, over the last several months she was able to negotiate favorable deals with the hotel management for many aspects of the meeting. This was particularly important this year because - as I am sure you are aware of - this is the first SSIB meeting without a real local host. Therefore, Marianne, thank you very much from all of us for everything! The first-rate conference facilities and the beautiful surroundings of the Naples Grande Resort will provide for effective and enjoyable scientific sessions and for a splendid setting for the well deserved breaks between sessions as well as a for the banquet on Saturday night.

Many of the special features of our Annual Meeting – and there are more of them this year than ever before - would not be possible without the generous financial support of our sponsors. We think it is appropriate to reiterate our thanks frequently both to our generous corporate sponsors as well as to all the members who donated privately or have actively contributed to our fund raising efforts. In this context I also thank Gary Schwartz for his valuable help in securing the successful renewal of SSIB’s NIH grant, which provides the financial basis for an interesting symposium and significantly contributes to the New Investigator Travel Awards.

Finally, I sincerely hope attendees who are not yet members of SSIB will be enticed by these four days to join our Society, which can be easily done by contacting Marianne or any of the SSIB Officers here in Naples, or by going to the SSIB website (www.ssib.org). In any case, we hope to welcome you again to our next meeting in Steamboat Springs (Colorado), July 24-29, 2007.

I am looking forward to a great meeting, to seeing so many of you here in Naples.

Kenny Simansky
SSIB President 2005-2006
LRPC/PROGRAM COMMITTEES

Long Range Planning Committee

Joel Kaplan, Ph.D., Chair, University of Pennsylvania, Pennsylvania, PA, USA (2006)
Deborah Clegg, Ph.D., University of Cincinnati, Cincinnati, OH, USA (2006)
Kevin Grove, Ph.D., Oregon Regional Primate Research Center, Beaverton, OR, USA (2006)
Suzanne Higgs, Ph.D., University of Birmingham, Birmingham, UK (2008)
Dianne Lattemann, Ph.D., VA Medical Center, Seattle, WA, USA (2008)
Thomas Lutz, DVM, Ph.D., University of Zurich, Zurich, Switzerland (2007)
Susan Swithers, Ph.D., Purdue University, Lafayette, IN, USA (2007)
Martin Yeomans, Ph.D., University of Sussex, Brighton, UK (2006)

---------------------------------------------

Program Committee

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Peter Wielinga, Ph.D., University of Zurich, Zurich, Switzerland (2008)
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On behalf of the entire membership of the Society for the Study of Ingestive Behavior (SSIB), The Board and the Organizing Committee of the 2006 Annual Meeting sincerely thank the following organizations for their generous support of the Society:

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We also sincerely thank all the individual SSIB members who made personal contributions to the Society this year.
**HONORS AND AWARDS**

**Distinguished Career Award**

James Gibbs: Report from the Provinces

**Alan N. Epstein Research Award**

Thomas Lutz: Can There Be Life Without Amylin?

**New Investigator Awards**

*Listed alphabetically here and marked in the program with #.*

Dr. Lori Asarian, Swiss Federal Institute of Technology (ETH), Switzerland  
Dr. Nicole M. Avena, Princeton University, USA  
Dr. Csilla Becskei, University of Zurich, Switzerland  
Ms. Kristel Diepvens, University of Maastricht, The Netherlands  
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Ms. Susan Melhorn, University of Cincinnati College of Medicine, USA  
Ms. Joanna R. Miragaya, University of Georgia, USA  
Ms. Anaya Mitra, University of Florida, USA  
Ms. Christa M. Patterson, New Jersey Medical School, USA  
Dr. Sumpun Thammacharoen, University of Zurich, Switzerland  
Ms. Ann-Marie M. Torregrossa, University of Utah, USA  
Dr. Andrea L. Tracy, University of Cincinnati, USA  
Ms. Heather G. Ward, Drexel University College of Medicine, USA  
Mr. Peter Y. Wielinga, University of Zurich, Switzerland  
Dr. Diana L. Williams, University of Washington, USA
Tuesday, July 18, 2006

10:00-12:00  *Long Range Planning Committee Meeting* – Location: Hotel Suite 702

12:15-2:15  *SSIB Board Meeting* – Location: Acacia I & II

3:00-5:30  *Registration* – Please use this time to pick up your name badges, receipts and program. Location: Royal Palm Foyer East

6:00-7:30  *Welcome Reception for all Participants* (hors d’oeuvres and cash bar) – Location: Royal Palm Foyer

7:30-9:30  *Students Only--Get Acquainted Social Event* (food and beverages will be provided) – Location: Hotel Suite 702

*These events are partially sponsored by TestDiet® division of Land O’Lakes Purina Feed, LLC.
**Wednesday, July 19, 2006**

NOTE: Presenting authors are indicated by **BOLD** print throughout the program.

**Greeting** – 8:15-8:30 **KENNY SIMANSKY, President**
Location: Royal Palm IV

**Symposium 1 - 8:30-10:30**
Location: Royal Palm IV
*Neural and Endocrine Adaptations Affecting Body Energy Homeostasis During Pregnancy and Lactation*
Chair: **L.M. RINAMAN**

8:30 **A.J. DOUGLAS:** Adaptations of oxytocin neurons during pregnancy: role in regulating food intake?

9:00 **D.R. GRATTAN, R.A. AUGUSTINE, S.R. LADYMAN:** Hormonal induction of central leptin resistance during pregnancy.

9:30 **K.L. GROVE, X.Q. XIAO, M.S. SMITH:** Central metabolic adaptations during lactation.

10:00 **B. WOODSIDE, L. NAEF AND C. FRATE:** Prolactin, leptin and the hyperphagia of lactation.

**Oral Session 1 - 8:30-10:30**
Location: Royal Palm I-III
*Satiety and Binge Eating*
Chair: **G.J. SCHWARTZ**

8:30 **A-M. TORREGROSSA#; A.V. AZZARA, M.D. DEARING:** The herbivorous rodent Neotoma albigula regulates toxin intake through decreasing meal size.

8:45 **R.L. CORWIN, D.S. JOHNSON, F.H.E. WOJNICKI:** Different histories of optional fat access affect subsequent binge-type eating.

9:00 **A.M. NALEID, M. CHIMUKANGARA, M.K. GRACE, A.S. LEVINE:** CNS μ-opioid stimulation increases intake of high-fat but not high-sucrose diet depending on diet preference in a "binge" model of feeding.

9:15 **S. SOENEN, M.S. WESTERTERP-PLANTENGA:** Poor energy intake compensation of any type of liquid preload.

9:30 **B. BURTON-FREEMAN:** Examination of caseinomacropeptide (CMP) as a bioactive compound in whey inducing satiety.

9:45 **A.J.P.G. SMEETS, M.S. WESTERTERP-PLANTENGA:** Oral exposure and sensory-specific satiety.

10:00 **H.R. KISSILEFF, S. MCNALLY, R. GORDON, H. LOFINK, M. TORRES, M. LOWE:** Responsiveness to preloads in a laboratory study of three types of female dieters: preliminary report.

**10:30-11:00 Break/Exhibitors’ Display** - Location: Royal Palm V
11:00-12:00 Masterfoods Keynote Lecture Series – Introduction – A.C. SPECTOR.
LINDA BARTOSHK: Do you Taste what I Taste? Implications of Sensory Measurement for Health
Location: Royal Palm IV

New Investigator Symposium – 4:00-6:00
Location: Royal Palm IV
Chair: K.J. SIMANSKY

4:00 N.M. AVENA#, P. RADA, B.G. HOEBEL: Underweight compared with normal-weight rats release more dopamine in the nucleus accumbens shell when bingeing daily on sugar.


5:00 C.M. PATTERSON#, B.E. LEVIN, M. FLESHNER: Three weeks of post-weaning exercise increases plasma interleukin-6 and permanently prevents obesity in obesity-prone rats fed high energy diet.

5:15 S. THAMMACHAROEN#, T.A. LUTZ, N. GEARY, L. ASARIAN: Hindbrain estradiol implants inhibit feeding and increase NTS c-Fos immunoreactivity in female rats.

5:30 H.G. WARD#, K.J. SIMANSKY: Temporal association of decreased food intake and cellular coupling of receptors to G-proteins after irreversible inhibition of mu opioid receptors (MORs) in the parabrachial nucleus (PBN).

5:45 D.L. WILLIAMS#, D.G. BASKIN, M.W. SCHWARTZ: Leptin enhances and fasting inhibits the anorexic response to Exendin-4 in the rat.
**Poster Session 1 – 6:00-7:30**
Location: Royal Palm VI-VIII

**PALATABILITY**

1. **B.C. DE JONGHE, A. HAJNAL, M. COVASA:** Decreased detection of gastric volume in young and old OLETF rats.

2. **B.C. DE JONGHE, A. HAJNAL, M. COVASA:** Flavor preference conditioning by intraduodenal nutrients is unaffected in OLETF rats.


4. **A.V. AZZARA, X. LI, G.J. SCHWARTZ:** OLETF rats have increased motivation to obtain sucrose pellets on a progressive-ratio schedule that is not mediated by Y1 receptors in the dorsomedial hypothalamus (DMH).

5. **J.E. HAYES, M.E. DINEHART, V.B. DUFFY:** Optimal liking of fat-sweet mixtures varies with markers of bitter taste and taste anatomy.

6. **M. COVASA, C.Y. HUNG, R.C. RITTER, G.A. BURNS:** Antagonism of hindbrain NMDA receptors containing NR2B and/or NR2A subunits increases the size of a sucrose meal.


8. **N.T. BELLO, A.S. GUARDA, J. HYUN, T.H. MORAN:** Reduced caloric availability with intermittent access to sweetened fat leads to binge-type feeding in rats.

9. **G.J. GOLDEN, T.A. HOUPT:** MK-801 blocks acquisition of conditioned flavor-taste preferences.

