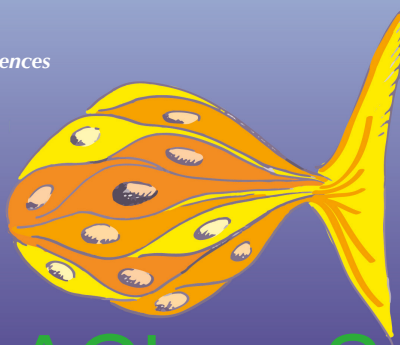




**AChemS**

*Association for Chemoreception Sciences*



**AChemS  
XXXVIII**

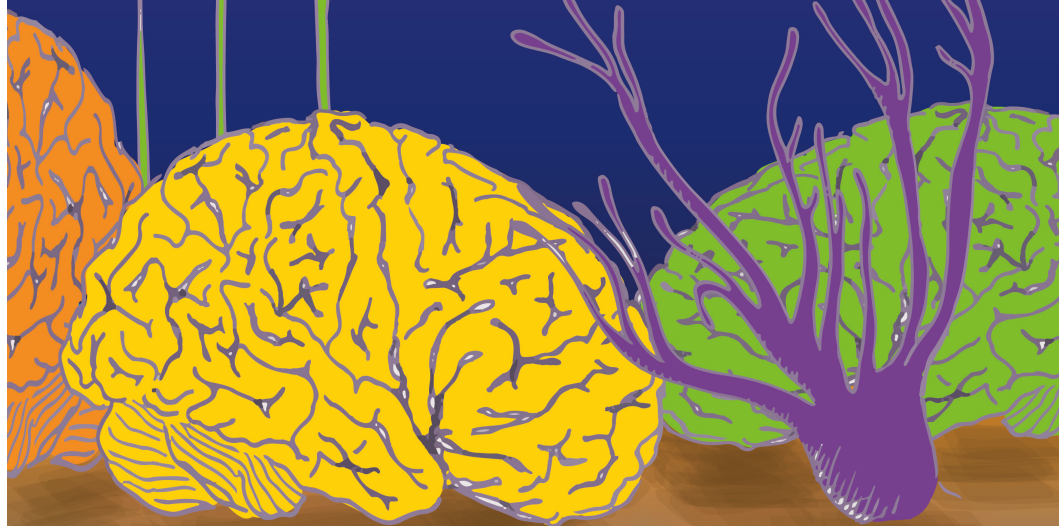
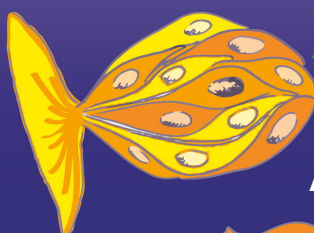
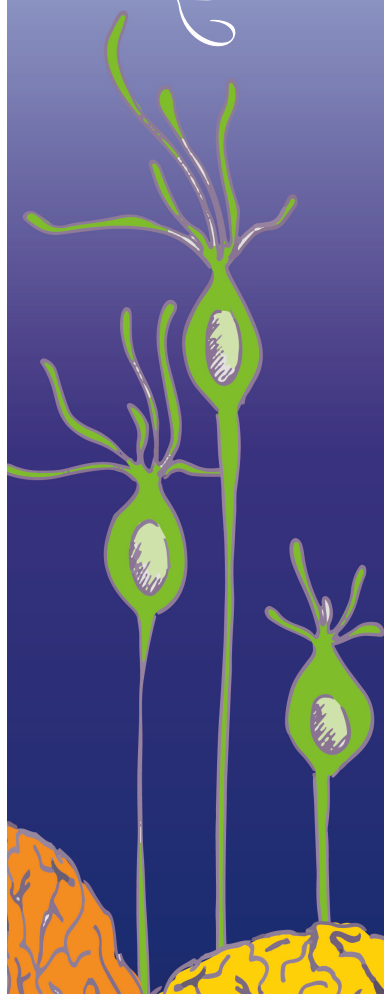
38th Annual Meeting

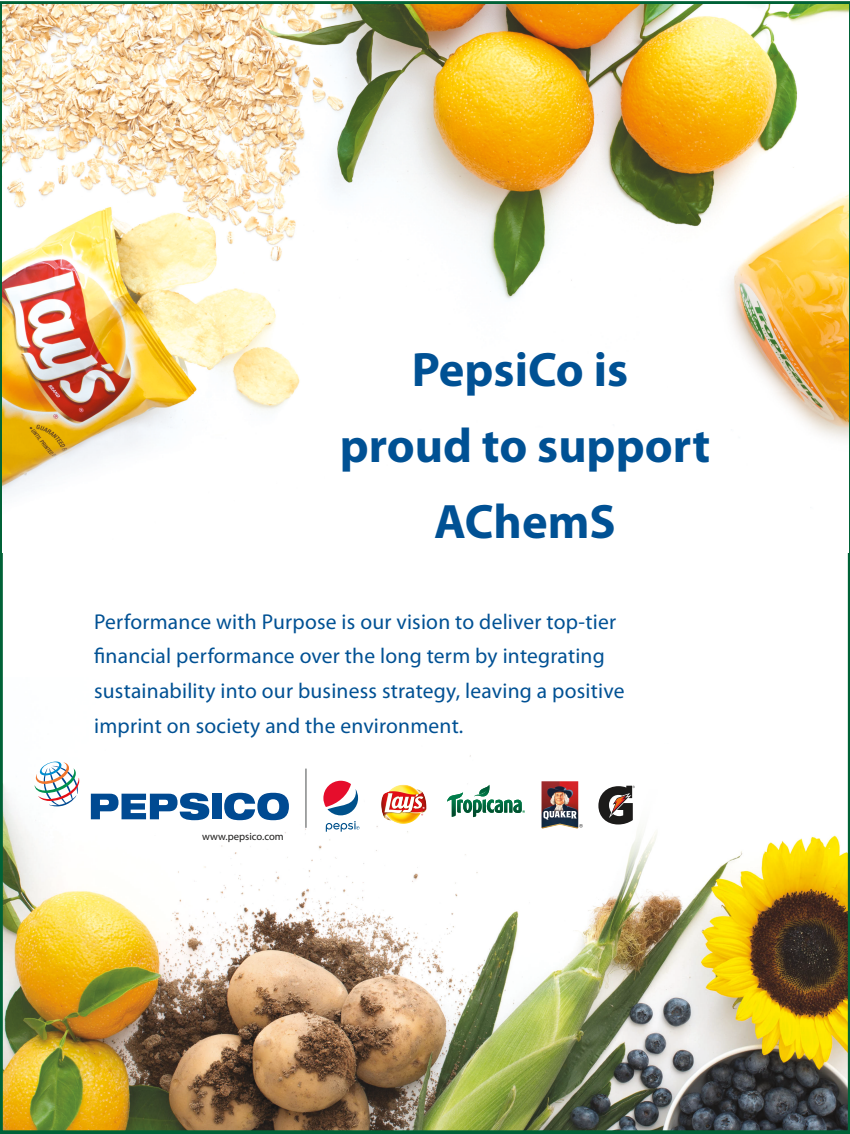
**April 20–23, 2016**

Hyatt Regency  
Coconut Point

Bonita Springs, FL

**PROGRAM**





## **PepsiCo is proud to support AChemS**

Performance with Purpose is our vision to deliver top-tier financial performance over the long term by integrating sustainability into our business strategy, leaving a positive imprint on society and the environment.



