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2003

July

15 - 19

Program

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Groningen

2002-2003

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ABSTRACTS (not published in <i>Appetite</i>).....	24-27
BOARD/OFFICERS	inside front cover
HONORS / AWARDS	3
PARTICIPANTS DIRECTORY	28-38
POSTERS	17-23
PROGRAM	4-23
Tuesday, July 15.....	4
Wednesday, July 16.....	4
Thursday, July 17.....	8
Friday, July 18.....	10
Saturday, July 19.....	13
SOCIETY INFORMATION AND MEMBERSHIP	39
SPONSORS / ACKNOWLEDGMENTS	2
SUMMARY PROGRAM.....	inside back cover
2003 ANNUAL MEETING	back cover

Dear Colleagues,

Welcome to the 11th Annual Meeting of the Society for the Study of Ingestive Behavior, here in the charming university town of Groningen, Netherlands. Our hosts, Anton Scheurink and Jan Strubbe, and the local organizing and program committees, have done everything possible to make us comfortable and to make our meeting a success, which I am confident it will be. This year's annual meeting marks several firsts – thanks to the initiative of John De Castro and the generosity of Masterfoods, we will have a series of four Keynote Lectures which I'm sure you'll want to attend. New this year also are two satellite meetings held in association with our main meeting, one at Maastricht, Netherlands, and the other at Ascona, Switzerland, a tradition which I hope will continue. Thanks to the generosity of NIDDK and our many corporate sponsors, SSIB has been able to award 24 New Investigator travel awards this year, the largest number ever. We look forward to hearing the work of our newest members at the New Investigator Awards Symposium, and throughout the program. Finally, there will be a special symposium honoring our valued colleague Anton Steffens at the close of our meeting on Saturday.

We're in for a high quality scientific program, and the stimulating company of our many colleagues. Please enjoy yourself!

Joseph R. Vasselli
SSIB President 2002-2003

Local Organizers, SSIB 2003 Annual Meeting

Anton Scheurink, University of Groningen
Jan Strubbe, University of Groningen

Program Committee, SSIB 2003 Annual Meeting

Wolfgang Langhans, Chairperson
Anton Scheurink, Local Organizer
Susan Aja, New Investigator
Hans-Rudolf Berthoud
Susan Johnson
Randall Sakai
Laurence Tecott
Margriet Westerterp-Plantenga

SPONSORS / ACKNOWLEDGMENTS

On behalf of the entire membership of the Society for the Study of Ingestive Behavior (SSIB), The Board and the Organizing Committee of the 2003 Annual Meeting sincerely thank the following organizations for their generous support of the Society:

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* * *

We would also like to thank all the individual SSIB members who made personal contributions to the Society this year.

HONORS AND AWARDS

Distinguished Career Award

Sponsored by *Johnson & Johnson Pharmaceutical Research & Development*
Stylianos Nicolaidis: The mechanism of feeding from A to Z.

Alan N. Epstein Research Award

Linda Rinaman: The dorsal vagal complex as an ingestive control center.

New Investigator Awards

Listed alphabetically here and marked in the program with #.

Dr. Elsa Addressi, *CNR, ITALY*

Dr. Claire A. Cannon, *University of Washington, USA*

Ms. Samantha J. Caton, *University of Liverpool, ENGLAND*

Mr. Michael M. Chi, *Purdue University, USA*

Dr. Young K. Cho, *Penn State College of Medicine, USA*

Ms. Diane E. Day, *Georgia State University, USA*

Ms. Marleen HM de Groot, *Dalhousie University, CANADA*

Ms. Deann P. Dixon, *Florida State University, USA*

Ms. Alicia M. Doerflinger, *Purdue University, USA*

Dr. Deborah Drazen, *University of Cincinnati College of Medicine, USA*

Dr. Catherine A. Forestell, *Monell Chemical Senses Center, USA*

Ms. Elizabeth R. Garduno, *Columbia University, USA*

Dr. Suriyaphun S. Mungarndee, *The Pennsylvania State University, College of Medicine, USA*

Ms. Mary M. Nguyen, *University of Cincinnati, USA*

Ms. Caroline Patten, *University of Pennsylvania, USA*

Mr. James H. Peters, *Washington State University, USA*

Ms. Heidi Rivera, *Florida State University, USA*

Dr. Nicole M. Sanders, *VAMC, USA*

Mr. Derek J. Snyder, *Yale University School of Medicine, USA*

Dr. April Strader, *University of Cincinnati Medical School, USA*

Dr. Gregory M. Sutton, *Pennington Biomedical Research Center, USA*

Ms. Kellie Tamashiro, *University of Cincinnati, USA*

Ms. Andrea L. Tracy, *Purdue University, USA*

Ms. Sandrine Wetzler, *INRA, FRANCE*

PROGRAM

The 2003 SSIB meeting will be held at the Biological Center in Haren. The Biological Center is one of the 150 buildings of the University of Groningen and is located in Haren, a village 5 km south of the center of Groningen.

Each meeting room is equipped with a computer connected to the Internet, a LCD projector (powerpoint beamer), a slide projector and an overhead projector. In 2002, the SSIB board decided that PowerPoint presentations will be the conference standard.

Presenting authors are indicated by **Bold** type.

Tuesday, July 15

- 13:00-17:00 **Pre-registration** – Empire Room
Hotel Schimmelpenninckhuys, Oosterstraat 53, Groningen
- 13:00-15:00 **LRPC Meeting** – Orangerie Room, Hotel Schimmelpenninckhuys
- 15:00-17:00 **Board Meeting** – Orangerie Room, Hotel Schimmelpenninckhuys
- 18:30-19:30 **Welcome Reception** – Academiegebouw, University Aula,
Broerstraat 5, Groningen

Wednesday, July 16

- 08:00-14:00 **Registration** – Foyer
- 08:45-09:00 **Opening:** J. Vasselli – Large Room
- 09:00-10:30 **Oral Session 1:** Learning and Memory (Chair: A. Scalfani) – Red Room
- 09:00-09:15 **B.S. Kwon**, S.M. McCormack and T.A. Houpt: Analysis of AP-1 gene expression during conditioned taste aversion using laser capture microdissection of amygdala.
- 09:15-09:30 **T.A. Houpt**, A. Cason, M. Denbleyker, K. Ferrence and J.C. Smith: Labyrinthectomy blocks acquisition of conditioned taste aversions induced by high strength magnetic fields.

- 09:30-09:45 **J.L. Ferris** and K.P. Myers: Preweanling rats are sensitive to nutrient-conditioned flavor preferences.
- 09:45-10:00 **M-P. Ruffin** and V. Lang: Carbohydrates' quality affects learning performance in the rat.
- 10:00-10:15 **D. Benton**, S. Nabb, M-P. Ruffin and V. Lang: The influence on memory of breakfasts differing in the content of rapidly and slowly available glucose.
- 10:15-10:30 **E.L. Gibson**: Learnt protein appetite in human beings: Involvement of cortisol in postingestive reinforcement by protein intake.
- 09:00-10:30 **Oral Session 2: Central Peptides** (Chair: S.C. Woods) – Large Room
- 09:00-09:15 D.J. Clegg, **S.C. Benoit**, S.C. Woods and R.J. Seeley: A comparison of NPY, AGRP, MCH, and Orexin A on multiple ingestive measures.
- 09:15-09:30 **L.F.H. Faulconbridge**, J.M. Kaplan and H.J. Grill: Reversal of ghrelin hyperphagia by NPY Y1R antagonist delivery to the fourth ventricle.
- 09:30-09:45 **K.L. Grove**, B.E. Grayson, M.A. Cowley and M.S. Smith: Arcuate-neuropeptide Y (ARH-NPY) neuronal projections develop prenatally in the third trimester in the nonhuman primate (NHP).
- 09.45-10:00 J. Zhang, R. Speth, S. Simasko and **R.C. Ritter**: Hypothalamic injection of targeted toxin for CCK receptive neurons leads to increased 24 hour food intake and weight gain.
- 10:00-10:15 **M. Tang-Christensen**, N. Vrang, S. Ortmann and M. Tschöp: Central administration of Ghrelin has prolonged effects on feeding and locomotor activity – predominantly mediated via the melanocortin system.
- 10:15-10:30 M. Massi, N. Geary and **C. Polidori**: MTII, AGRP (83-132) and SHU9119 do not influence ethanol intake in Marchesian-Sardinian alcohol-preferring rats.
- 10:30-11:00 **Coffee Break**
- 11:00-12:00 **Masterfoods Keynote Lecture Series** (Chair: J. de Castro) – Large Room
Angelo Tremblay: Genetic and environmental factors promoting obesity.