10. **J.F. DAVIS, O. REIZES, D.J. CLEGG, S.C. BENOIT:** Syndecan-3 modulates the rewarding properties of sucrose.


12. **G. SCALER A, A. BIGIANI:** Effects of different gustatory nuclei lesions on Conditioned Taste Aversion learning in rats.

14. **C.M. Mathes, N.E. Rowland**: Effect of a CB1 receptor antagonist on food motivation and taste preference in mice and rats.


16. **A. Sclafani, J.I. Glendinning**: Flavor conditioning by oral and post-oral actions of sucrose and saccharose in mice.

17. **K. Touzani, R.J. Bodnar, A. Sclafani**: Critical role of dopamine D1 receptors in nucleus accumbens shell in flavor preference conditioning by intragastric glucose infusion.


20. **E.V. Izbicki, K.P. Myers**: Caffeine consumption history alters the aversive and preference-reinforcing effects of caffeine in rats.

21. **K. Ackroff, A. Sclafani**: Inconsistent pairing of sweet taste and energy does not affect rats’ food intake.

22. **S. Higgs, A.C. Williamson**: Recall of a recent meal decreases afternoon snack food intake: no effect of manipulation of snack food palatability.

23. **K.J. Newhouse, B. Green, D.M. Small**: It smells so good I can almost taste it: Evidence that food and nonfood odors are localized differently within the nasal cavity.

24. **H.M. Murphy, G.R. Naidu, C.H. Wideman**: Thermic and behavioral withdrawal symptoms provide further evidence of the addictive nature of sugar in the rat.

**LEARNING/DISCRIMINATION**

25. **N. DiPatrizio**: A Differential Role For Cannabinoid CB1 Receptors of the Lateral Parabrachial Nucleus In Regulating the Consumption of Palatable But Not a Standard Food


27. **S.E. Kanoski, T.L. Davidson**: The impact of saturated fat on hippocampal-dependent inhibitory learning processes.

29. **B. RAUDENBUSH, J. SMITH, T. CESSNA, K. MCCOMBS, R. YAHN:** Effects of sham intoxication on cognitive functioning and performance.

30. **B. RAUDENBUSH, I. WILSON, P. ZOLADZ:** Effects of sham intoxication: Impact on mood, pain perception and threshold, level of aggression, and physiology.

31. **E. GALARCE:** Effects of cues associated with surprising meal interruption on food consumption.
Thursday, July 20, 2006

Symposium 2 - 8:30-10:30
Location: Royal Palm IV
Basic and Clinical Science of Ingestion and Reward
Chairs: J.A. NASSER and R.W. FOLTIN

8:30  R.W. FOLTIN, COLUMBIA UNIVERSITY AND THE NEW YORK STATE PSYCHIATRIC INSTITUTE, NEW YORK, USA: Are models of polydrug abuse useful for understanding food combinations?

9:00  J.A. NASSER: Are fatty acid/sugar combinations the dietary equivalent of the drug “speedball”?

9:30  N. ABUMRAD: The role of CD36 in the perception and utilization of dietary fatty acids: A molecular basis for dietary fat preference.

10:00  J D. SALAMONE, P.J. MCLAUGHLIN, K SINK, C BROWN: Effects of cannabinoid antagonists on intake of different foods.

Oral Session 2 - 8:30-10:30
Location: Royal Palm I-III
GI Peptides
Chair: E.E. LADENHEIM

8:30  P.K. CHELIKANI, A.C. HAVER, R.D. REIDELBERGER: Low doses of peptide YY(3-36) (PYY) inhibit food intake without producing malaise in rats.

8:45  K.A. SCOTT, T.H. MORAN: Exendin-4 reduces food intake in non-human primates through changes in meal size.

9:00  R.D. REIDELBERGER, A.C. HAVER, P.K. CHELIKANI: Patterns of infusion of anorexigenic substances that reduce daily food intake and adiposity in freely-feeding rats.


9:30  D.J. CLEGG, S.C. BENOIT, L. BROWN, R. BUSH, O. REIZES: Ghrelin antagonist is efficacious in lean but not obese rodents.

9:45  J.A. REED, S.J. BENOIT, T.P. VAHL, D.A. D’ALESSIO, E.K. ORR, M.H. TSCHOEP, R.J. SEELEY: Mice with high levels of central ghrelin expression and increased plasma ghrelin have impaired glucose tolerance.

10:00  M.R. RICKELS, R. MUeller, K.L. TEFF: Hypoglycemia-induced hunger is not associated with increases in plasma ghrelin in humans.

10:15  A. GELIEBTER, M.E. GLUCK, M. TAKAHASHI, F.X. PI-SUNYER, L. FLANCBAUM: Fasting ghrelin concentrations did not change 2 and 5 months following Rouen-Y-Gastric Bypass (RYGB) and demonstrated normal postmeal decline.

10:30-11:00  Break/Exhibitors’ Display - Location: Royal Palm V
11:00-12:00  Masterfoods Keynote Lecture Series – Introduction – W. LANGHANS.
ANDREW J. HILL: The Psychology of Food Cravings
Location: Royal Palm IV

NIH Sponsored Symposium – 4:00-6:00
Location: Royal Palm IV
Images of Ingestive Behavior
Chair: M. PELCHAT

4:00  N.D. VOLKOW, G-J. WANG, J.S. FOWLER: Common brain mechanisms in addiction and obesity.

4:30  D.M. SMALL: Brain representation of food reward in normal weight humans.

5:00  A. DELPARIGI: Searching for neurofunctional markers of regulation of eating behavior in humans.

5:30  J. TREASURE, S. BROOKS, H.C. FREIDRICH, R. UHER, I. CAMPBELL: What do we understand about the brain mechanisms underpinning the eating disorders.
*Poster Session 2 – 6:00-7:30*
Location: Royal Palm VI-VIII

**APPETITE AND SATIETY**

32. **E. ALMIRON-ROIG, R. VIRGILI, S. PINAUD, A. ERKNER, H. GREEN:** Validation of a hand-held electronic appetite rating system.

33. **L.F. HARTHOORN, E. DRAUSFIELD:** Periprandial changes of the autonomic nervous system related to perceived satiety in humans.

**GUT PEPTIDES**

34. **E.H.E.M. VAN DE WALL, S.J. HONG, A.V. AZZARA, G.J. SCHWARTZ:** Peripheral ghrelin reverses the anorectic effect of lipopolysacharide.

35. **M. BEHL, E.K. WALLS, J. MAK, T.L. DAVIDSON:** Intake suppression following intracerebroventricular and intrahippocampal CCK-8.

36. **FAULCONBRIDGE, L.F., ROOD, K.H., GRILL, H.J., KAPLAN, J.M., DANIELS, D.:** Ghrelin induces Fos expression in the nucleus of the solitary tract, but not the arcuate nucleus, after fourth ventricular delivery.

37. **P.J. WELLMAN, C. HOLLAS, S. CLIFFORD, A. ELLIOTT:** Augmentation of cocaine hyperlocomotion by chronic administration of ghrelin in the rat.


39. **P.K. CHELIKANI, A.C. HAVER, R.D. REIDELBERGER:** Relative potencies of anorexigenic substances in suppressing food intake in freely-feeding rats.

40. **R.D. REIDELBERGER, A.C. HAVER:** Action of circulating amylin to decrease food intake in rats.

41. **M.R. HAYES, M. COVASA:** Gastric distension enhances CCK-induced c-Fos expression in the dorsal hindbrain by activating 5-HT3 receptors.

42. **C.H. VAUGHAN, C. HASKELL-LUEVANO, A. ANDREASEN, N.E. ROWLAND:** Short term food intake in MC4RKO mice after CCK and bombesin administration.

43. **J.V. NGUYEN, L. RINAMAN:** Anorexic doses of the amylin analog salmon calcitonin (sCT) support conditioned flavor avoidance in rats.

45. **M. Schroeder, O. Zagoory-Sharon, T.H. Moran, S. Bi, A. Weller**: Pair-feeding studies in young CCK1 spontaneous knockout rats.

**STRESS**


48. **A.G. Nieuwenhuizen, F. Rutters, M. Lejeune, M.S. Westerterp-Plantenga**: Cognitive dietary restraint and disinhibition are associated with higher plasma cortisol concentrations in women.

49. **A. Legendre#, R.B. Harris**: Exaggerated endocrine response to mild stress in rats fed high fat diet.

50. **J.R. Miragaya#, R.B.S. Harris**: Antagonism of 4th ventricle corticotropin releasing factor receptors (CRFR) exaggerates the effects of stress on food intake.

51. **C. Chotiwat, R.B.S. Harris**: Increased Anxiety-like Behavior during the post-stress period in Mice Exposed to Repeated Restraint.

52. **S.B. Yoo, V. Ryu, J.W. Chang, J.W. Jahng**: Ad libitum sucrose or saccharin for 1 h reverses fasting-induced increase in plasma corticosterone.

**STEROIDS**


55. **P.C. Butera, A.J. Fura, S. Nodzo**: Cyclic estradiol treatment modulates the effects of ghrelin on food intake and meal patterns in female rats.

56. **M.A. Honors, P.C. Butera**: Activation of IL-1 receptors is not required for the suppression of food intake during the ovarian cycle.
57. **J.B. Chambers, J.U. Heiman, D.J. Clegg, S.C. Benoit:** Sex and strain differences impact learning and motivation in DR and DIO rats.

58. **Z. Yu, Fhe Wojnicki, Rl Corwin:** Effects of hormone replacement on binge-type eating in ovariectomized female rats.


**Friday, July 21, 2006**

**Symposium 3 - 8:30-10:30**  
Location: Royal Palm IV  
*Forebrain and Hindbrain: Neural Network Interactions for Controlling Feeding*  
Chair: **A.G. WATTS**

8:30  **L.W. SWANSON:** Structural organization of the essential circuit underlying mammalian ingestive behavior.