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pepsi.







ACChemS extends special thanks and appreciation for grant support from:

**The National Institute on Deafness and  
Other Communications Disorders**

and the **National Institute on Aging, NIH**

---

A special thank you to **The Polak Foundation, Ghislaine Polak** and the late **Ernest Polak** for supporting the **Polak Young Investigators Awards** and the **Polak Postdoctoral Travel Awards**.



2015 Polak Young Investigator Award Recipients

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## MEETING EVALUATION

The meeting evaluation is available online. Please visit [www.achems.org](http://www.achems.org) to give us your feedback on the meeting. Your input helps AChemS' leadership continue to offer quality Annual Meetings and member services.

# 2016 SPECIAL & SOCIAL EVENTS

WEDNESDAY, APRIL 20, 2016

9 am – Noon

## **Special Event** **Community Outreach Event**

AChemS is pleased to partner for the second year with Franklin Park Elementary School! Volunteer AChemS Members will be inspiring over one hundred 3rd and 4th graders from Franklin Park Elementary, one of the most socio-economically challenged schools in Lee County. The fun and interactive demonstrations will illustrate various taste and smell topics. The event will be held at the school this year. Not only does AChemS have the good fortune to forge a community connection again, and enlighten and inspire a new generation of chemosensory scientists, engaging with students at this school ties in perfectly with the diversity goals of our NIDCD grant.

SPECIAL EVENTS

6 – 7 pm



**Givaudan**

## **Special Event** **Givaudan Lecture** **Ann Griffen, DDS, MS** **The Human Oral Microbiome**

*Calusa Ballroom 1*

New and powerful technologies have driven rapid advances in understanding the human microbiome. We'll overview these and then take a deeper look at the oral microbiome. Oral communities show high fidelity to their niche, dysbiosis leading to disease is common, and the natural history of their acquisition is being elucidated.

7 – 9 pm

## **Social Event** **AChemS Welcome Banquet**

*Waterfall Pool Deck (Ticketed event)*

*\*Inclement weather backup: Calusa Ballroom and Foyer*

Join us for the traditional AChemS Welcome Banquet, the first opportunity to reconnect with colleagues and kick the meeting off right! Cash bar is available. An RSVP was required at time of registration and your ticket is available in your name badge; additional tickets can be purchased at the Registration Desk.

# 2016 SPECIAL & SOCIAL EVENTS

## SPECIAL EVENTS

9 – 11 pm

### **Social Event** **Graduate Student Happy Hour**

*Mangroves Patio*

A relaxed, casual gathering and opportunity to mingle with other graduate students over a cocktail! The patio of Mangroves will be the exclusive gathering spot for this event. Cash bar.

**THURSDAY, APRIL 21, 2016**

7:30 – 9 am

### **Special Event** **2016 Industry Breakfast Corners**

*Estero Terrace*

Open to Everyone!



#### **PepsiCo**

PepsiCo's Breakfast Corner will feature a variety of products for you to try. While you are sipping and munching meet the team from Biological and Discovery Analytics including Senior Director Mark Pirner, MD, PhD, Director Steve Gravina, PhD, Director Linda Flammer, PhD, and Principal Scientist Laura Nattress, PhD. We're happy to discuss our career journeys and how we arrived at PepsiCo. Or if you are curious as to what it is like to work in industry, we can share our perspectives. Perhaps you have a potential research collaboration idea. Stop by, we promise it will be fun.



#### **Kerry Foods**

Please stop by the Kerry Breakfast Corner where the science of taste merges with the science of nutrition. Slide up to our table to sample the latest in food and beverage trends. Plus, our team is happy to share what Kerry's focus on Taste & Nutrition means to them. Learn what it's like to be a part of a company strong in food heritage, global insights, marketplace knowledge, and culinary and applications expertise. Take a journey into our world: Making food and beverage products that people enjoy and feel better about. We call this Leading to Better.

(Breakfast Corners continued next page)



# 2016 SPECIAL & SOCIAL EVENTS

(Breakfast Corners continued)



## INTERNATIONAL FLAVORS & FRAGRANCES INC.

International Flavors & Fragrances Inc. (NYSE:IFF) is a leading global creator of flavors and fragrances used in a wide variety of consumer products. Consumers experience these unique scents and tastes in fine fragrances and beauty care, detergents and household goods, as well as beverages, sweet goods and food products. The Company leverages its competitive advantages of consumer insight, research and development, creative expertise, and customer intimacy to provide customers with innovative and differentiated product offerings. A member of the S&P 500 Index, IFF has more than 6,200 employees working in 32 countries worldwide. For more information, please visit our website at [www.iff.com](http://www.iff.com).

SPECIAL EVENTS

5 – 7 pm

### Special Event

#### **The Barry Davis Workshop: Funding Opportunities For The New Investigator**

**Susan Sullivan, National Institute on Deafness and  
Other Communication Disorders (NIDCD)**

*Calusa Ballroom 2*

This workshop will include an overview of research, training, and funding opportunities for graduate students, postdoctoral fellows, and early stage investigators. The discussion will provide practical information on how grant applications are processed within NIH/NIDCD, including Institute and study section assignments, the peer review process, Advisory Council activities, pay lines, and the roles of program and review staff.



# 2016 SPECIAL & SOCIAL EVENTS

## SPECIAL EVENTS

**FRIDAY, APRIL 22, 2016**

12:30 – 1:30 pm

**Special Event**  
**AChemS Business Meeting**

*Calusa Ballroom 1*

Get involved! Join us for reports from the society leaders on the state of the Association. All members welcome and encouraged to attend.

2 – 5 pm

**Social Event**  
**Taste vs. Smell Softball Game**

*Hammond Stadium/Century Link Sports Complex*

The tradition returns! Grab your glove and carpool over to the Hammond Stadium (the advanced A Affiliate of the Minnesota Twins!) for a little friendly competition. No pre-registration is required; carpool sign up is available at Registration. Bats and balls will be provided. Be sure to bring water!



# 2016 SPECIAL & SOCIAL EVENTS

4 – 5 pm

## Special Event

### The AChemS Journal Club

Charlotte Mistretta, Archives Committee Chair

*Calusa 1*

Inaugural Event from the Archives Committee for an Annual Event to Present

### Historical Contexts for Current

### Chemosensory Research

### *Studying the Peripheral Taste Neuron: Then and Now*

To celebrate the **75th Anniversary** of Carl Pfaffmann's paper: 'Gustatory afferent impulses' *J. Cellular and Comparative Physiology* 17(2): 243-258.1941. And, coming to the present with discussion of current technical approaches to record from geniculate ganglion neurons, papers to include: Barretto et al, "The neural representation of taste quality at the periphery," *Nature* 2014; and Wu et al, "Breadth of tuning in taste afferent neurons varies with stimulus strength," *Nature Communications* 2015.