- 12:00-12:45 **Lunch**
- 12:45-13:30 **Poster Session A**
- 13:30-15:30 **New Investigator Symposium (Sponsored by Research Diets, Inc.)**
(Chair: J. Vasselli) – Large Room
- 13:30-13:45 **N.M. Sanders#** and B.E. Levin: Third ventricular (3V) alloxan temporarily impairs glucoprivic feeding and hyperglycemic responses.
- 13:45-14:00 **C.A. Forestell#** and V.M. Lolordo: Palatability shift in flavour preference conditioning.
- 14:00-14:15 **A.D. Strader#**, T. Vahl, D.A. D'Alessio and R.J. Seeley: Enteroendocrine changes following ileal transposition in the rat.
- 14:15-14:30 **D.L. Drazen#**, J.D. Schurdak, R.J. Seeley and S.C. Woods: Daily central injections of NPY prepare rats for meal consumption.
- 14:30-14:45 **D.J. Snyder#**, V.B. Duffy, A.K. Chapo, L.E. Cobbett and L.M. Bartoshuk: Food preferences mediate relationships between otitis media and body mass index.
- 14:45-15:00 **D.E. Day#** and T.J. Bartness: Agouti-related peptide increases food hoarding more than food intake in Siberian hamsters.
- 15:00-15:15 **G. Sutton#** and H.-R. Berthoud: TRH mRNA expression in neurons of the caudal raphe nuclei is modulated by nutritional state, diurnal cycle, and orexin: Possible role in thermogenesis and gastrointestinal functions related to energy homeostasis.
- 15:15-15:30 **A.L. Tracy#**, R.J. Phillips, M.M. Chi#, T.L. Powley and T.L. Davidson: Food aversion learning based on intragastric macronutrient cues.
- 15:30-16:00 **Coffee Break**
- 16:00-18:00 **Oral Session 3:** Environmental and Social Influences (Chair: M.M. Hetherington) – Red Room
- 16:00-16:15 **F. Bellisle**, A.M. Dalix and G. Slama: Distraction during meals induces increased intake in adult women: Comparison of two distractors (television

- increased intake in adult women: Comparison of two distractors (television versus auditory stimulus).
- 16:15-16:30 **N. Stroebele** and J.M. De Castro: Does television viewing influence food intake?
- 16:30-16:45 **D.A. Levitsky**, M. Nussbaum, C.A. Halbmaier and G. Mrdjenovic: The Freshman 15: A model for the study of techniques to curb the “epidemic” of obesity.
- 16:45-17:00 **G. Van Dijk** and B. Buwalda: Interactions between social stress and chronic high-fat feeding as reflected in stress responsivity and metabolic functioning in male rats.
- 17:00-17:15 **K.L.K. Tamashiro**#, M.M.N. Nguyen#, L.Y. Ma, D.A. D’Alessio, S.C. Woods and R.R. Sakai: Chronic social stress and recovery: Changes in body composition.
- 17:15-17:30 **D.J. Wallis** and M.M. Hetherington: The effects of three different Stroop tasks on perceived anxiety and chocolate intake.
- 17:30-17:45 **E. Adnessi**# and E. Visalberghi: The role of social influences on food neophobia in tufted capuchin monkeys (*Cebus apella*).
- 17:45-18:00 **B. Wansink** and B. Kahn: Assortment structure’s influence on perceived variety and consumption quantities.
- 16:00-18:00 **Symposium 1 (Sponsored by GlaxoSmithKline):** Peripheral Peptides and Eating Disorders (Organizer: A. Geliebter) – Large Room
- 16:00-16:30 **N. Geary**: Endocrine signals in the control of eating.
- 16:30-17:00 **H.R. Kissileff**, J. Guss, M. Devlin, E. Zimmerli and B.T. Walsh: Cholecystokinin (CCK) and bulimia nervosa (BN).
- 17:00-17:30 **A. Geliebter**: Ghrelin and Binge Eating Disorder.
- 17:30-18:00 **G.S. Birketvedt**, J. Sundsfjord and J. Florholmen: Leptin and cortisol in the Night Eating Syndrome.
- 19:00-20.00 **Women’s Forum** – Orangerie Room, Hotel Schimmelpenninckhuys

Thursday, July 17

- 08:00-14:00 **Registration** – Foyer
- 08:30-10:30 **Oral Session 4:** Food Components and Properties (Chair: M. S. Westerterp-Plantenga) – Red Room
- 08:30-08:45 **J.E. Cecil**, D. Wallis, I. Murrie, J. McMonagle and M.M. Hetherington: Food intake in school children: Energy compensation or adjustment?
- 08:45-09:00 **S.J. Caton#**, M. Ball, A. Ahern and M.M.Hetherington: Dose-dependent effects of alcohol on appetite and food intake.
- 09:00-09:15 **N. Vogels**, I. Nijs and M.S. Westerterp-Plantenga: Grape seed extract affects energy intake in humans.
- 09:15-09:30 **E.M.R. Kovacs**, M.P.G.M. Lejeune, I. Nijs and M.S. Westerterp-Plantenga: Effects of green tea on weight maintenance after body weight loss.
- 09:30-09:45 **S. Peikin**, A. Bakal and R. Portman: The effect of a glycomacropeptide caffeine combination on energy consumption and satiety parameters.
- 09:45-10:00 **M.G. Tordoff** and Q. Zhang: Influence of dietary calcium on the body weight of obese rats and mice.
- 10:00-10:15 **T.L. Davidson**, R. Scheve, J.W. Mak and A.L. Tracy#: A role for food viscosity in caloric intake and body weight regulation.
- 10:15-10:30 **A. Geliebter**, E. Yahav, S. Haq and S.A. Hashim: Effects of high fiber oatmeal breakfast on appetite, body weight, and cholesterol.
- 08:30-10:30 **Symposium 2:** Approaches to Ingestive Behavior Analysis in Mutant Mice (Organizer: L. Tecott) – Large Room
- 08:30-09:00 **J.M. Overton:** Behavioral and physiologic responses to reduced caloric availability in mice.
- 09:00-09:30 **T.H. Moran:** S. Bi and E.E. Ladenheim: CCK and GRP receptor deficient mice demonstrate alterations in meal patterns consistent with disruptions in satiety.

- 09:30-10:00 **C.M. Cannon#** and R.D. Palmiter: Reward in dopamine deficient (DD) mice.
- 10:00-10:30 **L.H. Tecott**, E.H. Goulding, K. Schenk, P. Jujena, J. Wade and A.L. Waingold: Quantitative “behavioral informatics” approaches to genetic influences on ingestive behavior.
- 10:30-11:00 **Coffee Break**
- 11:00-12:00 **Masterfoods Keynote Lecture Series** (Chair: J. de Castro) – Large Room

Paul Rozin: Prosaic but powerful: The importance of understanding the environment in understanding human food intake regulation and human food choice.
- 12:00-13:00 **Business Meeting** - Large Room
- 13:00-14:00 **Lunch**
- 14:00-15:30 **Oral Session 5**: Glucose Sensing, from Receptor to Behavior (Chair: H.R. Kissileff, Co-Chair: M. Ciampolini) – Large Room
- 14:00-14:15 **V.H. Routh**: Glucosensing neurons.
- 14:15-14:30 **A. Sclafani** and K. Ackroff: Dietary glucose reward sensing.
- 14:30-14:45 **K.L. Teff**, M. Petrova and R. R. Townsend: Hyperglycemia: Effect on hormonal release, heart rate variability and food intake in humans.
- 14:45-15:00 **M.S. Westerterp-Plantenga**, K.J. Melanson and E.M.R. Kovacs: Blood glucose dynamics and feeding patterns.
- 15:00-15:15 **M. Ciampolini**, B. De Pont, M. Van Weeren, W. De Haan and L. Borselli: Estimates of blood glucose are accurate after training by pairing of self-sensing with glycemia measurement.
- 15:15-15:30 **H.R. Kissileff** and D.A. Booth: Measuring the effectiveness of glucose-sensing in controlling human intake of food.