9:00  **A.G. WATTS, C. NEUNER, D. SALTER, R.H. THOMPSON:** Interactions between the telencephalon and hypothalamus during anorexia.

9:30  **G.D. PETROVICH:** Amygdalo-hypothalamic circuitry and control of food consumption by learned cues.

10:00  **H-R. BERTHOUD, L.M. PATERSON, H. ZHENG:** Forebrain – hindbrain interactions in the control of food intake and energy balance.

**Oral Session 3 - 8:30-10:30**  
Location: Royal Palm I-III  
*Weight Regulation and Obesity*  
Chair: **K.L. TEFF**


8:45  **T.V.E. KRAL, R.I. BERKOWITZ, A.J. STUNKARD, V.A. STALLINGS, M.S. FAITH:** Caloric beverage consumption in children: A behavioral phenotype for obesity?

9:00  **M. CIAMPOLINI:** Infants do request food at the hunger glycemic level, but adults don’t any more.

9:15  **D.A. LEVITSKY:** Constancy of body weight does not mean physiological regulation.

9:30  **K. DIEPVENS#, S. SOENEN, J. STEIJNS, M. ARNOLD, M.S. WESTERTERP-PLANTENGA:** Long-term effects of consumption of yoghurt with a novel fat emulsion (Olibra) in relation to body-weight management.

9:45  **L. ASARIAN#, N. GEARY, W. LANGHANS:** High-fat feeding produces early onset adiposity in serotonin (5-HT) 2C receptor mutant mice.

10:00  **P. JAROSZ, J. KESSLER, P.K. SEKHON, D.V. COSCINA:** Conditioned place preferences (CPPs) to high-calorie "snack foods" in rats genetically prone vs. resistant to diet-induced obesity.

10:15  **G. FROMENTIN, C. GAUDICHON, D. AZZOUT-MARNICHE, D. TOME:** Macronutrient composition, food intake and body composition in the rat.

**10:30-11:00 Break/Exhibitors’ Display** - Location: Royal Palm V
11:00-12:00  Masterfoods Keynote Lecture Series – Introduction – H-R. Berthoud.
Location: Royal Palm IV

Symposium 4 – 4:00-6:00
Location: Royal Palm IV
Interactions among Food, Water and Salt Intake
Chair: K.S. CURTIS and D. DANIELS

4:00  E.M. STRICKER: Control of thirst and salt appetite in rats by pre-systemic stimuli.

4:30  A.V. FERGUSON: Circumventricular organs as integrators of circulating signals controlling fluid and food intake.

5:00  B.J. OLDFIELD, J. KAMPE, J.H. HOLLIS: Central neural circuitry subserving thirst and hunger – divergence and commonalities.

5:30  J.C. SMITH, K.S. CURTIS: Microstructural analyses of food, water, sucrose and salt intake.

Oral Session 4 – 4:00-6:00
Location: Royal Palm I-III
Central Mechanisms of Feeding
Chair: L.A. ECKEL

4:00  H. SHI, A.D. STRADER, J.B. CHAMBERS, J.E. SORRELL, D.J. CLEGG, S.C. WOODS, R.J. SEELEY: The leptin driven melanocortin pathway in the regulation of body fat and glucose homeostasis is sexually dimorphic.

4:15  E.A. DUNCAN#, S.C. WOODS: The role of melanin-concentrating hormone in alcohol drinking in mice.


5:00  G.P SMITH, J.C. SMITH: D1 and D2 dopamine antagonists have differential effects in repetitive brief-access tests with sucrose.


5:30  R.I. GEDDES#, L. HAN, A. BALDWIN, P.S. GRIGSON: Asymmetric lesions of the gustatory thalamocortical loop selectively disrupt morphine-induced contrast, while sparing LiCl-induced conditioned taste aversion (CTA) learning.
**Poster Session 3 – 6:00-7:30**  
Location: Royal Palm VI-VIII

**CENTRAL INGESTIVE MECHANISMS**

63. **E.E. LADENHEIM, R.R. BEHLES, S. BI, T.H. MORAN**: Gastrin-releasing peptide and melanocortin-4 receptor mRNA's are co-localized in the rat hypothalamic paraventricular nucleus.

64. **T. APPL, M. SCHINDLER**: Neurochemical characterisation of activated neurones of the rat brain by scheduled feeding regimen.


66. **L. FRANK, L. STILES, G. BEHR, E.N. POTHOS**: Prewired synaptic plasticity in central dopamine systems of obesity-prone rats and mice.


68. **S.K. BILLES, M.A. COWLEY**: Dopamine and norepinephrine reuptake inhibition both contribute to bupropion-induced hypophagia in obese mice.


70. **C.M. NEUNER, A.G. WATTS**: Effects of GABA in the nucleus accumbens shell on ingestive behavior after dehydration-anorexia.

71. **P. SINNAYAH, L. TONELLI-LEMOS, A.J. EUSTERBROCK, K.L. GROVE, M.A. COWLEY**: The VTA modulates feeding behaviour induced by cannabinoid receptor antagonists in both wildtype and Agouti mice.

72. **M.J. BARNES, D. Braymer, G.A. Bray**: Stimulation of food intake by mu opioid agonists is blocked by NPY antagonist.

73. **R. FAIPOUX, O. RAMPIN, N. DARCEL, S. GOUGIS, D. GIETZEN, D. TOME, G. FROMENTIN**: Ibotenic acid lesions of the anterior piriform cortex do not increase high-protein nor amino acid imbalanced diet intake in rats.
**OBESITY**

74. **G. HANSEN, A.N. MADSEN, B.E. LEVIN, R.V. SØRENSEN, N. VRANG, P.J. LARSEN, M. TANG-CHRISTENSEN:** Spontaneous physical activity, energy expenditure and meal structure during the development and maintenance of diet induced obesity.

75. **J. DILL, J. ALEXANDER-CHACKO, B. HUGHES, N. NEWTON, D.K. SINDELAR:** Improvement in the insulin sensitivity index with weight loss in rodents fed a 40% fat diet.

76. **M.G. TORDOFF, Q. ZHANG, D.R. REED:** Diversity in dietary obesity in inbred mice.

77. **N. HARIRI, B. AZADI, L. THIBAULT:** Effect of dietary fatty acid composition on the development of obesity and its reversal in rats.

78. **D.M. PENN, J. WHITE, E.W. KELSO, R.B.S. HARRIS:** Sympathetic denervation of specific white fat depots modifies size and norepinephrine content of distant intact depots.

79. **E.W. KELSO, R.B.S. HARRIS:** Sympathetic denervation of epididymal (EPI) or inguinal fat (ING) pads changes norepinephrine turnover in other intact fat depots.

80. **J. POWER, E.W. KELSO, T.J. BARTNESS, H.J. GRILL, R.B.S. HARRIS:** The effect of peripheral leptin infusions on energy balance in chronically maintained decerebrate rats.

81. **J.E. DAVENPORT, R.B.S. HARRIS:** Leptin does not regulate the size of white fat transplants.

82. **C. CHESNEAU, L. THIBAULT, D.A. BOOTH:** Sustainable customs of food intake and physical activity that induce loss of weight.

83. **A.C. TETLEY, J.M. BRUNSTROM:** Food-cue reactivity predicts overweight and larger food portion sizes in humans.


85. **W.D. KNIGHT, M.M. MESSINA, A.D. PARSONS, J.M. OVERTON:** Re-feeding induces rapid recovery of cardiovascular and metabolic responses after one year of caloric restriction in male FBNF1 rats.
WATER/SALT INTAKE

86. **K.S. CURTIS, R.J. CONTRERAS**: Estrogen decreases the latency to begin water intake in ovariectomized rats given a hypertonic NaCl infusion.


89. **V. RYU, X. GU, J.G. KIM, J.S. LEE, J.-H. LEE, J. W. JAHNG**: nNOS expression increases during water deprivation and decreases shortly after water reconsumption in the rat PVN.

90. **C.A. SMITH, E.M. STRICKER**: Intestinal denervation eliminates the rapid inhibitory signal associated with distention of the stomach and small intestine when dehydrated rats drink water.

91. **M.L. HOFFMANN, E.M. STRICKER**: Presystemic stimulation of neurohypophyseal vasopressin secretion while rats eat high-NaCl diet.

92. **S.T. OMOUESSI, C. FALCONETTI, S.N. THORNTON**: Low dose DOCA stimulates salt appetite in obese Zucker rats; effect of dose and synergistic action with central angiotensin II.
Saturday, July 22, 2006

Symposium 5 – 8:30-10:30  
Location: Royal Palm IV  
Food Reward: A Critical Factor in the Etiology and Treatment of Obesity and Binge Eating  
Chair: H.A. RAYNOR

8:30 B.G. HOEBEL, N.M. AVENA, M. BOCARSLY, P. RADA: Eating for dopamine: effects of learning, weight loss, bingeing and purging.

9:00 M.M. BOGGIANO, P.C. CHANDLER, C.E. PRITCHETT, M.L. SMITH: Dieting, junk food, and stress alter food reward in rat models of binge-eating.

9:30 M.R. LOWE: The power of food: A new dimension of appetite and a new scale to measure it.

10:00 H.A. RAYNOR: The reinforcing value of food: Implications for obesity treatment.

Oral Session 5 - 8:30-10:30  
Location: Royal Palm I-III  
Substrate Utilization and Energy Balance  
Chair: R.B.S. HARRIS


8:45 P.Y. WIELINGA#, B. ALDER, T.A. LUTZ: The effect of amylin on energy expenditure.

9:00 M.P.G.M. LEJEUNE, N.D. LUSCOMBE-MARSH, M.S. WESTERTERP-PLANTENG: 24h energy expenditure, GLP-1 and satiety during a high protein diet measured in a respiration chamber in lean men.