*How has the chemosensory field asked questions about, listened to, and analyzed single and ensemble peripheral taste neuron data over 75 years?*

Junior and senior members of the AChemS community will present and discuss the papers. All are encouraged to attend.

Moderators: C.M. Mistretta, University of Michigan, and D.L. Hill, University of Virginia.

Presenting and summarizing papers: Rolf Skyberg, PhD Candidate, University of Virginia, and John D. Boughter, PhD, University of Tennessee Health Science Center.

Copies of reading materials will be available at the Registration Desk.

SPECIAL EVENTS

# 2016 SPECIAL & SOCIAL EVENTS

## SPECIAL EVENTS

5 – 6:30 pm

### Social Event

#### **AChemS Career Networking Social**

*Estero Foyer and Terrace*

The social is designed for all student and post doc attendees. The AChemS Career Networking Social is designed for networking and discussion about topics and issues important to junior chemosensory scientists.

*Back by Popular Demand:* Topic Tables will be featured again this year at the social. This year's topics will include Funding, Industry Research Careers, Post-Doc Experience, Interviewing Tips, Careers in Science for Minorities and more. New this year! The social will flow between the terrace and the foyer for those who wish to remain out of the sun!

7 – 9 pm

### Special Event

#### **President's Symposium**

*Calusa 1*

This year's President's Symposium has a new twist! The Symposium will feature presentations from the four major AChemS merit awardees. It is designed to showcase some of the most important work being done in the Chemosensory Sciences. Don't miss it!

#### **2016 Awardees**

John Hayes, *Barry Jacobs Memorial Award for Research in Human Taste and Smell*

John McGann, *AChemS Young Investigator Award for Research in Olfaction*

Stephen Wooding, *Ajinomoto Award for Young Investigators in Gustation*

Harriet Baker, *Max Mozell Award for Outstanding Achievement in the Chemical Senses*



# 2016 SPECIAL & SOCIAL EVENTS

SATURDAY, APRIL 23, 2016

4 – 5 pm



## Special Event

### Christophe Laudamiel, Master Perfumer Sometimes You Feel It, Sometimes You Don't

*Calusa Ballroom 1*

Join us for an exciting presentation from Master Perfumer Christophe Laudamiel. Mr. Laudamiel will discuss the frontstage and backstage of olfactory art and the scientific effects explored — or perhaps to be explored — related to this discipline still in its infancy. In an interactive presentation, he will demonstrate what outside sniffers and viewers have a hard time exploring within the mysterious metier of a perfume composer, in addition to presenting concepts explored in his numerous installations around the world. Bring your nose and your brain — the rest of the materials will be provided!

SPECIAL EVENTS



# COMMITTEES

## COMMITTEES

### ACHEMS EXECUTIVE COMMITTEE 2015-2016

President	Susan Travers, PhD	The Ohio State University
Past President	Debra Ann Fadool, PhD	Florida State University
Senior Advisor	John Glendinning, PhD	Barnard College, Columbia University
President Elect	Steven Munger, PhD	University of Florida
Secretary	John Boughter, PhD	University of Tennessee
Membership Chair	Pamela Dalton, PhD	Monell Chemical Senses Center
Program Chair	Julie Mennella, PhD	Monell Chemical Senses Center
Treasurer	Joel Mainland, PhD	Monell Chemical Senses Center
Program Chair Elect	Linda Barlow, PhD	University of Colorado
Sr. Councilor	C. Shawn Dotson, PhD	University of Florida
Jr. Councilor	Theresa White, PhD	LeMoyne College

### ACHEMS PROGRAM COMMITTEE 2015-2016

Julie Mennella, PhD, <i>Chair</i>	Thomas Hummel, PhD
Dana Small, PhD, <i>Past Chair</i>	Maria Larsson, PhD
Linda Barlow, PhD, <i>Incoming Chair</i>	Joel Mainland, PhD
Sanne Boesveldt, PhD	Clare Mathes, PhD
Christine Byrd-Jacobs, PhD	Kathryn Medler, PhD
Yehuda Ben-Shahar, PhD	Wolfgang Meyerhof, PhD
Earl Carstens, PhD	Charlotte Mistretta, PhD, <i>Archives Committee Chair</i>
Kevin Daly, PhD	Arundhati Ray, PhD
Robin Dando, PhD, <i>Mentoring Committee Chair</i>	Diego Restrepo, PhD, <i>Grants Committee Chair</i>
C. Shawn Dotson, PhD, <i>Councilor</i>	Chris Simons, PhD, <i>Industry Liaison Committee Chair</i>
Valerie Duffy, PhD, RD, <i>Clinical Relations Committee Chair</i>	Marc Spehr, PhD
Alfredo Fontanini, PhD	Justus Verhagen, PhD
Jay Gottfried, PhD	Daniel Wesson, PhD
Charles Greer, PhD	
Liquan Huang, PhD	

# COMMITTEE CHAIRS

## ACHEMS STANDING COMMITTEE CHAIRS

*Bylaws Committee:* Susan Travers, PhD

*Diversity Committee:* Barbara Zielinski, PhD

*Elections Committee:* Deborah Fadool, PhD

*Finance Committee:* Joel Mainland, PhD

*International Committee on Olfaction and Taste:* Charles Greer, PhD

*Industry Liaison Committee:* Christopher Simons, PhD

*Mentoring/Networking Committee:* Robin Dando, PhD

*Public Information and Affairs:* John Boughter, PhD

COMMITTEES

## ACHEMS AD HOC COMMITTEE CHAIRS:

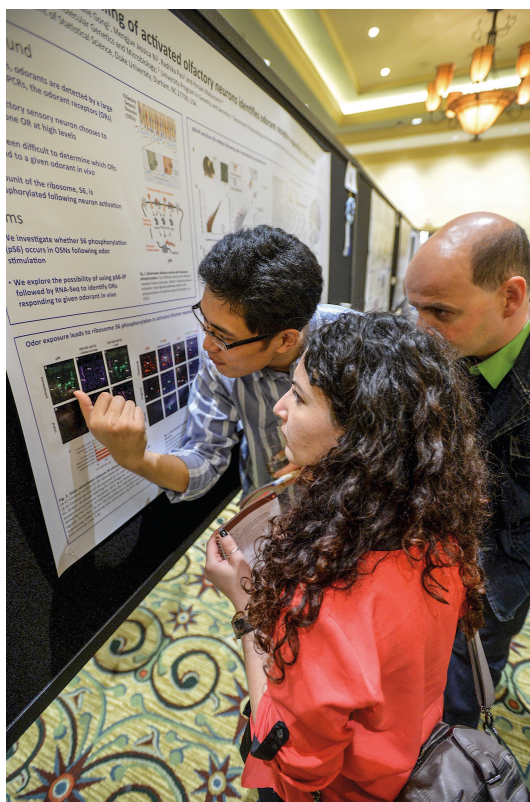
*Archives Committee:* Charlotte Mistretta, PhD