- 14:00-15:30 **Oral Session 6:** Monoamines (Chair: D.W. Gietzen) – Red Room
- 14:00-14:15 **C.M. Cannon#** and R.D. Palmiter: Dopamine D2 receptors are necessary for weight gain during chronic treatment with the antipsychotic sulpiride.
- 14:15-14:30 M. Haburcak, A.A. Dunn-Meynell, B.G. Hoebel, B.E. Levin and **E.N. Pothos**: Dietary obesity depresses the mesoaccumbens dopamine system: Is food intake compensating?
- 14:30-14:45 **P.J. Currie**, D. Park, A. Mirza and C.D. Coiro: Nitric oxide synthase inhibitors reduce hyperphagia induced by raphe injections of the 5-HT1A agonist 8-OH-DPAT.
- 14:45-15:00 **J.D. Fernstrom** and S. Choi: Serotonin reuptake inhibitors do not prevent 5,7-dihydroxytryptamine-induced serotonin depletion in rat brain.
- 15:00-15:15 **D.M. Savastano**, M.R. Hayes and M. Covasa: Serotonin type-3 receptor participation in nutrient-induced satiation.
- 15:15-15:30 **K.J. Simansky**, A.G. Romano, D.W. Murphy and D.M. Nicklous: Further evidence for a role for serotonergic 5-HT1B receptors in feeding in rabbits: A suggestion about mechanism.
- 15:30-22:00 **Free Afternoon**

Friday, July 18

- 08:00-14:00 **Registration/Information Desk** – Foyer
- 08:30-10:30 **Oral Session 7:** Gut Peptides (Chair: G.P. Smith) – Red Room
- 08:30-08:45 **E.E. Ladenheim**, N.L. Hamilton and T.H. Moran: Effects of feeding-related peptides in bombesin receptor subtype-3 deficient mice.
- 08:45-09:00 **T.H. Moran**, S. Knipp, U. Smedh and E.E. Ladenheim: PYY(3-36) inhibits food intake and gastric emptying in rhesus monkeys.
- 09:00-09:15 **W.A.M. Blom**, H.F.J. Hendriks, A. Stafleu, C. De Graaf, F.J. Kok and G. Schaafsma: Ghrelin and appetite responses after liquid breakfasts varying in energy content and carbohydrate structure.

- 09:15-09:30 **D.L. Williams**, J.M. Kaplan, D.E. Cummings and H.J. Grill: Vagotomy dissociates consumption- and deprivation-related controls of endogenous ghrelin.
- 09:30-09:45 A. Dsilna, T.H. Moran, L. Vermin and **U. Smedh**: Gastric emptying and plasma levels of cholecystokinin and ghrelin in relation to feeding paradigm and tube positioning in very premature infants.
- 09:45-10:00 **J. Hernandez**, M. Hulce and R. Reidelberger: Abdominal vagal mediation of the satiety effects of CCK in rats.
- 10:00-10:15 **S. Bi**, S.B. Knipp and T.H. Moran: OLETF rats lacking CCK-A receptors exhibit altered responses to acute food deprivation.
- 10:15-10:30 **P. Sanchez** and G.P. Smith: CCK-33 mediates the satiating effect of duodenal preloads of intralipid or oleic acid in rats that have abdominal vagal innervation restricted to the liver.
- 08:30-10:30 **Symposium 3 (Sponsored by Ajinomoto Co.): Brain Mechanism on Recognition of Amino Acid Intake during Meals and Digestion** (Organizers: E.T. Rolls and K. Torii) – Large Room
- 08:30-09:00 **E.T. Rolls**: Brain mechanisms that analyse glutamate taste and their relation to the control of feeding.
- 09:00-09:30 **J. Brand**. Mechanisms of taste reception for amino acids.
- 09:30-10:00 **K. Torii**, H. Uneyama, and A. Nijjima: Vagus nerve response to amino acid as chemical sense and control of preference.
- 10:00-10:30 **H. Nishijo**, T. Ono, and R. Norgren. Recognition of food stimuli including amino acids in the brain.
- 10:30-11:00 **Coffee Break**
- 11:00-12:00 **Masterfoods Keynote Lecture Series - (Chair: J. de Castro) - Large Room**
Gareth Williams: Progress at the frontiers of obesity research: Two steps forward, one step back?

- 12:00-12:45 **Lunch**
- 12:45-13:30 **Poster Session B**
- 13:30-15:30 **Oral Session 8:** Peripheral Signals, Nutrients, and Energy Balance (Chair: H-R. Berthoud) – Red Room
- 13:30-13:45 **T.A. Lutz**, G.L. Edwards, V. Grabler, C. Becskei and T. Riediger: Amylin's anorectic effect depends on an intact lateral parabrachial nucleus (IPBN).
- 13:45-14:00 **T.C.M. Adam** and M.S. Westerterp-Plantenga: Long term effect of physical activity induced weight-loss on GLP-1 release in overweight subjects.
- 14:00-14:15 **M. Senn** and W. Langhans: Adipose tissue mRNA levels of leptin, TNF α , LPL, and GLUT-4 in dairy cows in relation to parturition and lactation.
- 14:15-14:30 N. Darcel, G. Fromentin, O. Rampin, D. Gietzen, H. Raybould, **D. Tomé**: C-fos identification of brain areas involved in high protein diet-induced satiety.
- 14:30-14:45 **D.W. Gietzen**, J.W. Sharp, C.M. Ross, S.Z. Hao and T.J. Koehnle: Biochemical correlates of the early (15-30 min) anorectic response to amino acid (AA) deficient diets in the AA sensor, anterior piriform cortex (APC).
- 14:45-15:00 **S.E. La Fleur**, S.F. Akana, S.L. Manalo and M.F. Dallman: Corticosterone promotes adiposity and food intake but does not determine lard ingestion (in diabetes).
- 15:00-15:15 **E.R. Garduno#**, P.J. Currie, K. Chen, J.A. Johnson and J.R. Vasselli: Intracerebroventricular (ICV) leptin administration stimulates peripheral lipolysis in rats at a feeding-inhibitory dose.
- 15:15-15:30 **S. Wetzler#**, P.C. Even, D. Tomé and C. Larue-Achagiotis: Acute 3rd ventricular administrations of leptin decrease food intake and modify food choice of rats.
- 13:30-15:30 **Symposium 4 (Sponsored by the Unilever Health Institute):** Effects of Palatability and Energy Density on Appetite in Humans (Organizer: M.R. Yeomans) – Large Room

- 13:30-14:00 **M.R. Yeomans:** Effects of manipulated palatability and energy density on appetite.
- 14:00-14:30 **J. Stubbs:** Energy density diet composition and palatability.
- 14:30-15:00 **M.S. Westerterp-Plantenga:** Managing energy density effects on the long term.
- 15:00-15:30 **D.J. Mela:** Palatability and energy density: An industrial perspective.
- 15:30-16:00 **Coffee Break**
- 16:00-17:30 **Award Lectures - Large Room**
- Alan N. Epstein Research Award** (Chair: N. Geary)
Linda Rinaman: The dorsal vagal complex as an ingestive control center.
- Distinguished Career Award** (Chair: R. Norgren)
 Sponsored by Johnson & Johnson Pharmaceutical Research & Development
Stylianos Nicolaidis: The mechanism of feeding from A to Z.
- 19:30-01:00 **Banquet** – Hotel Schimmelpenninckhuys

Saturday, July 19

- 09:00-12:00 **Registration/Information Desk** – Foyer
- 09:00-10:30 **Oral Session 10:** Eating Disorders/Sex Differences (Chair: L.A. Eckel) – Red Room
- 09:00-09:15 **L. Asarian, A. Wolfe and N. Geary:** Differential effect of estradiol (E) treatment on c-Fos expression induced by intraduodenal (ID) infusions of Intralipid (IL) and L-phenylalanine (PHE) in the nucleus tractus solitarius (NTS) of ovariectomized rats.
- 09:15-09:30 **D.J. Clegg, S.C. Benoit, M.E. Fisher, J.G. Barrera, R.J. Seeley and S.C. Woods:** Sex hormones determine body fat distribution and sensitivity to adiposity signals.