9:30 E. AYSIN, K. NONOGAKI, M. LOWE: A potential new indicator of weight gain: autonomic nervous system activity (ANSA).

9:45 S. AJA, J.M. MCFADDEN, A. APLASCA, E. PLUMMER, J. HYUN, S.M. MEDGHALCHI, A. VADLAMUDI, J.N. THUPARI, C.A. TOWNSEND, F.P. KUHJDA, T.H. MORAN, G.V. RONNETT: Intracerebroventricular administration of either C89b, a stimulator of carnitinepalmitoyltransferase-1 (CPT-1s), or cerulenin, an inhibitor of fatty acid synthase (FASi), reduces food intake and body weight in mice.

10:00 N. ABUMRAD: The role of CD36 in the perception and utilization of dietary fatty acids: A molecular basis for dietary fat preference.
10:30-11:00  Break/Exhibitors’ Display - Location: Royal Palm V

11:00-12:00  Masterfoods Keynote Lecture Series – Introduction – KJ Simansky.
TIM BARTNESS: Brain-Adipose Crosstalk
Location: Royal Palm IV

Symposium 6 - 1:30-3:30
Location: Royal Palm IV
Stress and Obesity
Chair: R.R. SAKAI
Co-Chair: L.P. REAGAN


2:00  R.R. SAKAI: Chronic social stress affects body weight and composition.


3:00  T.C. ADAM, E.S. EPEL: Stress, eating, and obesity: neuroendocrine mediators and sequellae.

Oral Session 6 - 1:30-3:30
Location: Royal Palm I-III
Preferences/Aversions
Chair: K.P. MYERS

1:30  S. JARVANDI, D.A. BOOTH, L. THIBAUTL: Rats learn anticipatory hunger with a choice of foods as well as on a single diet.


2:15  M.C. CLINTON, M. GARCEA, A.C. SPECTOR: Pre-surgical taste experience attenuates the partial loss of behavioral responsiveness to quinine after gustatory deafferentation of the tongue.

2:30  K.J. SIMANSKY*, D.M. NICKLOUS, C. PAUL, A.G. ROMANO: The serotonergic agonist, GR46611 decreases the acquisition but not the expression of learned jaw movements for sucrose reward in a pavlovian paradigm in rabbits.


3:00  D.R. LOCKWOOD, T.A. HOUPT: Phosphatase blockade in the amygdala enhances both conditioned taste aversion learning and cAMP-mediated cellular activation.

3:15  B.S. KWON, T.A. HOUPT: Expression of c-Fos-LacZ transgene after LiCl administration.
Awards and Award Lectures
Location: Royal Palm I-III

3:40 Award Announcements
K.J. SIMANSKY
Gerard P. Smith Award for the best graduate student presentation
TestDiet® Jackson Lab Scholarship for the best post-doc presentation

3:45 Alan N. Epstein Research Award
Chair: H-R. BERTHOUD
THOMAS LUTZ: Can There Be Life Without Amylin?

4:15 Distinguished Career Award
Chair: K.J. SIMANSKY
JAMES GIBBS: Report from the Provinces

5:00 Business Meeting (OPEN TO ALL SSIB MEMBERS)
Location: Royal Palm I-III

7:00 Banquet – Dinner and Dancing
Location: Royal Palm IV-V
Abstracts for the 2004 SSIB meeting appear in *Appetite* 46 (3): 337-394, 2006. Abstracts not published in *Appetite* per the authors’ request are printed below in alphabetical order.

**STRESS, EATING, AND OBESITY: NEUROENDOCRINE MEDIATORS AND SEQUELAE.**
*T.C. Adam, E.S. Ebel.* Department of Psychiatry, University of California, San Francisco, CA 94122, USA.
Animal studies show that stress alters food intake and induces a redistribution of fat toward central fat stores. These relationships are challenging to study in humans. Our lab will review human lab and field studies examining relations between stress, cortisol and insulin, with food intake and adiposity, and present new data on individual differences in how naturalistic stress influences macronutrient selection and neuroendocrine milieu (insulin and cortisol).

**REDUCED CALORIC AVAILABILITY WITH INTERMITTENT ACCESS TO SWEETENED FAT LEADS TO BINGE-TYPE FEEDING IN RATS.**
*N.T. Belloc, A.S. Guarda, J. Hyun, T.H. Moran.* Johns Hopkins University School of Medicine, Dept. Psychiatry and Behavioral Sciences, Baltimore, MD 21205, U.S.A.
Short-term caloric restriction has been reported to precede the bingeing episodes of bulimic patients. In addition, the preferred binge foods are often sweet and fatty. We attempted to model these aspects of bingeing behavior to determine whether they would lead to bingeing in adult male Sprague Dawley rats. We employed a three-day paradigm of no restriction, restriction, and binge access. On the no restriction days, rats (n=6) had ad lib chow. On the restriction days, rats had 24h access to 33% of their no restriction day’s chow intake. This was followed by a “binge period”, 2h into dark period on the following day in which a 2h access to sweetened fat (90% Crisco and 10% sucrose blend) option and chow was provided. A control group (n=6) had ad lib sweetened fat option and chow, but no caloric restriction. After a 3 wk repetition of this cycle, rats consumed 92.4 ± 9.32 Kcal during “binge period” with 59% derived from the sweetened fat. In addition, the 2h “binge period” calories approximated the 24h total calories of the no restriction days (96.8 ± 6.0 kcal). There was also a trend for the 24h total caloric intake on the “binge” days to be higher (p=0.07) than the 24h total caloric intake of the controls (146.8± 11.45 vs. 108.9 ± 14.84 Kcal). These results suggest that caloric restriction a sweetened high fat food results in binge-like behavior providing a model for assessing the neural and metabolic consequences of such behaviors. Supported by DK070707.

**FOREBRAIN – HINDBRAIN INTERACTIONS IN THE CONTROL OF FOOD INTAKE AND ENERGY BALANCE.**
*H-R. Berthoud, L.M. Patterson, H. Zheng.* Neurobiology of Nutrition Laboratory, Pennington Biomedical Research Center, Louisiana State University System, 6400 Perkins Road, Baton Rouge, Louisiana 70808, USA.
berthohr@pbrc.edu.
Ingestive behavior is controlled by a complex interplay between signals conveying availability of (1) potentially ingestible food in the environment, (2) digestible food in the alimentary canal, (3) circulating fuels, and (4) stored fuels. Each of these four classes of signals interact with specific sensors and neural circuits whose integrated output determines when food intake is initiated and when it is stopped. Because the final common path responsible for oromotor control is contained within complex neural pattern generators within the brainstem and is intimately linked to sensory information from the alimentary canal, at least part of the integration between the four classes of signals is thought to take place at the level of the caudal brainstem. More specifically, hypothalamic peptidergic neurons receiving metabolic information from the arcuate nucleus and additional information from various cortico-limbic structures, in turn, project to the dorsal vagal complex to modulate the potency of direct controls of meal ingestion. Recent data from our combined anatomical, electrophysiological, cell signaling, and behavioral assessment of examples of this integrative process will be presented. Supported by NIH grants DK47358, DK 57252 and DK071082.
A DIFFERENTIAL ROLE FOR CANNABINOID CB1 RECEPTORS OF THE LATERAL PARABRACHIAL NUCLEUS IN REGULATING THE CONSUMPTION OF PALATABLE BUT NOT A STANDARD FOOD.
N.V. Di Patrizio, K.J. Simansky, Drexel University College of Medicine, Department of Pharmacology and Physiology, Philadelphia, Pennsylvania.
Cannabinoid CB1 receptors (CB1Rs) play a role in modulating feeding and are the targets of new antagonist drugs for treating obesity. Our laboratory focuses on studying the lateral parabrachial nucleus (LPBN) of the pons, a brainstem region associated with integrating neurotransmission from multiple sensory systems, including information regarding ingestion. Investigations into identifying roles for CB1R activity of specific brain regions in the context of ingestion are limited, with no research on actions in the LPBN. Using immunohistochemistry, we demonstrated the presence of CB1Rs in the LPBN. Through guanylyl 5’-[gamma-[35S]thio]-triphosphate (GTP-α-S) autoradiography in vitro, we evaluated CB1R-mediated G-protein coupling activity in the LPBN. The endogenous cannabinoid (endocannabinoid) agonist, 2-arachidonoylglycerol [(2-AG) 50μM] stimulated incorporation of GTP-α-S. The CB1R antagonist/inverse agonist AM251 blocked this response. Given the presence of active parabrachial CB1Rs, we compared the effects of stimulating these receptors in the LPBN on ingestion of a palatable diet containing high-fat and sucrose (Research Diets #D12331: 5.558 kcal/g; 58% kcal fat content) with actions on a standard laboratory chow. Using separate groups of male Sprague-Dawley rats implanted with bilateral cannulae in the LPBN, we infused 2-AG (1 nmol/0.5 ul/side) and measured food intake for four hours. 2-AG significantly increased consumption compared to control (vehicle) 30 min postinfusion (n=7: Veh, 6.1, ±0.5g: 2-AG, 10.1, ±0.8g; p<.001). Alternately, 2-AG failed to modify intake of standard chow at 30 min (n=7: Veh, 0.08, ±0.01: 2-AG, 0.07, ±0.02g). Our data suggest a role for LPBN CB1Rs in regulating consumption of palatable, but not standard laboratory food. USPHS DK067648 to KJSimansky.