*Awards Committee:* Steven Munger, PhD

*Clinical Relations:* Valerie Duffy, PhD, RD

*Grants Committee:* Diego Restrepo, PhD

*Long Range Planning Committee:* Tim McClintock, PhD and Minghong Ma, PhD



# 2016 AWARD RECIPIENTS

## AWARDS

### **38th Annual Givaudan Lectureship**

**Ann Griffen, DDS, MS**, The Ohio State University

### **Max Mozell Award for Outstanding Achievement in the Chemical Senses**

**Harriett Baker, PhD**, Research Professor, Laboratory of Molecular Neurobiology, Weill Cornell Medical College, Burke Medical Research Institute

### **22nd Annual Ajinomoto Award for Young Investigators in Gustation**

**Stephen Wooding, PhD**, Assistant Professor, Health Sciences Research Institute, University of California, Merced

### **25th Annual Barry Jacobs Memorial Award for Research in Psychophysics of Human Taste and Smell (formerly Moskowitz Jacobs)**

**John Hayes, PhD**, Associate Professor of Food Science, Director, Sensory Evaluation Center, Pennsylvania State University

### **The AChemS Young Investigator Award for Research in Olfaction**

**John McGann, PhD**, Associate Professor of Behavioral and Systems Neuroscience, Psychology Department, Rutgers University

### **The Don Tucker Memorial Award Recipient (2015 Awardee)**

**Lindsey Czarnecki**, Psychology Department: Behavioral and Systems Neuroscience Rutgers University

### **Polak Foundation Awards**

*The Polak Foundation Awards are funded by the Elsje Werner-Polak Memorial Fund in memory of our niece gassed by the Nazis in 1944 at age 7: Ghislaine Polak and the late Ernest Polak*

### **Polak Young Investigator Award Recipients**

**Diego Bohorquez, PhD**, Duke University

**Laura Duvall, PhD**, The Rockefeller University

**Tao Huang, PhD**, University of Louisville Medical School

**Emilia Iannilli, PhD**, Dresden University of Technology

**Veronika Schopf, PhD**, University of Graz

**Nandakumar Venkatesan, PhD**, University of Georgia

### **Polak Postdoctoral Travel Award Recipients**

**Jasper de Groot, PhD**, University of Utrecht, the Netherlands

**Shaina Short, PhD**, University of Utah

**Archana Kumari, PhD**, University of Michigan

**Marie Elisabeth Jette, PhD**, University of Colorado

**Joshua Sammons, PhD**, State University of New York at Binghamton



# 2016 AWARD RECIPIENTS

## AChemS Travel Fellowships for Diversity Award Recipients

*Funded by a generous grant from the National Institute on Deafness and Other Communication Disorders and the National Institute on Aging, NIH*

**Genevieve Bell**, Florida State University

**Naima Dahir**, Utah State University

**Jennifer Douglas**, Monell Chemical Senses Center and University of Pennsylvania

**Veronica Flores**, Brandeis University

**Andrew Moran**, University of Utah

**Thomas Myers**, Eastern Michigan University

**Jennifer Rios-Pilier**, University of Louisville

## AChemS Student Housing and Travel Award Recipients

*Funded by the Polak Foundation: Ghislaine Polak and the late Ernest Polak*

Murtaza Bharmal

Mary Burke

Annachiara Cavazzana

Cinzia Cecchetto

Yfke de Vries

Michael Dryden

Olga Escanilla

William Heaton

Franziska Herrmann

Liang-Dar Hwang

Kentaro Ikegami

Joel Johnstun

Marley Kass

Andrew Kaufman

Albert Kim

Laura Lefevre

Yan Liu

Louis Martin

Allison Matia

Sneha Mokashi

Corinna Noel

Katherine Pendergast

Daphnee Poupon-  
Pourchot

Jacob Price

Lisa Qu

Stefanie Raab

Megan Randolph

Johanna Reichert

Andrew Riquier

Nora Rochor

Longzhi Tan

Tao Tang

Olga Wudarczyk

## Logo Contest Award Recipient

**Courtney Wilson**, University of Colorado



# PROGRAM AT A GLANCE

## PROGRAM

### WEDNESDAY, APRIL 20, 2016

9 am – Noon	<b>COMMUNITY OUTREACH EVENT</b> <i>Franklin Park Elementary School</i>
11:30 am – 3:30 pm	<b>ACHEMS EXECUTIVE COMMITTEE MEETING</b>
3:30 – 7 pm	<b>REGISTRATION</b> <i>Calusa Ballroom Foyer</i>
5 – 6 pm	<b>WELCOME/AWARDS CEREMONY</b> <i>Calusa Ballroom 1</i> Chair/Organizer: Steve Munger
6 – 7 pm	<b>GIVAUDAN LECTURE</b> <b>The Human Oral Microbiome</b> Ann Griffen, DDS, MS Introduction: Jay Slack Chair/Organizer: Julie Mennella Exclusively sponsored by:  <i>Calusa Ballroom 1</i>
7 – 9 pm	<b>WELCOME BANQUET</b> <i>Waterfall Pool Deck (Ticketed event)</i> <i>Inclement weather backup: Calusa Ballroom and Foyer</i>
9 – 11 pm	<b>GRADUATE STUDENT HAPPY HOUR</b> <i>Mangroves Bar (Patio)</i>

### THURSDAY, APRIL 21, 2016

7:30 am – 12:30 pm	<b>REGISTRATION</b>
7:30 – 8:30 pm	<i>Calusa Ballroom Foyer</i>
7:30 – 9 am	<b>CONTINENTAL BREAKFAST</b> <i>Estero Ballroom Foyer</i>
7:30 – 9 am	<b>BREAKFAST CORNERS WITH INDUSTRY</b> <i>Estero Terrace</i>
8 – 10:30 am	<b>POSTER SESSION I</b> <i>Estero Ballroom</i>

**Please Note:** *Filming and photographing presentations (oral and poster) is prohibited unless the presenting author has granted permission.*

# PROGRAM AT A GLANCE

## THURSDAY, CONTINUED

10:30 am – 12:30 pm	<b>SYMPOSIUM</b> <b>Olfactory Dysfunction in Traumatic Brain Injury</b> Chair/Organizer: Diego Restrepo <i>Calusa Ballroom 1</i>
10:30 am – 12:30 pm	<b>SYMPOSIUM</b> <b>Deconstructing Food</b> Chair/Organizer: Joel Mainland <i>Calusa Ballroom 2</i>
12:30 – 1:30 pm	<b>LONG RANGE PLANNING COMMITTEE MEETING</b> <i>Great Egret Room</i>
1 – 3 pm	<b>CLINICAL SYMPOSIUM</b> <b>Anosmia - The Patient, The Clinic, The Cure?</b> Chairs/Organizers: Valerie Duffy and Sanne Boesveldt <i>Calusa Ballroom 1</i>
3 – 5 pm	<b>ORAL SESSION I</b> Moderator: Steve Munger <i>Calusa Ballroom 1</i>
3 – 5 pm	<b>ORAL SESSION II</b> Moderator: Sue Kinnamon <i>Calusa Ballroom 2</i>
5 – 7 pm	<b>THE BARRY DAVIS FUNDING WORKSHOP</b> Chair/Organizer: Susan Sullivan <i>Calusa Ballroom 2</i>
8 – 10:30 pm	<b>POSTER SESSION II</b> <i>Estero Ballroom</i>