- 09:30-09:45 **M. Gluck**, A. Geliebter, H. Park and J. Schroder: Obese women with binge eating disorder (BED) report more stress and pain, related to increased hunger and desire to binge eat following a cold pressor test (CPT).
- 09:45-10:00 **J. de Castro**: Behavioral genetics of restrained eating.
- 10:00-10:15 **S.O. Fetissov** and T. Hökfelt: Autoimmune component in anorexia and bulimia nervosa. A new hypothesis for eating disorders.
- 10:15-10:30 C. Bergh, U. Brodin and **P. Södersten**: Effective treatment of eating disorders.
- 09:00-10:30 **Oral Session 9**: Salt and Water Balance (Chair: R.R. Sakai) – Large Room
- 09:00-09:15 **M. Leshem**: Salt preference, taste papillae, PROP response, BMI and ethnicity.
- 09:15-09:30 E.M. Stricker, **M.L. Hoffmann**, A.F. Sved, C.J. Riccardi and J.C. Smith: Rapid inhibition of vasopressin secretion when thirsty rats drink water.
- 09:30-09:45 **E.M. Stricker**, M.L. Hoffmann, C.J. Riccardi and J.C. Smith: Increased water intake by rats maintained on high NaCl diet: Analysis of ingestive behavior.
- 09:45-10:00 **R.S. Weisinger**, N. Chen, M.L. Mathai, A.J. Sinclair and H.S. Weisinger: Perinatal dietary omega-3 fatty acid manipulation affects neural control of sodium homeostasis in adulthood.
- 10:00-10:15 **R.F. Lundy Jr.**, V.G. Caloiero and R. Norgren: Furosemide supports acquisition of a learned taste aversion.
- 10:15-10:30 **Y.K. Cho#**, M.E. Smith, R. Norgren: Low dose furosemide modulates taste responses in the nucleus of the solitary tract (NST) in the rat.
- 10:30-11:00 **Coffee Break**
- 11:00-12:00 **Masterfoods Keynote Lecture Series** (Chair: J. de Castro) – Large Room
Michael McKinley: Pathophysiological influences on thirst causing abnormal water intake: Studies of animal models.

- 12:00-12:45 **Lunch**
- 12:45-13:30 **Poster Session C**
- 13:30-15:30 **Oral Session 11:** Metabolic Controls (Chair: N. Geary) – Red Room
- 13:30-13:45 **K. Brandt**, M. Leonhardt and W. Langhans: Effect of CLA and HCA on insulin sensitivity in male rats fed a high fructose diet after substantial body weight loss.
- 13:45-14:00 **P.Y. Wielinga**, J.W. Klunder, B. Bouter, J. Louter-Vd Haar, K.J. Keizer, A. Nieuwenhuizen, J.H. Strubbe and A.J.W. Scheurink: The effects of (-)-hydroxycitric acid (HCA) and grape seed on food intake, body weight and metabolism.
- 14:00-14:15 S. Dewan, A. Gillett, J.A. Mugarza, **T.M. Dovey**, J.C.G. Halford and J.P.H. Wilding: Insulin-induced hypoglycaemia causes a tendency to increase fat consumption in humans.
- 14:15-14:30 **M. Leonhardt** and W. Langhans: Effect of the β 3-adrenergic-receptor agonist CGP-12177A and the α 1-adrenergic receptor antagonist Prazosin on food intake and hepatic fatty acid oxidation in male rats.
- 14:30-14:45 **A. Doerflinger#**, M.A. McCurley and S.E. Swithers: 2-Mercaptoacetate administration has differential effects on ingestive behavior in 18- and 30-day-old rats.
- 14:45-15:00 **U.L. Jambor De Sousa**, M. Leonhardt and W. Langhans: Effect of hepatic portal vein (HPV) caprylic acid (CA) infusion on saccharin preference and gastric emptying in male rats.
- 15:00-15:15 **M.P.G.M. Lejeune**, E.M.R. Kovacs and M.S. Westerterp-Plantenga: Additional protein intake limits weight regain after weight loss in humans.
- 15:15-15:30 **Z. Karádi**, B. Lukáts, SZ. Papp, L. Lénárd and G. Takács: Complex - 'endogenous' and 'exogenous' - chemosensitivity is a general characteristic of glucose-monitoring neurons in the rat forebrain.
- 13:30-15:30 **Symposium 5:** Food Intake in the Face of Plenty: Eating for no good reasons? (Organizers: S. Benoit and G. VanDijk) – Large Room
- 13:30-14:00 **H.R. Berthoud**: How do environment and mind override the homeostatic regulatory system controlling food intake and body weight.

- 14:00-14:30 **T.L. Davidson:** Learning mechanisms involved with energy homeostasis.
- 14:30-15:00 **A. Sclafani:** Oral and post-oral food rewards.
- 15:00-15:30 **D. Figlewicz Lattemann:** Insulin, leptin, and food reward.
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- 15:30-16:00 **Apéro**
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- 16:00-17:30 **Steffens Symposium** (Chairs: M. Westerterp-Plantenga and W. Langhans)
 – Red Room
- S.C. Woods:** Anton Steffens: The man and the method.
- Y. Oomura:** Physiological significance of acidic fibroblast growth factor released by food intake.
- C. Fürnsinn:** Physiological and pharmacological modulation of insulin sensitivity.
- J.H. Strubbe:** Is it all a question of hormones?

Posters

Posterboards will be placed in the corridors, close to the lecture rooms. Posters can be viewed from Wednesday morning to Saturday afternoon. Every poster is identified by a number (1 to 100) and a letter (A, B or C). The letters A, B or C stand for the corresponding poster sessions on Wednesday, Friday and Saturday, respectively. For example, 75 C means that Celine Morens will be present at her poster on Saturday between 12:45 and 13:30. The posters immediately to the right and the left (74 B and 76 A) are scheduled for Friday and Wednesday.

Prepare posters for display on a hardboard surface. Posters will be attached to the poster boards with push pins. Surface area is approximately 3.5 feet high and 4 feet wide. For the top of your poster prepare a banner including the title, authors and institutional affiliations. Lettering for this section should be at least 1 inch high.

The poster number is indicated before the name of the first author.