EFFECTS OF AN INTRAVENOUS INFUSION OF NaCL, Glucose, OR UREA ON DRINKING LATENCY AND FOS EXPRESSION IN THE CIRCUMVENTRICULAR ORGANS AND HYPOTHALAMUS OF THE RAT.
In 1978-80, investigators using sheep, rats, and dogs demonstrated that hyperosmotic infusions of intravenous (iv) NaCl were more potent for inducing drinking and vasopressin (AVP) secretion than equally osmotic solutions of glucose or urea. The fact that all three solutes increased cerebrospinal fluid (CSF) osmolality and sodium concentration led the investigators to conclude that critical sodium- or osmoreceptors for stimulating drinking and AVP secretion were outside the blood-brain barrier (BBB) in the circumventricular organs (CVOs). We tested an obvious prediction of this hypothesis: that all three solutes should increase Fos-like immunoreactivity (Fos-IR) inside the BBB, but that only NaCl should increase Fos-IR in the CVOs. We gave iv infusions of 3.0 Osm/L NaCl, glucose, or urea to rats for 10 or 20 min at 0.14 ml/min and perfused the rats for assay of Fos-IR at 90 min. Controls received isotonic NaCl at the same volume. Drinking latency was measured, but water was then removed. Drinking consistently occurred with short latency during hyperosmotic NaCl infusions only. Fos-IR in the forebrain CVOs, the subfornical organ and organum vasculosum laminae terminals, was consistently elevated only by hyperosmotic NaCl. However, all three hyperosmotic solutes potently stimulated Fos-IR in the supraoptic and paraventricular nuclei of the hypothalamus inside the BBB. Hyperosmotic NaCl greatly elevated Fos-IR in the area postrema, but even glucose and urea caused moderate elevations that were probably related to volume expansion rather than osmolality. The data provide strong support for the conclusion that the osmoreceptors controlling drinking are located in the CVOs.

EFFECTS OF CUES ASSOCIATED WITH SURPRISING MEAL INTERRUPTION ON FOOD CONSUMPTION.
E. Galarce, Johns Hopkins University, Baltimore, Maryland.
Experience has a dramatic effect on feeding related behaviors. Learned cues may prepare an organism to forage, consume and digest food more efficiently. Even more, environmental signals provide information about food availability and, thus, enable animals to make predictions about future food resources, and subsequently, to act upon that knowledge. In this way, in presence of a cue that signals the presence of food, an animal can eat beyond its present needs to cope with predicted future famine. Interestingly, stimuli paired with meal interruption have a similar effect. That is, signals that have been paired with surprising meal terminations can increase food consumption in a significant manner. Here, using a novel Pavlovian conditioning procedure, food-deprived rats learn to associate a conditioned stimulus with an abrupt termination of a food trial. When tested in extinction, these signals show to have an inhibitory effect on appetitive behaviors. On the contrary, when experimental food is made available, sated rats consume more food in the presence of these signals, than when exposed to cues that were paired with food, or in the absence of any discrete food-related stimuli.
AMYGDALO-HYPOTHALAMIC CIRCUITRY AND CONTROL OF FOOD CONSUMPTION BY LEARNED CUES.

G.D. Petrovich. Johns Hopkins University, Baltimore, MD 21218, USA.

Eating is controlled not only by metabolic signals but also by a number of cues that are not related to energy balance. For example, experimental animals that are trained to associate a signal with food consumption when hunger prevails will subsequently consume a greater amount of food when that signal is presented under conditions of satiety. This overview focuses on the brain system that allows such learned cues to stimulate eating in sated rats. Using combined behavioral and neural system analysis approach we have been defining components of the system that mediates conditioned stimulus (CS) potentiation of eating. We showed that the part of the amygdala that encompasses the basolateral, basomedial, and lateral nuclei, as well as a system formed by this region of the amygdala and lateral hypothalamic area (LHA) are critical for CS-enhanced eating in sated rats. Then in a study that combined immediate early gene and tract tracing methods we found that the CS that stimulates eating in sated rats strongly activates a functional network formed by direct pathways from the amygdala and orbitomedial prefrontal cortex (omPFC) to the LHA. Recently, we demonstrated that intact omPFC is needed for CS-enhancement of eating. Thus far, the functional network critical for conditioned enhancement of eating includes the amygdala, LHA and omPFC. Knowledge about neural systems through which food-associated cues control food consumption is necessary first step toward development of an animal model in which the external control of feeding behavior and its associated disorders can be better studied. Supported by: NIMH (MH60179).
PARTICIPANTS DIRECTORY

Dr. Nada Abumrad
Medicine
Washington University
Campus Box 8031
St. Louis, MO USA
NonMember
nabumrad@wustl.edu

Dr. Karen Ackroff
Dept. of Psychology
Brooklyn College
Brooklyn, NY 11210 USA
Regular Member
kackroff@gc.cuny.edu

Dr. Tanja C.M. Adam
Department of Psychiatry
UCSF
3333 California Street
San Francisco, CA 94122 USA
Student Member
T.Adam@HB.unimaas.nl

Dr. Susan Aja
Psychiatry and Behavioral Sciences
Johns Hopkins Univ Sch of Medicine
720 Rutland Ave., 618 Ross
Baltimore, MD 21205 USA
Regular Member
saja1@jhmi.edu

Ms. Jesline T. Alexander-Chacko
Endocrinology
Eli Lilly and Company
Lilly Corporate Center
Indianapolis, IN 46285 USA
Student NonMember
Alexander-Chacko_Jesline_T@lilly.com

Dr. Eva Almiron-Roig
Food Consumer Interaction
Nestlé Research Center
Vers-Chez-les-Blanc
Lausanne CH-1000
SWITZERLAND
NonMember
Eva.AlmironRoig@rdls.nestle.com

Mr. Thomas Appl
Metabolic Diseases
Boehringer Ingelheim Pharma GmbH & Co.KG
Birkendorfer Strasse 65
Biberach an der Riss 88397
GERMANY
NonMember
thomas.appl@bc.boehringer-ingelheim.com

Ms. Myrtha M.L. Arnold
Institute of Animal Sciences
Swiss Federal Institute of Technology
Schorenstrasse 16
Schwerzenbach 8603,
SWITZERLAND
Affiliate Member
Myrtha-arnold@ethz.ch

Dr. Lori Asarian
Institute of Animal Sciences
Swiss Federal Institute of Technology (ETH)
Schorenstrasse 16
8603 Schwerzenbach,
SWITZERLAND
Student Member
Loredana-asarian@ethz.ch

Ms. Nicole M. Avena
Dept. of Psychology
Princeton University
Washington Road
Princeton, NJ 08544 USA
Student Member
navena@princeton.edu

Ms. Elf Aysin
Research & Development
ANSAR Inc
240 South 8th Street
Philadelphia, PA 19107 USA
NonMember
e_aysin@yahoo.com

Dr. Anthony V. Azzara
Division of Endocrinology
Department of Medicine
Albert Einstein College of Medicine
1300 Morris Park Avenue, Golding 501
Bronx, NY 10461 USA
Regular Member
aazzara@acem.yu.edu

Dr. Tracy L Bale
Animal Biology
University of Pennsylvania
201E Vet. 3800 Spruce Street
Philadelphia, PA 19104-6046 USA
Regular Member
tbale@vet.upenn.edu

Dr. William A Banks
Internal Medicine/Geriatrics
Saint Louis University/Veterans Affairs Medical Center
915 N. Grand
Saint Louis, MO 63106 USA
NonMember
bankswa@slu.edu

Dr. Maria J. Barnes
Dietary Obesity
Pennington Biomedical Research Center
6400 Perkins Road
Baton Rouge, LA 70808 USA
Post Doc Member
barnesmj@pbrc.edu

Mr. Jason George Barrera
Psychiatry (Neuroscience Graduate Program and Phys
Univ of Cincinnati
Genome Research Inst, Building E, 3rd Floor,
Cincinnati, OH 45237 USA
Student Member
barrerjg@email.uc.edu
Dr. Timothy Bartness  
Depts. of Biology & Psych.  
Georgia State Univ.  
24 Peachtree Center Ave NE  
Atlanta, GA 30303 USA  
Regular Member  
bartness@gsu.edu

Dr. Sheng Bi  
Dept. of Psychiatry and Behavioral Sciences  
Johns Hopkins University School of Medicine  
720 Rutland Ave., Ross 618  
Baltimore, MD 21205 USA  
Regular Member  
sbi@jmi.edu

Dr. Britt M. Burton-Freeman  
Nutrition  
University of California, Davis  
One Shields Ave  
Davis, CA 95616-  
USA  
Regular Member  
bbfreeman@ucdavis.edu

Dr. Linda Bartoshuk  
Dept. of Surgery  
Yale University School of Medicine  
333 Cedar St., P.O. Box 208041  
New Haven, CT 06520-8041 USA  
Regular Member  
Linda.Bartoshuk@yale.edu

Ms. Sonja K. Billes  
Oregon National Primate Research Center  
Oregon Health & Science University  
505 NW 185th Ave  
Beaverton, OR 97006 USA  
Student NonMember  
billess@ohsu.edu

Dr. Mary M. Boggiano  
Dept of Psychology, 415 Campbell Hall  
University of Alabama at Birmingham  
1300 University Blvd.  
Birmingham, AL 35294-1170 USA  
Regular Member  
boggiano@uab.edu

Dr. Peter C. Butera  
Dept of Psychology  
Niagara University  
DePaul Hall  
Niagara, NY 14109 USA  
Regular Member  
pbutera@niagara.edu

Ms. Csilla Becskei  
Institute for veterinary physiology  
University of Zurich  
Winterthurerstrasse 260 Zurich 8057, SWITZERLAND  
Student Member  
Csillab@vetphys.unizh.ch

Ms. Mamta Vijay Behl  
Psychological sciences  
Purdue University  
2252 US Highway 52 West, #F-1  
West Lafayette, IN 47906 USA  
Student Member  
mbehl@purdue.edu

Mr. Nicholas T. Bello  
Dept. of Behavioral Science  
Penn State University  
500 University Avenue H181  
Hershey, PA 17033 USA  
Student Member  
ntb103@psu.edu