## FRIDAY, APRIL 22, 2016


7:30 am – 12:30 pm	<b>REGISTRATION</b> <i>Calusa Ballroom Foyer</i>
6:30 – 7:30 pm	
7:30 – 9 am	<b>CONTINENTAL BREAKFAST</b> <i>Estero Ballroom Foyer</i>
8 – 10:30 am	<b>POSTER SESSION III</b> <i>Estero Ballroom</i>

**Please Note:** *Filming and photographing presentations (oral and poster) is prohibited unless the presenting author has granted permission.*

# PROGRAM AT A GLANCE

## PROGRAM

### FRIDAY, CONTINUED

- 10:30 am – 12:30 pm **SYMPOSIUM**  
**Chemosensory Processing in Amygdala Subnuclei: Substrates for Affective Decisions?**  
 Chair/Organizer: Michael Meredith  
*Calusa Ballroom 1*
- 10:30 am – 12:30 pm **SYMPOSIUM**  
**Structural Insights Into Chemosensory Receptors**  
 Chairs/Organizers: Simone Weyand and Wolfgang Meyerhof
- Exclusively sponsored by:  **PEPSICO**  
*Calusa Ballroom 2*
- 12:30 – 1:30 pm **ACHEMS BUSINESS MEETING**  
*Calusa Ballroom 1*
- 2 – 5 pm **ACHEMS TASTE VS. SMELL SOFTBALL GAME**  
*Hammond Stadium (offsite)*
- 4 – 5 pm **JOURNAL CLUB**  
 Chair/Organizer: Charlotte Mistretta  
*Calusa Ballroom 1*
- 5– 6:30 pm **ACHEMS CAREER NETWORKING SOCIAL**  
 Chair/Organizer: Robin Dando  
*Estero Ballroom Foyer and Terrace*
- 7 – 9 pm **PRESIDENTIAL SYMPOSIUM**  
**AWARDEE LECTURES**  
 Chair/Organizer: Susan Travers  
*Calusa Ballroom 1*

### SATURDAY, APRIL 23, 2016

- 7:30 am – 12:30 pm **REGISTRATION**  
 5:30 – 6:30 pm *Calusa Ballroom Foyer*
- 7:30 – 9 am **CONTINENTAL BREAKFAST**  
*Estero Ballroom Foyer*
- 8 – 10:30 am **POSTER SESSION IV**  
*Estero Ballroom*

**Please Note:** *Filming and photographing presentations (oral and poster) is prohibited unless the presenting author has granted permission.*



# PROGRAM AT A GLANCE

## SATURDAY, CONTINUED

- 10:30 am – 12:30 pm      **ORAL PRESENTATIONS**  
**Polak Young Investigator Awardees**  
Chair/Organizer: Linda Barlow  
*Calusa Ballroom 1*
- 2 – 4 pm      **INDUSTRY SYMPOSIUM**  
**Chemosensory Model Systems**  
Chair/Organizer: Chris Simons  
*Calusa Ballroom 1*
- 4 – 5 pm      **SPECIAL LECTURE**  
**Sometimes You Feel It, Sometimes You Don't**  
Christophe Laudemiel  
Chair/Organizer: Julie Mennella  
*Calusa Ballroom 1*
- 6 – 8 pm      **SYMPOSIUM**  
**Predicting Olfactory Perception**  
Chair/Organizer: Leslie VossHall  
*Calusa Ballroom 1*
- 6 – 8 pm      **SYMPOSIUM**  
**A Modern Take on CNS Gustatory Processing: From Primary Nerve Input to the Driving of Consumption Decisions**  
Chair/Organizer: Don Katz  
*Calusa Ballroom 2*
- 8 – 10:30 pm      **POSTER SESSION V**  
*Estero Ballroom*



**Please Note:** Filming and photographing presentations (oral and poster) is prohibited unless the presenting author has granted permission.

# PROGRAM IN DETAIL

## WEDNESDAY, APRIL 20, 2016

### WEDNESDAY

9 am – Noon		<b>COMMUNITY OUTREACH EVENT</b> <i>Franklin Park Elementary School</i> <i>2323 Ford St, Fort Myers, FL 33916</i>
11:30 am – 3:30 pm		<b>ACHEMS EXECUTIVE COMMITTEE MEETING</b>
3:30 – 7 pm		<b>REGISTRATION</b> <i>Calusa Ballroom Foyer</i>
5 – 6 pm		<b>WELCOME/AWARDS CEREMONY</b> Chair/Organizer: Steve Munger <i>Calusa Ballroom 1</i>
6 – 7 pm	#O1	<b>GIVAUDAN LECTURE:</b> <b>The Human Oral Microbiome</b> Ann Griffen, DDS, MS Introduction: Jay Slack Chair/Organizer: Julie Mennella  Exclusively sponsored by: <b>Givaudan<sup>®</sup></b> <i>Calusa Ballroom 1</i>
7 – 9 pm		<b>WELCOME BANQUET</b> <i>Waterfall Pool Deck (Ticketed event)</i> <i>Inclement weather backup: Calusa Ballroom and Foyer</i>
9 – 11 pm		<b>GRADUATE STUDENT HAPPY HOUR</b> <i>Mangroves Bar (Patio)</i>



# PROGRAM IN DETAIL

## THURSDAY, APRIL 21, 2016

7:30 am – 12:30 pm

### REGISTRATION

7:30 – 8:30 pm

*Calusa Ballroom Foyer*

7:30 – 9 am

### CONTINENTAL BREAKFAST

*Estero Ballroom Foyer*

7:30 – 9 am

### BREAKFAST CORNERS WITH INDUSTRY

*Estero Terrace*

Participating Partners (see page 6 for more information):



THURSDAY



# PROGRAM IN DETAIL POSTER SESSION I

# THURSDAY 8 – 10:30 AM

THURSDAY

8 – 10:30 am

## POSTER SESSION I

*Estero Ballroom*

#P101

### **Functions of the GFL/Ret Signaling Pathway in the Development and Physiology of the Peripheral Taste System**

Christopher R. Donnelly, Charlotte M. Mistretta, Robert M. Bradley, Brian A. Pierchala. *University of Michigan/Biologic and Materials Sciences, Ann Arbor, MI, United States*

#P102

### **A Reduction in Sweet Taste Sensitivity in Pregnant Mice Correlates with Decreased Sweet Receptor Expression**

Ezen Choo<sup>1</sup>, Robin Dando<sup>2</sup>. <sup>1</sup>*Cornell University/ Molecular Medicine, Ithaca, NY, United States*, <sup>2</sup>*Cornell University/ Food Science, Ithaca, NY, United States*

#P103

### **Expression of the TrkB Receptor is Downregulated Before Birth Dividing Taste Neurons into Three Subpopulations**

Jennifer Rios-Pilier, Robin F. Krimm. *University of Louisville/ Anatomical Sciences and Neurobiology, Louisville, KY, United States*