1 A B. Wansink and K. van Ittersum: Bottoms up! The influence of elongation on pouring and consumption volume.

- 2 B** **M. Fantino**, J. Louis-Sylvestre, D. Guyonnet, N. Gausseres and A. Lluch: A low-fat yogurt eaten when hungry in the afternoon has a more efficient short-term satiety power than a chocolate bar or a fromage frais.
- 3 C** **L.J. Nolan** and L.M. Scagnelli: Preference for sweet foods and higher BMI in patients on methadone maintenance.
- 4 A** **M.R. Yeomans**, C. Haynes, H.M. Tovey and E.M. Tinley: Responsivity to manipulated palatability as a function of scores for restraint and disinhibition from the Three Factor Eating Questionnaire.
- 5 B** **I. Davidson** and D. Miskin: Differences in preference to sensory attributes of food is associated with PROP status.
- 6 C** **E.C. Wuorinen**, K.T. Borer, J.F. Horowitz and C. Burant: Increased fullness and appetite suppression by exercise in postmenopausal women.
- 7 A** **J.L. Guss**, C. Roque, H.R. Kissileff, M. Devlin, E. Zimmerli and B.T. Walsh: Meal size and development of fullness depends on eating rate in patients with Bulimia Nervosa and healthy controls.
- 8 B** **L.J. Nolan** and K.L. Pagano: Self esteem and BMI predict dietary restraint in women.
- 9 C** K. Tokita, Z. Karádi, T. Shimura and **T. Yamamoto**: Forebrain inputs to the parabrachial nucleus under conditioned taste aversion in the rat.
- 10 A** **S.S. Mungarndee#**, R.F. Lundy Jr, R.H. Bonneau, R Norgren. Dissociation of conditioned taste aversion and conditioned immune response resulting from lesions of the central gustatory system.
- 11 C** **K. Ackroff** and A. Sclafani: Sucrose is a more potent postingestive reward than ethanol in conditioning flavor preferences.
- 12 A** **A. Sclafani** and J.I. Glendinning: Flavor preference conditioning in C57BL/6J mice by gastric nutrient infusions.
- 13 B** **C.L. Colbert**, M. Garcea, M. Denblyker, K. Ferrence, P. Maras, J.C. Smith and A.C. Spector: The consequences of massive gustatory deafferentation on feeding and drinking patterns in the rat.
- 14 B** S.P. Travers, K. Herman, C. Shiroor and **J.B. Travers**: Modulation of ingestive function by medullary NOS containing neurons.
- 15 C** A. Amer, C. Adams, W. Chen, K. Weinrich, J. Flynn and **T.J. Maher**: Intranasal administration of the calcium channel blocker diltiazem decreases food intake in hyperphagic rats.

- 16 A** D. L'Heureux-Bouron, D. Tomé, A. Bensaid, C. Morens, P. Even and **G. Fromentin**: Satiety and palatability factors involved in the depression of food intake produced by a high protein diet in rat.
- 17 B** D. L'Heureux-Bouron, D. Tomé, O. Rampin, P. Even, C. Larue-Achagiotis and **G. Fromentin**: Total sub-diaphragmatic vagotomy does not suppress the depression in food intake produced by a high protein diet in the rat.
- 18 C** **M.S. Westerterp-Plantenga**, M.P.G.M. Lejeune, I. Nijs, M. van Ooijen and E.M.R. Kovacs: High protein intake supports weight maintenance after body weight loss in humans.
- 19 A** **M.S. Westerterp-Plantenga**, M.P.G.M. Lejeune and E.M.R. Kovacs: Habitual caffeine intake affects weight-loss and affects the effect of green tea on weight-maintenance thereafter.
- 20 B** **M.M.J.W. Kamphuis**, D.J. Mela and M.S. Westerterp-Plantenga: Diacylglycerol affects fat oxidation and appetite in humans.
- 21 C** **M. Ciampolini**: Environmental temperature between meals and xylose absorption.
- 22 A** **M.M.J.W. Kamphuis** and M.S. Westerterp-Plantenga: The role of linoleic acid taste perception in the etiology of obesity.
- 23 B** **M.P.G.M. Lejeune**, E.M.R. Kovacs and M.S. Westerterp-Plantenga: Effect of capsaicin on substrate oxidation and weight maintenance after modest body weight loss in humans.
- 24 C** K.D. Rice and **Z.S. Warwick**: Individual differences in high-fat diet hyperphagia.
- 25 A** **M.M.N. Nguyen**#, K.L.K. Tamashiro#, L.Y. Ma, D.A. D'Alessio, S.C. Woods and R.R. Sakai: Chronic psychosocial stress effects on body composition, behavioral, and neuroendocrine profiles of mixed-gender VBS rat colonies.
- 26 B** **J.G. Barrara**, S.C. Benoit, G.R. Kelm, R.O. Scott, D.A. D'Alessio, S.C. Woods, S.T. Meller and R.J. Seeley: Meal replacement with an ethyl oleate emulsion reduces food intake and body weight in rats.
- 27 C** **L. Abdallah**, O.P. Murphy and L.H. Tecott: Insensitivity of body weight settling-points to prior dietary history in C57BL6 mice.
- 28 A** **K.P. Myers** and R. Gens: Effects of milk availability during nursing on subsequent fat appetite and conditioned responses to fat.
- 29 B** **M. Koss**, U.L. Jambor de Sousa, M. Bengs, A. Gahl, M.R.L. Scheeder, M.C. Cardoso, H. Leonhardt, N. Geary, W. Langhans and M. Leonhardt: Transgenic over-expression of carnitine palmitoyltransferase 1a (CPT-1a) increases fatty acid oxidation.

- 30 C M. Mangiaracina**, W. Langhans and N. Geary: Mercaptoacetate stimulates eating in untreated ovariectomized rats, but not in estradiol treated ovariectomized rats.
- 31 A T.W. Castonguay**, T. Vahl, J. Reed, R. Seeley, R. Sakai and S.C. Woods: High fat diets promote increased hepatic 11-beta HSD-1 mRNA.
- 32 B C. von Meyenburg**, B.H. Hrupka, D. Arsenijevic, G.J. Schwarz, R. Landmann and W. Langhans: CD14 may affect energy balance and lipid metabolism independent of its immune function.
- 33 C M. Ruiter**, A. Kalsbeek and R.M. Buijs: Influence of the suprachiasmatic nucleus on daily lipid profiles.
- 34 A B. Guesdon**, J. Minet-Ringuet, D. Tomé and P.C. Even. Relation between sleep and peripheral energy metabolism?
- 35 B L. Thibault** and M. Leblanc: Effect of sibutramine on macronutrient selection in male and female rats.
- 36 C S.R. Moore** and L.A. Eckel: Exercise attenuates the hyperphagia associated with a palatable diet in male, but not female, rats.
- 37 A S.D. Bouman**, S. Brugman and A.J.W. Scheurink: Measuring food preference may influence energy metabolism. Changed characteristics in food intake, glucose challenge, and fasting in rats on carbohydrate- or fat-enriched chow.
- 38 B D.P. Dixon#** and L.A. Eckel: Rats that have recovered from activity-based anorexia can regulate their body weight when re-exposed to a restricted-feeding schedule.
- 39 C Y.M. Kim**, H.J. Kim, J.Y. Lee, D.G. Kim and J.W. Jahng: Food deprivation increases pERK, decreases pCREB in the rat PVN.
- 40 A J.Y. Lee**, Y.M. Kim, S. Lee, D.G. Kim and J.W. Jahng: Proteome profiles of the rat brain regions after an intraperitoneal LiCl.
- 41 B H.J. Kim**, M.S. Kim, J.Y. Lee, D.G. Kim and J.W. Jahng: Lithium-induced expression of TH and ICER in the locus ceruleus and the adrenal gland of rat.
- 42 C A.-J. Li** and **S. Ritter**: Role for serotonin (5-HT) in the anorectic response to intracerebroventricular (ICV) lipopolysaccharide (LPS) and interleukin-1b (IL-1b) administration.
- 43 A H. P'Anson** and **S. Ritter**: Immunotoxic destruction of distinct catecholaminergic neuron populations disrupts the reproductive response to glucoprivation in female rats.

44 B S. Andrew and **S. Ritter**: Localized glucoprivation of hindbrain but not hypothalamic sites stimulates corticosterone and glucagon secretion.

45 C A.-J. Li and **S. Ritter**: 2-Deoxy-D-glucose (2DG) increases NPY mRNA expression in hindbrain neurons.

46 A **B.D. Hudson** and S. Ritter: Selective immunotoxin lesion of hindbrain catecholamine neurons with projections to the medial hypothalamus impairs the consummatory feeding response to glucoprivation, but not to lipoprivation or food deprivation.

47 B **M. Abbasnejad**, M. Karimian and H. Jonaidi: The effect of injection of a D2 dopamine (DA) receptor agonist into hypothalamic ventromedial nucleus (VMN) on food and water intake in adult male rats.

48 C **R.F. Genn**, S. Ahn and A.G. Phillips: Attenuated dopamine efflux in the rat nucleus accumbens during consummatory negative contrast.

49 A **C.M. Cannon#** and R.D. Palmiter: Neither dopamine D2 receptors nor norepinephrine are required for amphetamine anorexia.

50 B **A. Hajnal**, G.P. Smith and R. Norgren: Sham-feeding of sucrose increases dopamine and decreases norepinephrine in the nucleus accumbens of the rat.