Dr. Stephen C. Benoit  
Department of Psychiatry  
University of Cincinnati  
2170 East Galbraith Rd.  
Cincinnati, OH 45237 USA  
Regular Member  
stephen.benoit@uc.edu

Dr. Hans-Rudolf Berthoud  
Pennington Biomedical Research Center  
Louisiana State University  
6400 Perkins Rd.  
Baton Rouge, LA 70808 USA  
Regular Member  
Berthohr@pbrc.edu

Dr. K. T. Borer  
Division of Kinesiology  
University of Michigan  
401 Washtenaw Ave.  
Ann Arbor, MI 48109-2214 USA  
Regular Member  
katarina@umich.edu

Dr. Mary M. Boggiano  
Dept of Psychology, 415 Campbell Hall  
University of Alabama at Birmingham  
1300 University Blvd.  
Birmingham, AL 35294-1170 USA  
Regular Member  
boggiano@uab.edu

Dr. J. Brad Chambers  
Psychiatry  
University of Cincinnati  
2170 East Galbraith Rd.  
Cincinnati, OH 45237-0506 USA  
Post Doc Member  
james.chambers@uc.edu

Dr. Thomas W. Castonguay  
Dept of Nutrition & Food Science  
Univ. of Maryland  
Marie Mount Hall  
College Park, MD 20742 USA  
Regular Member  
twc@umd.edu

Dr. Prasanth V.R. Cherikani  
Research Service 151  
Veterans Affairs Medical Center  
4101 Woolworth Avenue  
Omaha, NE 68105 USA  
Post Doc Member  
Prasanth.Cherikani@med.va.gov

Dr. Jeffrey Michael Brunstrom  
Dept. of Exp. Psychology  
University of Bristol  
8 Woodland Road  
Bristol, BS8 1TN, UK  
Regular Member  
jeff.brunstrom@bristol.ac.uk
Ms. Christina Chotiwat  
Foods and Nutrition  
University of Georgia  
Lawrenceville, GA 30045 USA  
Student Non Member  
choti@uga.edu

Prof. Mario Ciampolini  
Pediatrics, Gastroenterologia  
University  
Via Vigna Nuova 8  
Firenze, Tuscany 50123  
ITALY  
Regular Member  
ciampolini@unifi.it

Dr. Deborah J. Clegg  
Psychiatry Department  
University of Cincinnati  
Cincinnati, OH 45267-0559 USA  
Regular Member  
debbie.clegg@uc.edu

Ms Mary C Clinton  
Psychology  
University of Florida  
PO BOX 568 20251 NW 71st  
Mc Intosh, FL 32664 USA  
Student Member  
mclinton@uff.edu

Dr. George Collier  
Dept. of Psychology  
Rutgers University  
152 Frelinghuysen Rd.  
Piscataway, NJ 08854-8020 USA  
Regular Member  
gcollier@rci.rutgers.edu

Dr. Aila Collins  
Dept. of Clinical Neuroscience, Psychology Section  
Karolinska Institute  
Stockholm, 17176 SWEDEN  
Regular Member  
ailla.collins@cns.ki.se

Dr. Marc-Andre Comnier  
Division of Endocrinology, Metabolism and Diabetes  
Univ of Colorado Health Sciences Center  
PO Box 6511, MS 8106  
Aurora, CO 80045 USA  
Regular Member  
mcomnier@dhha.org

Dr. Rebecca L. Corwin  
Nutrition Dept.  
Penn State University  
126 Henderson South  
University Park, PA 16802 USA  
Regular Member  
rxc13@psu.edu

Dr. Donald V. Coscina  
Dept. of Psychology  
Wayne State University  
5057 Woodward Avenue  
Detroit, MI 48202 USA  
Regular Member  
d_coscina@wayne.edu

Dr. Mihai Covasa  
Nutritional Sciences  
The Pennsylvania State University  
126 Henderson South  
University Park, PA 16802 USA  
Regular Member  
mzc13@psu.edu

Dr. Michael A. Cowley  
Div. Of Neurosciences  
Oregon National Primate Research Center  
505 NW 185th Avenue  
Beaverton, OR 97006-3499 USA  
Regular Member  
cowleym@ohsu.edu

Dr. William Cupples  
Dept. of Biology  
University of Victoria  
PO Box 3020 STN CSC  
Victoria, BC V8W 3N5, CANADA  
NonMember  
wcupples@uvic.ca

Dr. Kathleen S. Curtis  
Department of Psychology  
Florida State University  
Tallahassee, FL 32306-1270 USA  
Regular Member  
curtis@psy.fsu.edu

Dr. Derek Daniels  
Psychology  
University at Buffalo, SUNY  
B74 Park Hall  
Buffalo, NY 14260 USA  
Post Doc Member  
danielsd@buffalo.edu

Ms. Jessica E. Davenport  
Foods and Nutrition  
University of Georgia  
Dawson Hall  
Athens, GA 30602 USA  
NonMember  
jess226@uga.edu

Dr. Terry L. Davidson  
Dept. of Psychological Sciences  
Purdue University  
Lafayette, IN 47907 USA  
Regular Member  
davidson@psych.purdue.edu

Dr. Jon Franklin Davis  
Psychiatry  
University of Cincinnati  
2120 East Galbraith Road  
Cincinnati, OH 45237 USA  
Regular Member  
davisjo@email.uc.edu

Mr. Bart C De Jonghe  
Nutritional Sciences  
The Pennsylvania State University  
S-126 Henderson South Bldg.  
University Park, PA 16802 USA  
Student NonMember  
jbd131@psu.edu

Dr. Laurival A. De Luca Jr.  
UNESP - Universidade Estadual Paulista  
Dept. Physiology & Pathology  
Rua Humaitá, 1680  
Araraquara, Sao Paulo 14801-903  
BRAZIL  
Regular Member  
lucarj@fioar.unesp.br

Dr. Angelo DelParigi  
Cardiovascular and Metabolic Diseases  
Pfizer Global Research and Development  
MS 8260-2502 - Eastern Point Road  
Groton, CT 06340 USA  
NonMember  
angelo.delparigi@pfizer.com
Mr. Rodolphe Fajoux
UMR 914 PNCA
INAPG/INRA
16 rue Claude Bernard
PARIS, 75231 FRANCE
Student NonMember
fajoux@inapg.fr

Ms. Lucy F. Faulconbridge
Dept of Psychology
University of Pennsylvania
3720 Walnut St.
Philadelphia, PA 19104 USA
Student Member
lucyhf@sas.upenn.edu

Dr. Alastair Victor Ferguson
Physiology
Queen's University
Botterell Hall, Stuart St.
Kingston, Ontario K7L 3N6,
CANADA
NonMember
avf@post.queensu.ca

Dr. Douglas A. Fitts
Dept. of Psychology
University of Washington
Box 351525
Seattle, WA 98195 USA
Regular Member
dfitts@u.washington.edu

Dr. Richard W. Folin
N.Y. State Psychiatric Institute
Division of Substance Abuse
1051 Riverside Dr., Unit 120
New York, NY 10032 USA
Regular Member
rw2@columbia.edu

Ms. Elizabeth A Duncan
Psychiatry
University of Cincinnati
2170 East Galbraith Rd
Cincinnati, OH 45237 USA
Student Member
duncanem@ucmail.uc.edu

MA Ezequiel M Galare
Psychological and Brain Sciences
Johns Hopkins University
3400 North Charles St, Ames Hall,
Office 126
Baltimore, MD 21218 USA
Student Member
galarce@jhu.edu

Mr. Su Gao
Departments of Psychiatry/Behavioral
Sciences and Biological Chemistry
Johns Hopkins University School of
Medicine
720 Rutland Avenue
Baltimore, MD 21205 USA
Student Member
gao@jhmi.edu

Mr. Luis Augusto Garcia Giralt
Student NonMember
lg@panlab-si.com

Dr. Nori Geary
Institute of Animal Sciences
Swiss Federal Institute of Tech (ETH)
Schorenstrasse 16
8603 Schwerzenbach, SWITZERLAND
Regular Member
nori-geary@ethz.ch

Mr. Rastafa I. Geddes
Behavioral Science (H181)
Penn State Univ, College of Medicine
500 University Avenue
Hershey, PA 17033 USA
Student Member
rig103@psu.edu

Dr. Allan Geliebter
Obesity Research Ctr.
St. Luke’s-Roosevelt Hospital,
Columbia University
1111 Amsterdam Ave
New York, NY 10025 USA
Regular Member
ag58@COLUMBIA.EDU

Ms. Kristel Diepvens
Human Biology
Maastricht University
P.O. Box 616
Maastricht, 6200 MD,
THE NETHERLANDS
Student Member
K.diepvens@hb.unimaas.nl

Ms. Joelle Dill
Endocrine Research
Eli Lilly and Company
Lilly Corporate Center
Indianapolis, IN 46285 USA
NonMember
joelledill@lilly.com

Mr. Nicholas Vincent DiPatrizio
Pharmacology/Physiology
Drexel University College of Medicine
258 S. 15th Street, MS#488
Philadelphia, PA 19102 USA
Student Member
nv23@drexel.edu

Dr. Alicia M. Doerflinger
Department of Psychology
Cedar Crest College
100 College Drive
Allentown, PA 18104 USA
Student Member
adoerflin@cedarcrest.edu

Dr. Alison J. Douglas
Centre for Integrative Physiology
The University of Edinburgh
Hugh Robson Building, George Square
Edinburgh, Scotland EH8 9XD UK
NonMember
alison.j.douglas@ed.ac.uk

Dr. Lisa A. Eckel
Department of Psychology
Florida State University
Tallahassee, FL 32306-1270 USA
Regular Member
eckel@psy.fsu.edu
Dr. Thomas A. Houpt  
Dept Biological Science, BRF 209, Mail 4340  
Florida State University  
Tallahassee, FL 32306-4340 USA  
Regular Member  
houpt@neuro.fsu.edu  