#P104

### **Blocking TrkB-Signaling Decreases TrkB+ Innervation to the Taste Bud Within Two Weeks**

Tao Tang, Robin F. Krimm. *Anatomical Science and NeuroBiology, University of Louisville Medical School, Louisville, KY, United States*

#P105

### **Children and Nonnutritive Sweeteners: From Hedonics to Genes**

Nuala Bobowski, Danielle R. Reed, Peihua Jiang, Phoebe Mathew, Corrine J. Mansfield, Julie A. Mennella. *Monell Chemical Senses Center, Philadelphia, PA, United States*

#P106

### **Accelerated Olfactory Aging in Transgenic Mice Recapitulates Aging Human Olfactory Epithelium**

Kevin Child<sup>1</sup>, Eric Holbrook<sup>2</sup>, James Schwob<sup>3</sup>, Woochan Jang<sup>3</sup>. <sup>1</sup>*Tufts University/Sackler School of Biomedical Sciences, Boston, MA, United States*, <sup>2</sup>*Harvard Medical School/Massachusetts Eye and Ear Infirmary, Boston, MA, United States*, <sup>3</sup>*Tufts University/Department of Developmental, Molecular and Chemical Biology, Boston, MA, United States*

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# PROGRAM IN DETAIL POSTER SESSION I

**THURSDAY  
8 – 10:30 AM**

THURSDAY

- #P107      **Age-related Decline Between Functional Connectivity of the Hippocampus and the Olfactory Network in Resting State fMRI**  
Michael J. Tobia, Qing X. Yang, Prasanna Karunanayaka. *Center for NMR Research, Penn State Hershey Dept. of Radiology, Hershey, PA, United States*
- #P108      **Measured Olfactory Dysfunction for U.S. Adults Aged 40+ Years: Prevalence and Risk Factors Derived from the 2012 National Health and Nutrition Examination Survey (NHANES)**  
Howard J. Hoffman<sup>1</sup>, Shristi Rawal<sup>2</sup>, Chuan-Ming Li<sup>1</sup>, Valerie B. Duffy<sup>3</sup>. <sup>1</sup>NIH/NIDCD, Epidemiology and Statistics Program, Bethesda, MD, United States, <sup>2</sup>NIH/NICHD/DIPHR/EB, Bethesda, MD, United States, <sup>3</sup>University of Connecticut/School of Allied Health, Storrs, CT, United States
- #P109      **Mechanisms of Flavor Loss in Foods and Beverages**  
Hiroko Takeuchi, Takashi Kurahashi. *Graduate School of Frontier Biosciences, Osaka University, Osaka, Japan*
- #P110      **Neural Activity Required at Adulthood for Maintenance of Terminal Fields of Nerves That Transmit Taste Information**  
Rolf Skyberg<sup>1</sup>, Dave Hill<sup>2</sup>. <sup>1</sup>University of Virginia, Charlottesville, VA, United States, <sup>2</sup>University of Virginia, Charlottesville, VA, United States
- #P111      **Chorda Tympani Terminal Fields in Adult Rats are Greatly Diminished Following Neonatal Chorda Tympani Transection**  
Louis J. Martin<sup>1</sup>, Kaeli K. Samson<sup>2</sup>, Amy L. Orand<sup>3</sup>, Suzanne I. Sollars<sup>4</sup>. <sup>1</sup>University of Nebraska at Omaha/Psychology, Omaha, NE, United States, <sup>2</sup>University of Nebraska Medical Center/Department of Biostatistics, Omaha, NE, United States, <sup>3</sup>University of Nebraska at Omaha/Psychology Department, Omaha, NE, United States, <sup>4</sup>University of Nebraska of Omaha/Department of Psychology, Omaha, NE, United States
- #P112      **Microglia Response to Chorda Tympani Transection in Adult and Juvenile Rats**  
Andrew J. Riquier, Suzanne I. Sollars. *University of Nebraska at Omaha, Omaha, NE, United States*

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- #P113 **Over-expression of BDNF in the Mouse Olfactory Bulb does not Increase Adult-born Granule Cell Survival in vivo**  
Brittnee McDole, Crystal Gilkes, Kathleen Guthrie. *Dept. of Biomedical Science, College of Medicine, Florida Atlantic University, Boca Raton, FL, United States*
- #P114 **Cyclophosphamide-induced Loss in the Murine Olfactory Systems**  
Nora Awadallah<sup>1</sup>, Kara Proctor<sup>2</sup>, Eugene Delay<sup>3</sup>, Rona Delay<sup>3</sup>.  
<sup>1</sup>University of Vermont/Undergraduate Neuroscience Program, Burlington, VT, United States, <sup>2</sup>University of Vermont/Nursing, Burlington, VT, United States, <sup>3</sup>University of Vermont/Biology and Chemosensory Group, Burlington, VT, United States
- #P115 **Disruption of Glomerular Targeting after Epithelial Lesion is Receptor Dependent**  
Eric H. Holbrook<sup>1</sup>, Aaron R. Dezube<sup>2</sup>, James E. Schwob<sup>2</sup>. <sup>1</sup>Harvard Medical School/Otolaryngology, Boston, MA, United States, <sup>2</sup>Tufts University School of Medicine/Developmental, Molecular, and Chemical Biology, Boston, MA, United States
- #P116 **Subfunctionalization and Neofunctionalization of Drosophila Odorant Binding Proteins**  
 **Don Tucker Award Finalist** Joel A. Johnstun, Frances S. Haire, Trudy F. Mackay, Robert R. Anholt. *WM Keck Ctr for Behav. Biol, Program in Genetics, and Dept. Biol. Sci, NCSU, Raleigh, NC, United States*
- #P117 **Sensory Physiology and Olfactory Behavior in Drosophila mojavensis**  
Stephanie M. Rollmann<sup>1</sup>, Amber Crowley-Gall<sup>1</sup>, John E. Layne<sup>1</sup>, Priya Date<sup>2</sup>, Clair Han<sup>3</sup>, Peter Andolfatto<sup>3</sup>. <sup>1</sup>University of Cincinnati/Department of Biological Sciences, Cincinnati, OH, United States, <sup>2</sup>Yale University/Department of Genetics, New Haven, CT, United States, <sup>3</sup>Princeton University/Lewis Sigler Institute for Integrative Genomics, Princeton, NJ, United States
- #P118 **Functional Characterization of Differential Alleles Associated with Variation in Drosophila Olfaction**  
 **Don Tucker Award Finalist** Sneha Mokashi, Mary Anna Carbone, Trudy F. Mackay, Robert R. Anholt. *WM Keck Ctr for Behav. Biol., Program in Genetics and Dept. Biol. Sci., NC State Univ, Raleigh, NC, United States*