51 C **A.F. MacDonald**, C.J. Billington and A.S. Levine: Alterations in food intake by opioid and dopamine signaling pathways between the Ventral Tegmental Area and the shell of the Nucleus Accumbens.

52 A **J.P. Voigt**, H. Hörtnagl, L. van Hove, M. Bader, U. Ganten and H. Finki: Effect of serotonergic agents and CCK on food intake in transgenic rats with low brain angiotensinogen.

53 B **S.H. Choi**, J.G. Kim, D.G. Kim and J.W. Jahng: Food intake was suppressed in the rats treated with 5-hydroxy-L-tryptophan, in spite of the increased NPY expression in the arcuate nucleus.

54 C **S. Choi**, C. Patterson, K. Rao, R. Cygnarowicz and J.D. Fernstrom: Chronic treatment with fenfluramine increases hypothalamic neuropeptide Y but not corticotropin releasing factor expression in the rat.

55 A **H.M. Rivera#**, D.P. Dixon# and L.A. Eckel: Fenfluramine-induced hypophagia, but not hypoactivity, is sexually dimorphic.

56 B **P.J. Wellman**, D.H. Ho and J.R. Nation: Differential impact of cocaine on meal patterns in female and male rats.

57 C **L. Thibault** and B. Selmaoui: Circadian rhythmicity of macronutrient intake by reversed feeding rhythms induces low nocturnal secretion of serum melatonin and pineal NAT in rats.

- 58 A M.D. Lee**, G.A. Kennett, C.T. Dourish and P.G. Clifton: Tonic regulation of satiety by 5-HT1B receptors in the mouse: Converging evidence from antagonist studies and CP-94,253-induced c-fos immunoreactivity.
- 59 B M.M. Chi#**, E.A. Fox, R.J. Phillips, E.A. Baronowsky, K.R. Fugo and T.L. Powley: Alterations of short-term intake in mice with genetic or vagal surgical manipulations.
- 60 C D. Arsenijevic**, F. De Bilbao, P. Vallet, P. Giannakopoulos and W. Langhans: Cerebral ischemic injury induced hyperphagia - involvement of PPAR beta and consequence of previous chronic infection.
- 61 A T.A. Lutz, L. Fischer**, S. Haag and E. Scharrer: Leukotrien and purinergic receptors are involved in the hyperpolarizing effect of glucagon on the hepatic membrane potential.
- 62 B M. Piñon**, C.C. Horn, H. Ji and M.I. Friedman: Some considerations for the use of hepatic portal vein cannulation in the study of food intake.
- 63 C E.A. Myers and L. Rinaman**: Conditioned taste aversion after repeated high dose CCK.
- 64 A H.L. Wilson and L. Rinaman**: A2 lesions block LiCl and CCK anorexia.
- 65 B S. Blumberg**, M. Schroder, L. Tsitolovskya, A.-M. Torregrossa, G.P. Smith, I. Hurwitz and A. Weller: Post-preload feeding and brain c-fos immunoreactivity in Long Evans and OLETF preweanling rats.
- 66 C E. Gallmann**, D. Arsenijevic, G. Williams and W. Langhans: Effect of IP CCK infusion on insulin-induced hyperphagia and hypothalamic neuropeptide expression in male rats.
- 67 A G.M. Sutton#**, L.M. Patterson and H.-R. Berthoud: Intraperitoneal CCK administration increases phosphorylation of MAPK in rat solitary nucleus neurons.
- 68 B E.H.E.M. van de Wall**, M.M. Rijkens, J.M. Koolhaas and A.B. Steffens: Central and peripheral cholecystikinin in the control of feeding behavior and meal induced thermogenesis.
- 69 C J.H. Peters#**, R.C. Ritter and S.M. Simasko: Multiple conductances modified by CCK and leptin induce activation of vagal afferent neurons.
- 70 A H. Zheng, M.M. Corkerni, I. Stoyanova, L.M. Patterson, R. Tian, K. Browning, R.A. Travagli and H.-R. Berthoud**: Modulation of brainstem feeding and autonomic mechanisms by hypothalamic peptides.
- 71 B M.R. Hayes**, D.M. Savastano and M. Covasa: Cooperation of 5HT-3 and CCK-A receptors in CCK-induced satiation.
- 72 C K. de Vries**, R.A.H. Adan, C. Nyakas and G. van Dijk: Differential effects of long-term central melanocortin or leptin administration on metabolism and body weight.

- 73 A** **A.D. Strader#**, S.C. Benoit, O. Reizes and R.J. Seeley: The response of syndecan-3 deficient mice to melanocortin receptor agonists.
- 74 B** **C.S. Patten#**, D. Daniels, B.M. Victor, D.K. Yee and S.J. Fluharty: Melanocortin agonist treatment of the melanocortin type 4 receptor increases phosphorylated MAPK in vitro.
- 75 C** **C. Morens**, K. de Vries and G.van Dijk: Dysregulated insulin release in rats following blockade of the melanocortin system during acute, but not chronic exposure to a high-fat diet.
- 76 A** **A.V. Azzara**, D. Kirchoff and G.J. Schwartz: Central NPY promotes progressive ratio instrumental responding for food in mice.
- 77 B** **M.E. Fisher**, S.C. Benoit, C.J. Clegg, S.C. Woods and R.J. Seeley: The effect of orexigenic neuropeptides on intraoral intake of sucrose.
- 78 C** **M.H.M. De Groot#** and B. Rusak: Immunoreactivity for immediate-early gene proteins and orexin A in the brains of mice after food restriction and refeeding.
- 79 A** **A. Thorpe**, P.J. Cleary, A.S. Levine and C.M. Kotz: Centrally administered orexin-A does not increase motivation for sweet pellets under a PR5 schedule.
- 80 B** Y. Furudono, **C. Yamamoto**, M. Kobashi and T. Yamamoto: Orexins play important roles in palatability-induced hyperphagia in rats.
- 81 C** **H. Zheng**, A. Bellard, R. Tian, K.N. Browning, R.A. Travagli and H.-R. Berthoud: Orexin-A administration to dorsal vagal complex augments food intake by counteracting visceral satiety signals.
- 82 A** **A. Wolfe**, M. Massi and N. Geary: Exogenous amylin inhibits ethanol intake in Sardinian alcohol-preferring rats.
- 83 B** **H. Jonaidi**, M.M. Oloumi and D.M. Denbow: The effect of intracerebroventricular (ICV) injection of oxytocin (OT) on feeding behaviors of meat-type chickens.
- 84 C** **J.R. Vasselli**, I. Lee and D.B. Allison: A rat model of antipsychotic drug-induced weight gain.
- 85 A** **J.B. Chambers** and R.J. Seeley: A role for GLP-1 in stress-induced hypophagia and body weight reduction.
- 86 B** **B.R. Treece**, R.C. Ritter and G.A. Burns: Complete subdiaphragmatic vagotomy does not abolish increased food intake following NMDA ion channel blockade.
- 87 C** **S. Higgs** and D.J. Barber: Effects of baclofen on appetitive and consummatory behavior examined in the runway.

88 A F.W. Flynn and E.M. Stricker: Peripheral baroreceptor signals stimulate intraoral water and NaCl intake in intact rats but not in chronic decerebrate rats.

89 B É.E. Bagi, É. Fekete, D. Bányai and L. Lénárd: Different effects of angiotensin II and III microinjections into the zona incerta in the regulation of drinking behaviour of rat.

90 C K.S. Curtis and R.J. Contreras: Sex differences in behavioral and chorda tympani nerve responses to NaCl.

Abstracts for the 2003 SSIB meeting have been published in *Appetite* Vol. 40, Issue 3, pp. 313-372, 2003. Abstracts not published in *Appetite* per the authors' request are printed below in alphabetical order.