Mr. Benjamin L. Hughes  
Endocrine  
Eli Lilly and Company  
Corporate Center Drop Code 0545  
Indianapolis, IN 46285 USA  
NonMember  
hughes_benjamin_l@lilly.com  

Ms. Christina Marcia Humphries  
Psychology  
University of Maryland, Baltimore County  
1000 Hilltop Circle  
Baltimore, MD 21250 USA  
Student Member  
humph1@umbc.edu  

Prof. Jeong Won Jahng  
Dental Research Institute  
Seoul National University College of Dentistry  
Yeon Geon Dong, Jongno Ku  
Seoul, 110-744 KOREA  
Regular Member  
jwjahng@snu.ac.kr  

Dr. Sohgha Jarvandi  
School of Dietetics and Human Nutrition  
McGill University  
School of Dietetics and Human Nutrition, 21,111 La Ste. Anne de Bellevue, QC H9X 3V9 CANADA  
Student Member  
soghra.jarvandi@mail.mcgill.ca  

Mr. Scott E Kanoski  
Department of Psychological Sciences  
Purdue University  
2832 Wilshire Ave.  
West Lafayette, IN 47906 USA  
Student Member  
skanoski@purdue.edu  

Dr. Joel M. Kaplan  
Dept of Psychology  
Univ. of Pennsylvania  
3720 Walnut Street  
Philadelphia, PA 19104 USA  
Regular Member  
jmk@psych.upenn.edu  

Dr. Emily W. Kelso  
Foods and Nutrition  
University of Georgia  
713 Boyd Grad Studies Building  
Athens, GA 30605 USA  
NonMember  
emilykelso@yahoo.com  

Dr. Kimberly P Kinzig  
Department of Psychological Sciences  
Purdue University  
703 Third Street, RM 3168  
West Lafayette, IN 47907 USA  
Post Doc Member  
kkinzig@psych.purdue.edu  

Dr. Harry R. Kissileff  
Obesity Research Center  
St. Luke’s Hospital  
1111 Amsterdam Ave.  
New York, NY 10025 USA  
Regular Member  
hrk2@columbia.edu  

Dr. Diane A Klein  
Psychiatry  
New York State Psychiatric Institute  
1051 Riverside Drive  
New York, NY 10032 USA  
Student Member  
dk2127@columbia.edu  

Mr. William David Knight  
Nutritional Neuroscience  
Florida State University  
527 Whitehall Street  
Tallahassee, FL 32304 USA  
Student Member  
knight@neuro.fsu.edu  

Dr. Tanja V.E. Kral  
Psychiatry  
University of Pennsylvania School of Medicine  
3535 Market Street, 3rd floor  
Philadelphia, PA 19104 USA  
Post Doc Member  
tkral@mail.med.upenn.edu  

Mr. Bumsup Kwon  
Biological Sciences  
Florida State University  
Tallahassee, FL 32306 USA  
Student Member  
kwonsbs27@hotmail.com  

Dr. Ellen Ladenheim  
Dept. of Psychiatry and Behav. Sciences  
Johns Hopkins University, School of Medicine  
Ross Bldg. Rm. 618  
Baltimore, MD 21205 USA  
Regular Member  
laden@jhmi.edu  

Dr. Wolfgang Langhans  
Institute of Animal Sciences  
ETH Zurich  
Schorenstrasse 16  
Schwerzenbach, ZH 8603 SWITZERLAND  
Regular Member  
wolfgang-langhans@ethz.ch  

Ms. Ariadne Legendre  
Foods and Nutrition  
University of Georgia  
898 Winding Trail  
Lawrenceville, GA 30045 USA  
Student Member  
alegend@fcs.uga.edu
Dr. Sarah F. Leibowitz
1230 York Ave.
Rockefeller University
New York, NY 10021 USA
Regular Member
leibow@rockvax.rockefeller.edu

Dr. Barry E. Levin
Neurology Service 127C
DVA Medical Center
East Orange, NJ 07018 USA
Regular Member
levin@umdnj.edu

Dr. Allen S. Levine
Director, Minnesota Obesity Center,
Dept. of Food Science & Nutrition
University of Minnesota
1334 Eckles Avenue
St. Paul, MN 55108 USA
Regular Member
aslevine@umn.edu

Dr. David A. Levitsky
Nutrition and Psychology
Cornell University
112 Savage Hall
Ithaca, NY 14853 USA
Regular Member
DAL4@cornell.edu

Dr. Chun-Min Lo
Pathology
University of Cincinnati / GRI
2120 E. Galbraith Road
Cincinnati, OH 45237 USA
NonMember
loc@uc.edu

Dr. Michael R. Lowe
Mail Stop 626, Dept. of Psychology
Drexel University
245 North 15th Street
Philadelphia, PA 19102-1192 USA
Regular Member
lowe@drexel.edu

Dr. Robert F Lundy Jr.
Anatomical Sciences & Neurobiology
University of Louisville School of Medicine
500 South Preston Street
Louisville, KY 40292 USA
Regular Member
robert.lundy@louisville.edu

Dr Natalie D. Luscombe-Marsh
Human Biology
University Maastricht
PO Box 616
Maastricht, Limburg 6200 MD,
THE NETHERLANDS
Post Doc Member
n.luscombe@hb.unimaas.nl

Dr. Thomas A. Lutz
Institute of Veterinary Physiology
University of Zuerich
Winterthurerstrasse 260
Zurich, ZH 8057
SWITZERLAND
Regular Member
tomlutz@vetphys.unizh.ch

Dr. Christine Mack
In Vivo Modeling
Amylin Pharmaceuticals, Inc.
9360 Towne Centre Drive
San Diego, CA 92121
USA
NonMember
christine.mack@amylin.com

Ms Elizabeth Madore
Exercise and Nutrition
University at Buffalo
15 Farber Hall
Buffalo, NY 14214-
USA
Student NonMember
eymadore@buffalo.edu

Mr. Andreas Ntgaard Madsen
In vivo pharmacology
Rheoscience A/S
Glerupvej 2
Rødovre 2610,
DENMARK
Student NonMember
ann@rheoscience.com

Ms. Meghan Manaiois
Western Washington University
Bellingham, WA 98225USA
Student NonMember
mkmanaiois@hotmail.com

Ms. Clare M Mathes
Psychology
University of Florida
PO Box 112250
Gainesville, FL 32611-2250 USA
Student Member
cmathes@ufl.edu

Ms. Kristin McCombs
Psychology
Wheeling Jesuit University
316 Washington Avenue
Wheeling, WV 26003
USA
Student Member
kmc2201@hotmail.com

Ms. Susan Jennifer Melhorn
Department of Psychiatry, Genome
Research Institute
University of Cincinnati College of Medicine
2170 E. Galbraith Road, Bldg B-26,
Room 341
Cincinnati, OH 45237
USA
Student Member
melhors@email.uc.edu

Ms. Michelina M. Messina
Program in Neuroscience
Florida State University
241 Biomedical Research Facility
Tallahassee, FL 32306
USA
Student Member
messina@neuro.fsu.edu

Ms Joanna Rodrigues Miragaya
Foods and Nutrition
University of Georgia
Boyd Graduate Studies, 712
Athens, GA 30602
USA
Student Member
jorm09@uga.edu

Ms. Anaya Mitra
Psychology
University of Florida
1700 SW 16th Court Apt. M-27
Gainesville, FL 32608 USA
Student Member
amitra@ufl.edu
Dr. Gorica D Petrovich
Dept of Psychological & Brain Sciences
Johns Hopkins University
3400 N. Charles Street
Baltimore, MD 21218 USA
NonMember
petrovich@jhu.edu

Dr. Emmanuel N. Pothos
Dept. of Pharmacology and Experimental Therapeutics
Tufts University, School of Medicine
Medical & Veterinary Building, Room 201, 136 Harrison Avenue
Boston, MA 02111 USA
Regular Member
emmanuel.pothos@tufts.edu

Ms. Joyce D. Power
Foods & Nutrition
University of Georgia
267 Dawson Hall
Athens, GA 30602 USA
NonMember
jpower@uga.edu

Dr. Bryan Raudenbush
Psychology
Wheeling Jesuit University
316 Washington Avenue
Wheeling, WV 26003 USA
Regular Member
raudenbc@wju.edu

Dr. Hollie A Raynor
The Weight Control and Diabetes Research Center
The Miriam Hospital/Brown University
196 Richmond Street
Providence, RI 2903 USA
Regular Member
hraynor@lifespan.org

Dr. Lawrence Patrick Reagan
Pharmacology, Physiology & Neuroscience
USC School of Medicine
6439 Garner's Ferry Road, VA Bldg 1, Rm D40
Columbia, SC 29208 USA
NonMember
lpreagan@med.sc.edu

Dr. Jacqueline A. Reed
Dept. of Psychiatry
University of Cincinnati
Box 670559
Cincinnati, OH 45267-0559 USA
NonMember
jacqueline.reed@uc.edu

Dr. Roger D. Reidelberger
Research Service (151)
VA Medical Center
4101 Woolworth Ave
Omaha, NE 68105 USA
Regular Member
roger.reidelberger@med.va.gov

Mr. Jim Reynolds
In Vivo Pharmacology
Amylin Pharmaceuticals, Inc.
9360 Towne Centre Drive
San Diego, CA 92121 USA
Student NonMember
jreynolds@amylin.com

Dr. Linda M Rinaman
Dept. of Neuroscience
University of Pittsburgh
446 Crawford Hall
Pittsburgh, PA 15260 USA
Regular Member
rinaman@pitt.edu

Ms. Heidi Rivera
Neuroscience Program
Florida State University
Tallahassee, FL 32306-1270 USA
Student Member
rivera@psy.fsu.edu