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- #P119      **Non-classical Amine Recognition Evolved in a Large Clade of Olfactory Receptors**  
Qian Li<sup>1</sup>, Yaw Tachie-Baffour<sup>1</sup>, Zhikai Liu<sup>1</sup>, Maude W. Baldwin<sup>2</sup>, Andrew C. Kruse<sup>3</sup>, Stephen D. Liberles<sup>1</sup>. <sup>1</sup>*Department of Cell Biology, Harvard Medical School, Boston, MA, United States*, <sup>2</sup>*Department of Organismic and Evolutionary Biology, Harvard University, Cambridge, MA, United States*, <sup>3</sup>*Department of BCMP, Harvard Medical School, Boston, MA, United States*
- #P120      **Expression of Candidate Fat Taste Receptors in Human Fungiform Papillae**  
Dongli Liu<sup>1</sup>, Nicholas Archer<sup>2</sup>, Konsta Duesing<sup>2</sup>, Russell Keast<sup>3</sup>. <sup>1</sup>*School of Exercise and Nutrition Sciences, Deakin University CSIRO, Food & Nutrition, Sydney, Australia*, <sup>2</sup>*CSIRO Food & Nutrition, Sydney, Australia*, <sup>3</sup>*School of Exercise and Nutrition Sciences, Deakin University, Melbourne, Australia*
- #P121      **Taste Cell Responses to Medium Chain Saturated Fatty Acids are Mediated by GPR84**  
Yan Liu, Timothy A. Gilbertson. *Department of Biology, Utah State University, Logan, UT, United States*
- #P122      **β-Estradiol Modulates Responses to Fatty Acids and Saccharin in a Clonal Taste Cell Line**  
Naima S. Dahir, Dane R. Hansen, Timothy A. Gilbertson. *Utah State University/Department of Biology, Logan, UT, United States*
- #P123      **Of Mice and Light**  
Courtney E. Wilson, Sue C. Kinnamon. *University of Colorado School of Medicine, Aurora, CO, United States*
- #P124      **The Role of Alpha-gustducin and ITPR3 in Salty Taste in Mice**  
Jacob Price<sup>1</sup>, Michael Tordoff<sup>2</sup>, Justin Knox<sup>1</sup>, Tiffany Aleman<sup>2</sup>, Robert Margolskee<sup>2</sup>, Stuart McCaughey<sup>3</sup>. <sup>1</sup>*Department of Biology, Ball State University, Muncie, IN, United States*, <sup>2</sup>*Monell Chemical Senses Center, Philadelphia, PA, United States*, <sup>3</sup>*Center for Medical Education, IUSM-Muncie at Ball State University, Muncie, IN, United States*
- #P125      **Spilanthal Modulates Sensitivity to Sodium in Mouse Taste Bud Cells**  
Jiang Xu<sup>1</sup>, Yasutaka Shoji<sup>2</sup>, Toshio Miyazawa<sup>3</sup>, Bruce Bryant<sup>4</sup>. <sup>1</sup>*Monell Chemical Senses Center, Philadelphia, PA, United States*, <sup>2</sup>*Ogawa Co. Ltd., Tokyo, Japan*, <sup>3</sup>*Ogawa Co., Ltd, Tokyo, Japan*, <sup>4</sup>*Monell Chemical Senses Center, Philadelphia, United States*

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# PROGRAM IN DETAIL POSTER SESSION I

# THURSDAY 8 – 10:30 AM

THURSDAY

- #P126 **Action Potentials in CALHM1-KO Type II Taste Bud Cells**  
Zhongming Ma, Wint Thu Saung, Kevin Foscett. *Department of Physiology University of Pennsylvania, Philadelphia, PA, United States*
- #P127 **In vivo Juxtacellular Labeling of Rat Geniculate Ganglion Neurons Demonstrates Both Peripheral and Central Processes**  
Yusuke Yokota, Robert M. Bradley. *Biologic & Materials Sciences, School of Dentistry, University of Michigan, Ann Arbor, MI, United States*
- #P128 **The Interglomerular Circuit Directly Inhibits Mitral/Tufted Cells**  
Shaolin Liu<sup>1</sup>, Adam C. Puche<sup>2</sup>, Michael T. Shipley<sup>2</sup>. <sup>1</sup>*Department of Anatomy & Neurobiology University of Maryland School of Medicine, Baltimore, MD, United States*, <sup>2</sup>*Department of Anatomy & Neurobiology University of Maryland School of Medicine, Baltimore, MD, United States*
- #P129 **Receptors for ATP, 5HT and GABA are Differentially Expressed and Functional in Geniculate Ganglion Neurons**  
Gennady Dvoryanchikov<sup>1</sup>, Jennifer K. Roebber<sup>2</sup>, Stephen Roper<sup>3</sup>, Nirupa Chaudhari<sup>3</sup>. <sup>1</sup>*Dept of Physiology & Biophysics, Miller Sch Med, U Miami, Miami, FL, United States*, <sup>2</sup>*Program in Neurosciences, Miller Sch Med, U Miami, Miami, FL, United States*, <sup>3</sup>*Dept of Physiology & Biophysics, Program in Neurosciences, Miller Sch Med, U Miami, Miami, FL, United States*
- #P130 **Palatability of Three Basic Tastes in a Cross-species Approach**  
Emilie A. Leclerc<sup>1</sup>, Magali Fournier<sup>1</sup>, Aurélie de Ratuld<sup>1</sup>, R. Kyle Palmer<sup>2</sup>, Daniel J. Long<sup>2</sup>. <sup>1</sup>*Diana Pet Food, Elven, France*, <sup>2</sup>*Opertech Bio, Inc., Philadelphia, PA, United States*
- #P131 **Oromotor Taste Reactivity Measured during a LiCl-induced State Reveals the Rapid Formation and Retention of a Conditioned Taste Aversion in Rats with Lesions in a Subregion of Insular Cortex Implicated in Taste Aversion Learning**  
Camille T. King<sup>1</sup>, Ginger D. Blonde<sup>2</sup>, Michael S. King<sup>3</sup>, Koji Hashimoto<sup>4</sup>, Lindsey A. Schier<sup>5</sup>, Alan C. Spector<sup>5</sup>. <sup>1</sup>*Stetson University/Department of Psychology, DeLand, FL, United States*, <sup>2</sup>*Florida State University/Department of Psychology & Program in Neuroscience, Tallahassee, FL, United States*, <sup>3</sup>*Stetson University/Department of Biology, DeLand, FL, United States*, <sup>4</sup>*Kumamoto University/Department of Morphological and Physiological Sciences, Kumamoto, Japan*, <sup>5</sup>*Florida State University/Department of Psychology & Program in Neuroscience, Tallahassee, FL, United States*

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# PROGRAM IN DETAIL POSTER SESSION I

**THURSDAY  
8 – 10:30 AM**

THURSDAY

#P132

## Olfactory Preferences are Just a Matter of Taste: Retronasal Learning Requires Taste Cortex

 **Don Tucker**  
Award Finalist

Meredith L. Blankenship<sup>1</sup>, Don Katz<sup>2</sup>, Joost X. Maier<sup>3</sup>. <sup>1</sup>Brandeis University, Biology Department, Waltham, MA, United States, <sup>2</sup>Brandeis University, Biology Department, Waltham, MA, United States, <sup>3</sup>Wake Forest School of Medicine, Department of Neurobiology & Anatomy, Winston-Salem, NC, United States