Central NPY promotes progressive ratio instrumental responding for food in mice. A. V. AZZARA, D. KIRCHOFF and G. J. SCHWARTZ. *Bourne Behavioral Research Laboratory, Department of Psychiatry, NY Hospital – Weill Cornell Medical College, 21 Bloomingdale Road, White Plains, NY 10605, USA.*

Recent work has suggested that the feeding stimulatory effects of centrally administered neuropeptide Y (NPY) are secondary to its ability to promote the appetitive, rather than the consummatory phase of ingestion. To begin to evaluate this possibility in mice, we tested the effects of central NPY on instrumental responding for food in 5 hour daytime food but not water deprived male C57B6J mice. Mice were trained to perform nose pokes on a progressive ratio (PR) schedule to obtain 20 mg sucrose pellets during a 3 hour daytime access period, with standard chow available at other times. Lateral intracerebroventricular injection of 5 µg NPY dramatically increased progressive ratio instrumental responding (mean increase ~ 800 %) and breakpoint (number of sucrose pellets received) during food rewarded trials. When tested in extinction trials, during which no pellets were delivered, NPY also increased instrumental responding. However, the magnitude of the NPY-induced increase was significantly attenuated relative to food rewarded trials (mean increase ~ 250 %). This contrast suggests that NPY's ability to promote instrumental responding for food depends on orosensory and/or gastrointestinal sensory signals arising from food contact. [Supported by: NIH-DK47208]

Ghrelin and appetite responses after liquid breakfasts varying in energy content and carbohydrate structure. W. A. M. BLOM^{1,2}, H. F. J. HENDRIKS¹, A. STAFLEU¹, C. DE GRAAF^{1,2}, F. J. KOK² and G. SCHAAFSMA^{1,2}. ¹TNO Nutrition and Food Research, Zeist, The Netherlands. ²Wageningen University, Wageningen, The Netherlands.

Plasma concentration of ghrelin, an orexigenic gastric hormone, rises shortly before each meal and decreases immediately after starting a meal (Cummings, et al. NEJM 346:1623-30, 2002). This suggests that ghrelin plays a role in meal initiation. Nevertheless, the role of ghrelin in the regulation of food intake remains largely unknown. We investigated the effects of energy content and carbohydrate structure on plasma ghrelin concentrations and subjective appetite. In a double blind, randomized and cross-over design, the four-hour postprandial appetite and ghrelin responses to three liquid breakfasts and water (the control for volume) were examined. Twenty healthy, non-obese men consumed the four liquids differing in energy content and in carbohydrate structure (CH) (0 kJ, 675 kJ (simple CH), 2688 kJ (simple CH), 2688 kJ (complex CH)). Ghrelin concentrations showed a fast decrease of at least 33 % after the high-energetic breakfasts, a fast decrease of 17 % after the low-energetic breakfast and a gradual increase of 10 % after water intake. Plasma ghrelin concentrations were significantly correlated with subjective measures of appetite ($R > 0.75$; $P < 0.05$). In conclusion, ghrelin concentrations respond rapidly and in a dose-dependent way to energy intake, independent of carbohydrate structure and volume. Ghrelin concentrations are significantly correlated to measures of subjective appetite. These data further substantiate that ghrelin plays a pivotal role in meal initiation.

Mechanisms of taste reception for amino acids. J. G. BRAND. *Monell Chemical Senses Center and Veterans Affairs Medical Center, University of Pennsylvania, Philadelphia, PA 19104-3308, USA.*

Amino acid taste is an important adjunct to the appreciation of flavor. The discovery of a G protein coupled receptor (GPCR) for amino acids, T1R1/T1R3, in mammals has refocused interest in amino acid taste transduction. This GPCR is variably sensitive to amino acids depending upon its composition. For example, the human T1R1/T1R3 GPCR is relatively specific for L-glutamate, while that from mouse is more broadly tuned, recognizing a number of nutritionally important amino acids. The GPCR mechanism may be only one of several receptor types for amino acids. Early studies with the catfish, an animal that possesses very sensitive taste receptors, suggested the presence of at least two types of amino acid receptors: One, likely GPCR's, the others, ligand-gated ion channel receptors (LGIC). One GPCR shows sensitivity to neutral amino acids, much as T1R1/T1R3 does in the mouse, while two LGIC show sensitivity to L-arginine and L-proline, respectively. Whether or not there are mammalian LGIC's is not known. Earlier studies using Ca imaging suggested the presence of an ionotropic glutamate receptor (iGluR) (an LGIC) in mouse taste cells, but it was not possible to determine if this iGluR was acting as a true taste receptor. Recent studies have implicated certain members of the metabotropic glutamate receptor class (mGluR) as having a role in glutamate recognition by the taste cell, and, by inference, in umami taste. The roles that these receptors for glutamate and other amino acids might play in taste transduction will be discussed.

2-Mercaptoacetate administration has differential effects on ingestive behavior in 18- and 30-day-old rats. A. DOERFLINGER, M. A. MCCURLEY and S. E. SWITHERS. *Department of Psychological Sciences, Purdue University, West Lafayette, IN 47907, USA.*

Mercaptoacetate (MA), which interferes with oxidation of fatty acids, can produce increases in intake in both adult and pre-weanling rats (aged 12 and 15 days) by decreasing the latency to initiate intake. However, the effective dose of MA and the duration of its effects differ in young pups compared to adult rats. Although the effects of metabolic blockers and their effects have been examined in pre-weaning rats, less attention has been given to examining the effects of metabolic signals as pups make the transition from consuming only the dam's milk to independent ingestion of solid chow. Work from our lab suggests that MA (68.4 mg/kg; a dose which stimulates intake in adults) suppresses intake of a half-and-half test diet in 18- and 21-day-old pups. Likewise, in 30-day-old pups, MA (68.4 mg/kg) suppresses intake of a half-and-half diet. However, in 30-day-old pups, this dose of MA stimulates intake of a chow test diet. These data suggest that MA has differential effects on intake which depend on the diet offered. The current research characterizes the effects of test diets on the responses to administration of MA in pups at the age of initiating independent intake (18 d). Results indicate that similar to the effects seen in 30-day-old pups, the effects of MA on intake in 18-day-old pups depend on the diet offered. [Supported by: NIDDK 55531]

Gastric emptying and plasma levels of cholecystokinin and ghrelin in relation to feeding paradigm and tube positioning in very premature infants. A. DSILNA, T. H. MORAN, L. VERMIN and U. SMEDH. *Department of Surgery, Lund University Hospital, Lund N/A, SE- 22185, Sweden.*

We compared three tube feeding methods effects on gastric emptying and plasma levels of ghrelin and cholecystokinin in very low birth weight (VLBW) infants as part of a prospective randomized trial. Infants (gestational age of 24 - 29 weeks and birthweight < 1200 g) were recruited as subjects and randomly assigned to one of three tube feeding paradigms within 30 hours of birth: 1.) Continuous nasogastric feeding (CNG group), n = 18; 2.) Intermittent nasogastric feeding every third hour (ING group), n = 16; 3.) Intermittent orogastric feeding with intermittently inserted tube every third hour (IOG group), n = 20. At PMA 32 weeks, the feeding regimens of the IOG group and the CNG groups were gradually changed into intermittent meals over a period of 10 - 14 days, similar to the ING group. At PMA 35 - 36 weeks, gastric emptying was assessed by serial, sonographic recordings of the cross sectional area of the antrum (ACSA), during and after a breast milk feed. In some children, blood was collected immediately before and 40 min after a feed, at 32 weeks PMA, and again at 37 - 38 weeks PMA. The samples were analyzed with RIA for levels of CCK and ghrelin. No difference in cumulative emptying rate (time to return to baseline) or in half emptying time was detected, however, the IOG group showed significantly slower reduction of ACSA in the early postfill period as compared to the CNG group. A possible correlation between emptying pattern and plasma levels of ghrelin and cholecystokinin will be discussed.

Salt preference, taste papillae, PROP response, BMI and ethnicity. M. LESHEM. *Psychology Department, University of Haifa, Haifa, Israel 31905.*

We are examining the relationship of salt preference to taste responses, the density of tongue taste papillae PROP response and BMI in a veteran Israeli sample and a sample of recent Ethiopian immigrants. The initial findings will be presented.