Ms. Jennifer Roan
In Vivo Modeling
Amylin Pharmaceuticals, Inc.
9360 Towne Centre Drive
San Diego, CA 92121 USA
NonMember
jennifer.roan@amylin.com

Dr. Neil Rowland
Dept. of Psychology
University of Florida
P.O. Box 112250
Gainesville, FL 32611-2250 USA
Regular Member
nrowland@ufl.edu

Dr. Marieke Ruiter
Veterinary & Comparative Anat, Pharmacol & Physiol
Washington State University
205 Wegner Hall
Pullman, WA 99164-6520 USA
PostDoc Member
mruiiter@vetmed.wsu.edu

Dr. Vitaly Ryu
Oral and Maxillofacial Surgery
Seoul National University
Yeongeon-Dong, Jong-Gu
Seoul, 120-752, 110-774 REP. KOREA
Regular Member
lyuvit@yahoo.com

Dr. Randall R. Sakai
Department of Psychiatry-North
University of Cincinnati
2170 E. Galbraith Rd., Bldg 43/UC-E, Rm 212
Cincinnati, OH 45237-0506 USA
Regular Member
randall.sakai@uc.edu

Dr. John D. Salamone
Psychology
University of Connecticut
Storrs, CT 06269-1020 USA
NonMember
john.salamone@uconn.edu

Ms. Graciela Sanchez-Watts
Biological Science
University of Southern California
3641 Watt Way
Los Angeles, CA 90089-2520 USA
Student Nonmember
sanchezw@usc.edu

Ms. Jessica C Santollo
Psychology
Florida State University
280 John Knox Road Apt 112
Tallahassee, FL 32303 USA
Student Member
santollo@neuro.fsu.edu
Dr. Esther van de Wall  
Endocrinology  
Albert Einstein College of Medicine, Yeshiva University  
1300 Morris Park Avenue  
Bronx, NY 10461 USA  
NonMember  
evandewa@aeom.yu.edu

Ms. Marianne Van Wagner  
Executive Coordinator  
SSIB Central Office  
8181 Tezel Road, #10269  
San Antonio, TX 78250 USA  
Regular Member  
ssib@ssib.org

Dr. Cheryl H Vaughan  
Department of Biology  
Georgia State University  
24 Peachtree Center Avenue  
Atlanta, GA 30303-4010 USA  
Student Member  
chvaugha@ufl.edu

Ms. Neeltje Vogels  
Human Biology  
Maastricht University  
Universiteitssingel 50  
Maastricht 6200 MD, THE NETHERLANDS  
Student Member  
N.Vogels@HB.Unimaas.NL

Dr. Nora D. Volkow  
Office of the Director  
National Institute on Drug Abuse  
6001 Executive Blvd., Rm 5274--MSC 9581  
Bethesda, MD 20892 USA  
NonMember  
vvolkow@nida.nih.gov

Dr. Susan Volman  
NIDA  
6001 Executive Blvd., Rm. 4282, MSC 9555  
Bethesda, MD 20892-9555 USA  
NonMember  
vvolman@nida.nih.gov

Ms. Heather G Ward  
Pharmacology & Physiology  
Drexel University College of Medicine  
245 N 15th Street, New College Building, Mail Stop 488  
Philadelphia, PA 19102 USA  
Student Member  
hgf23@drexel.edu

Dr. Alan G. Watts  
Neuroscience Program  
University of Southern California  
HEDCO Neuroscience Building, 3614 Watt Way, m.c.2520  
Los Angeles, CA 90089 USA  
Regular Member  
watts@usc.edu

Dr. Aron Weller  
Dept. of Psychology  
Bar-Ilan University  
Geha Road  
Ramat-Gan, IL-52900 ISRAEL  
Regular Member  
weller@mail.biu.ac.il

Dr. Paul J. Wellman  
Dept. of Psychology  
Texas A & M University  
College Station, TX 77843 USA  
Regular Member  
pjw@Psych.tamu.edu

Dr. Margriet S. Westerterp-Plantenga  
Department of Human Biology  
Maastricht University  
PO Box 616  
Maastricht, THE NETHERLANDS  
Regular Member  
m.westerterp@hb.unimaas.nl

Dr. Cyrilla H. Wideman  
Dept. of Biology  
John Carroll University  
20700 North Park Blvd.  
Cleveland, OH 44118 USA  
Regular Member  
cwideman@jcu.edu

Dr. Peter Y. Wielinga  
Institute of Veterinary Physiology  
Vetsuisse Faculty University of Zürich  
Winterthurerstrasse 260  
Zürich, ZH 8037 SWITZERLAND  
Student Member  
wielinga@vetphys.unizh.ch

Dr. Diana L. Williams  
Dept of Medicine Univ of Washington  
Harborview Medical Center, 325 9th Avenue, Box 359675  
Seattle, WA 98106 USA  
Post Doc Member  
dianalw@u.washington.edu

Dr. Barbara C. Woodside  
Center for Studies in Behavioral Neurobiology, Psychology Dept  
Concordia University  
7141 Sherbrooke St. W  
Montreal, QC H4B 1R6 CANADA  
NonMember  
barbara.woodside@concordia.ca

Mr. SangBae Yoo  
Department of Pharmacology  
BK 21 Project for Medical Science, Yonsei Univ College of Medicine  
C.P.O. Box. 8044 Seoul 120-752, KOREA  
Student Member  
sbyoo@yumc.yonsei.ac.kr

Ms. Zhiping Yu  
Nutritional Science  
The Pennsylvania State University  
133A South Henderson University Park, PA 16802 USA  
Student Member  
zuy100@psu.edu

Dr. Huiyuan Zheng  
Pennington Biomedical Res Center  
6400 Perkins Road  
Baton Rouge, LA 70808 USA  
Regular Member  
zhengh@pbrc.edu

Mr. Phillip Rick Zoladz  
Psychology  
Univ of South Florida  
4202 E. Fowler Ave.  
Tampa, FL 33620 USA  
Student Member  
zoladzph@hotmail.com
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 web site (http://www.ssib.org), or by contacting the Central Office.

Central Office

Marianne Van Wagner, Executive Coordinator
SSIB Central Office
8181 Tezel Road, #10269
San Antonio, TX 78250 USA

Tel.: 830-796-9393 or 1-866-377-4416 (toll-free from within the US)
Fax: 830-796-9394
Email: ssib@ssib.org
Tuesday, July 18, 2006
10:00-12:00  LRPC Meeting – Acacia I & II
12:15-14:15  SSIB Board Meeting – Acacia I & II
15:00-17:30  Registration – Royal Palm Foyer East
18:00-19:30  Welcome Reception – Mangrove Pool Area
19:30-21:30  Students Only--Get Acquainted Social Event – TBA

Wednesday, July 19, 2006
8:15-8:30  Greeting – President - Royal Palm IV
8:30-10:30  Symposium 1 - Royal Palm IV - Neural and Endocrine Adaptations Affecting …
8:30-10:30  Oral Session 1 - Royal Palm I-III - Satiety and Binge Eating
10:30-11:00  Break/Exhibitors’ Display - Location: Royal Palm VI-VIII
11:00-12:00  Masterfoods Keynote Lecture Series – L. BARTOSHUK - Royal Palm IV
4:00-6:00  New Investigator Symposium – Royal Palm IV
6:00-7:30  Poster Session 1 – Royal Palm VI-VIII

Thursday, July 20, 2006
8:30-10:30  Symposium 2 - Royal Palm IV - Basic & Clinical Science of Ingestion and Reward
8:30-10:30  Oral Session 2 - Royal Palm I-III - GI Peptides
10:30-11:00  Break/Exhibitors’ Display - Location: Royal Palm VI-VIII
11:00-12:00  Masterfoods Keynote Lecture Series – A.J. HILL - Royal Palm IV
4:00-6:00  NIH Sponsored Symposium – Royal Palm IV - Images of Ingestive Behavior
6:00-7:30  Poster Session 2 – Royal Palm VI-VIII

Friday, July 21, 2006
8:30-10:30  Symposium 3 - Royal Palm IV - Forebrain & Hindbrain: Neural Network …
8:30-10:30  Oral Session 3 - Royal Palm I-III - Weight Regulation and Obesity
10:30-11:00  Break/Exhibitors’ Display - Location: Royal Palm VI-VIII
11:00-12:00  Masterfoods Keynote Lecture Series – W.A. BANKS - Royal Palm IV
4:00-6:00  Symposium 4 – Royal Palm IV - Interactions among Food, Water and Salt Intake
4:00-6:00  Oral Session 4 – Royal Palm I-III - Central Mechanisms of Feeding
6:00-7:30  Poster Session 3 – Royal Palm VI-VIII

Saturday, July 22, 2006
8:30-10:30  Symposium 5 – Royal Palm IV - Food Reward: A Critical Factor in the Etiology…
8:30-10:30  Oral Session 5 - Royal Palm I-III - Substrate Utilization and Energy Balance
10:30-11:00  Break/Exhibitors’ Display - Location: Royal Palm VI-VIII
11:00-12:00  Masterfoods Keynote Lecture Series – T. BARTNESS - Royal Palm IV
1:30-3:30  Symposium 6 - Royal Palm IV - Stress and Obesity
1:30-3:30  Oral Session 6 - Royal Palm I-III - Preferences/Aversions
3:45-4:15  Alan N. Epstein Research Award - Royal Palm I-III – T. LUTZ
4:15-4:45  Distinguished Career Award - Royal Palm I-III – J. GIBBS
5:00-6:00  Business Meeting (OPEN TO ALL SSIB MEMBERS) - Royal Palm I-III
7:00-12:00  Banquet – Dinner and Dancing - Royal Palm IV-V
Next SSIB Meeting

July 24-29, 2007

Sheraton Steamboat Resort
Steamboat Springs, Colorado, USA