The effect of a glycomacropeptide caffeine combination on energy consumption and satiety parameters. S. PEIKIN, A. BAKAL and R. PORTMAN. *Department of Medicine-Gastroenterology, Robert Wood Johnson Medical School, Camden, NJ 08103, USA.*

Cholecystokinin (CCK), an important satiety signal in humans, is released from the small intestine by various nutritional agents including protein and long chain fatty acids. We previously demonstrated that a pre-meal beverage (Satiatrol, PacificHealth Labs) containing various nutritional ingredients including whey protein enriched with glycomacropeptide, oleic acid, calcium and specific fibers reduced hunger over time in overweight females. The glycomacropeptide from whey has been shown in rats to be a more potent CCK releaser than whole whey protein. AIM: To evaluate the effect of the combination of glycomacropeptide and caffeine in 8 oz of Diet Snapple on calorie consumption and satiety in overweight females. METHODS: Twenty female subjects (mean BMI = 28, mean age = 36.5 years, mean weight = 167 lbs.) were randomized in a double blind crossover design. On separate days subjects ingested the glycomacropeptide-caffeine combination (GC) or a maltodextrin control beverage (CB) matched for flavor, volume and energy 15 minutes before they were provided with an open-ended pasta meal. Subjects were instructed to consume as much food as they wished over 25 minutes. Energy consumption was calculated for both treatment groups. Following the meal, subjects rated hunger and fullness on visual analog scales every 30 minutes for three hours. RESULTS: Subjects receiving GC consumed 12.8 % fewer calories ($p < 0.05$) compared to CB (537 calories vs. 617 calories) At 180 minutes hunger ratings following GC were significantly lower. CONCLUSIONS: These results indicate that GC reduces energy consumption in overweight women. GC may be a useful adjunct to a weight management program.

Hyperglycemia: effect on hormonal release, heart rate variability and food intake in Humans. K. L. TEFF, M. PETROVA and R. R. TOWNSEND. *Monell Chemical Senses Center and the University of Pennsylvania.*

The objectives of the present study were to determine how prolonged elevations in blood glucose influence 48-h cardiac 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 were taken every 2 hours. Heart rate variability using a Holter Monitor was monitored continuously over the 48-h period. Food intake was also measured during this period. 3-h after the infusion, subjects ingested a mixed nutrient meal (600 kcal) and blood samples taken. Mean 48-h glucose levels were 98 ± 6.4 mg/dL, saline compared with 113.5 ± 5.5 mg/dL, glucose ($P < 0.0001$). Mean insulin levels were 28.5 ± 5.7 μ U/mL, saline compared with 57.3 ± 10 μ U/mL, glucose ($P < 0.0001$). 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 heart rate (61 ± 10 bpm, saline vs. 67 ± 7 bpm, glucose) and systolic blood pressure (107.5 ± 10.5 mmHg, saline vs. 113.9 ± 13.2 mmHg glucose, $p < 0.02$) on the second day of hyperglycemia. An increase in early phase insulin was observed following the glucose infusion (63.3 ± 46.4 μ U/ml/10min) compared to saline (39.0 ± 29.5 μ U/mL/10 min, $p < 0.05$). Post-prandial insulin was decreased following glucose infusion (5501.6 ± 1871 μ U/mL, glucose vs. 845.5 ± 4170 μ U/mL, saline, $p < 0.03$). No significant differences in food intake were observed during the two treatments. These data suggest that relatively mild, short term increases in blood glucose can influence cardiac activity, glucose disposition and hormonal responses following nutrient ingestion.

Hypothalamic injection of targeted toxin for CCK receptive neurons leads to increased 24 hour food intake and weight gain. J. ZHANG, R. SPETH, S. SIMASKO and R. C. RITTER. *Programs in Neuroscience and Department of V.C.A.P.P., Washington State University, Pullman, WA 99164-6520, USA.*

Peptides conjugated to the ribosomal toxin, saporin, bind to their specific G-protein coupled receptors, and are internalized. Once internalized, saporin inactivates ribosomes, selectively killing the receptive cells. We are using CCK-saporin to selectively destroy CCK receptive neurons that may participate in the control of food intake and body weight. We have demonstrated that CCK saporin binds to pancreatic CCK-A receptors ($IC_{50} \sim 10$ nM), and evokes an increase in cytosolic Ca^{++} , which is blocked by the CCK-A receptor antagonist, lorglumide in nodose ganglion cells. Thus CCK-saporin has properties characteristic of a targeted toxin of CCK-receptive neurons. We injected CCK-saporin (138 nM in 500 nl) bilaterally into the ventromedial hypothalamus, where CCK-A and -B receptors are expressed. CCK-saporin did not change 24 h chow intake or weight gain. However, when rats were fed high fat diet, CCK-saporin treated rats increased their 24h food intake and gained nearly twice the weight of control rats during 14 days on this diet. Following an overnight fast CCK-saporin injected rats ate significantly more high fat diet than controls during the first 30 min after return of food. Nonetheless, both the CCK-saporin injected rats and controls reduced their food intake in response to intraperitoneal CCK-8. Our results suggest that ventromedial hypothalamic CCK receptors participate in control of 24 h food intake and body weight gain. Our results also suggest that CCK-saporin, will be valuable for investigating the participation of discrete populations of CCK-sensitive neurons in the control of food intake and body weight. [Supported by: NINDS grant NS 20561]

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SOCIETY INFORMATION AND MEMBERSHIP

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 writing to the Central Office (address below).

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SUMMARY SCHEDULE

Tuesday July 15

Hotel Schimmelpenninckhuys, Oosterstraat 53, Groningen

13:00 - 17:00 Pre-Registration in the Empire Room

13:00 - 15:00 LPRC Meeting in the Orangerie

15:00 - 17:00 Board Meeting in the Orangerie

Academiegebouw, University Building, Broerstraat Groningen

18:30 - 19:30 Welcoming reception

Wednesday July 16

Biological Center, Haren

Registration desk open 8:00 - 14:00

8:45 - 9:00 Opening by Joe Vasselli

9:00 - 10:30 Session 1: Learning and memory; Session 2: Central peptides

11:00 - 12:00 Keynote lecture Angelo Tremblay

12:00 - 12:45 Lunch

12:45 - 13:30 Poster Session A

13:30 - 15:00 New Investigators Symposium

15:30 - 17:30 Session 3: Environmental & social influences; Symposium 1: Peripheral peptides & eating disorders

19:00 - 20:00 Women's Forum (*Schimmelpenninckhuys*)

Thursday July 17

Biological Center, Haren

Registration desk open 8:00 - 14:00

8:30 - 10:30 Session 4: Food components and properties; Symposium 2: Behavioral Genetics

11:00 - 12:00 Keynote lecture Paul Rozin

12:00 - 13:00 Business Meeting

13:00 - 14:00 Lunch

14:00 - 15:30 Session 5: Glucose sensing, from receptor to behavior; Session 6: Monoamines

Friday, July 18

Biological Center, Haren

Registration desk open 8:00 - 14:00

8:30 - 10:30 Session 7: Gut peptides; Symposium 3: Brain mechanism on recognition of amino acid intake

11:00 - 12:00 Keynote lecture Gareth Williams

12:00 - 12:45 Lunch

12:45 - 13:30 Poster Session B

13:30 - 15:30 Session 8: Peripheral signals, nutrients and energy balance; Symposium 4: Palatability and energy density and appetite in humans

16:00 - 17:30 Award lectures: Linda Rinaman and Stylianos Nicolaidis

Hotel Schimmelpenninckhuys, Groningen

18:30 - 01:00 Gala Dinner

Saturday, July 19

Biological Center, Haren

Registration desk open 9:00 - 12:00

9:00 - 10:30 Session 9: Salt and water balance

Session 10: Eating disorders / Gender differences

11:00 - 12:00 Keynote lecture Michael McKinley

12:00 - 12:45 Lunch

12:45 - 13:30 Poster Session C

13:30 - 15:30 Session 11: Metabolic controls; Symposium 5: Food intake in the face of plenty

15:30 - 16:00 Apéro

16:00 - 17:30 Steffens symposium

Next SSIB Meeting

**July 20-24, 2004
Marriott Hotel
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