#P133

## The Experienced Palette is a Smart One: Investigating the Role that the Gustatory Cortex Plays in the Impact of Experience on Taste Learning

Veronica L. Flores<sup>1</sup>, David Levitan<sup>2</sup>, Tamar Parmet<sup>1</sup>, Ray Nicks<sup>2</sup>, Donald B. Katz<sup>1</sup>. <sup>1</sup>Brandeis University, Psychology Department, Waltham, MA, United States, <sup>2</sup>Brandeis University, Biology Department, Waltham, MA, United States

#P134

## Elucidating Mechanisms Underlying Odor-Mediated Memory Consolidation in the Human Brain

Laura K. Shanahan, Shayna R. Levine, Eva Gjorgieva, Jay A. Gottfried. Northwestern University/Neurology Department, Chicago, IL, United States

#P135

## The Impact of Chemosensory Cues of Anxiety on Fear Perception – an fMRI Investigation in Healthy Individuals and Autism Spectrum Disorder Patients

Olga A. Wudarczyk<sup>1</sup>, Nils Kohn<sup>2</sup>, Rene Bergs<sup>3</sup>, Katharina Goerlich<sup>1</sup>, Raquel Gur<sup>4</sup>, Bruce Turetsky<sup>5</sup>, Frank Schneider<sup>1</sup>, Ute Habel<sup>1</sup>. <sup>1</sup>Department of Psychiatry, Psychotherapy and Psychosomatics, RWTH Aachen University, Aachen, Germany, <sup>2</sup>Department for Cognitive Neuroscience, Donders Institute, Nijmegen, Netherlands, <sup>3</sup>Department of Psychiatry, Psychotherapy and Psychosomatics, RWTH Aachen University, Aachen, Germany, <sup>4</sup>Department of Psychiatry, University of Pennsylvania, Philadelphia, United States, <sup>5</sup>Department of Psychiatry, University of Pennsylvania, Philadelphia, Germany

#P136

## Human Olfactory Fear Generalization Across Binary Odor Mixtures

Lisa P. Qu, Daria Boratyn, Eva Gjorgieva, Thorsten Kahnt, Jay A. Gottfried. Northwestern University/Department of Neurology, Chicago, IL, United States

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# PROGRAM IN DETAIL POSTER SESSION I

# THURSDAY 8 – 10:30 AM

THURSDAY

- #P137 **Long-Lasting Enhancement of Odor-Evoked Periglomerular Activity after Olfactory Fear Conditioning**  
Marley D. Kass, John P. McGann. *Behavioral & Systems Neuroscience Section, Psychology Dept., Rutgers University, Piscataway, NJ, United States*
- #P138 **Anxiety Body Odor Induces a Stress Response in the Recipient: Evidence from Recognition of Dynamic Facial Expressions and Heart Rate Variability**  
Marta Rocha<sup>1</sup>, Valentina Parma<sup>2</sup>, Johan Lundstrom<sup>3</sup>, Sandra C. Soares<sup>1</sup>.  
<sup>1</sup>Department of Education and Psychology, University of Aveiro, Aveiro, Portugal, <sup>2</sup>SISSA, Neuroscience Area, Trieste, Italy, <sup>3</sup>Karolinska Institutet, Department of Psychology, Stockholm, Sweden
- #P139 **Chemosensory Threat Signals: The Case of Strangers' Body Odor**  
Cinzia Cecchetto<sup>1</sup>, Annachiara Cavazzana<sup>2</sup>, Amy R. Gordon<sup>3</sup>, Vanessa Rebeschini<sup>4</sup>, Valentina Parma<sup>1</sup>, Johan N. Lundström<sup>5</sup>.  
<sup>1</sup>SISSA, Neuroscience Area, Via Bonomea, 265, 34136 Trieste, Italy, Trieste, Italy, <sup>2</sup>Department of General Psychology, University of Padova, Padova, Italy, Padova, Italy, <sup>3</sup>Monell Chemical Senses Center, Philadelphia, United States, Philadelphia, United States, <sup>4</sup>Department of General Psychology, University of Padova, Italy, Padova, Italy, <sup>5</sup>Department of Clinical Neuroscience, Karolinska Institutet, Stockholm, Sweden, Stockholm, Sweden
- #P140 **Blunted Olfactory Function in Combat Veterans with and without PTSD**  
Bernadette M. Cortese<sup>1</sup>, Kimberly Leslie<sup>2</sup>, Patrick McConnell<sup>3</sup>, Qing Yang<sup>4</sup>, Thomas W. Uhde<sup>2</sup>. <sup>1</sup>Medical University of South Carolina/ Department of Psychiatry & Behavioral Sciences, Charleston, SC, United States, <sup>2</sup>Medical University of South Carolina / Department of Psychiatry & Behavioral Sciences, Charleston, SC, United States, <sup>3</sup>Medical University of South Carolina/Department of Neurosciences, Charleston, SC, United States, <sup>4</sup>Penn State College of Medicine / Department of Radiology, Hershey, PA, United States
- #P141 **WITHDRAWN**

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#P142

## Subjective and Objective Gustatory and Olfactory Functioning during Chemotherapy in Breast Cancer Patients and Women without Breast Cancer

Yfke C. de Vries<sup>1</sup>, Sanne Boesveldt<sup>2</sup>, Renate Winkels<sup>2</sup>, Hanneke van Laarhoven<sup>3</sup>, Ellen Kampman<sup>2</sup>, Kees de Graaf<sup>2</sup>. <sup>1</sup>*Top Institute Food and Nutrition, Wageningen, Netherlands*, <sup>2</sup>*Wageningen University, Division of Human Nutrition, Wageningen, Netherlands*, <sup>3</sup>*Academic Medical Center, Department of Oncology, Amsterdam, Netherlands*

#P143

## Reduced Caudate Connectivity in Phantosmia Patients using Resting State fMRI

Donald Leopold<sup>1</sup>, Clare Park<sup>2</sup>, Murtaza Bharmal<sup>2</sup>, Joshua Nickerson<sup>3</sup>, Richard Watts<sup>3</sup>, Bruno Cardoso<sup>4</sup>, David Hornung<sup>5</sup>. <sup>1</sup>*University of Vermont Medical Center, Department of Surgery, Burlington, VT, United States*, <sup>2</sup>*University of Vermont Medical School, Burlington, VT, United States*, <sup>3</sup>*University of Vermont Medical Center, Department of Radiology, Burlington, VT, United States*, <sup>4</sup>*Yale School of Medicine, New Haven, CT, United States*, <sup>5</sup>*Saint Lawrence University, Canton, NY, United States*

THURSDAY



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# PROGRAM IN DETAIL

THURSDAY

10:30 am – 12:30 pm		<b>SYMPOSIUM</b> <b>Olfactory Dysfunction in Traumatic Brain Injury</b> Chair/Organizer: Diego Restrepo <i>Calusa Ballroom 1</i>
10:30 am	#O2	<b>Symposium Overview</b> Diego Restrepo. <i>University of Colorado Anschutz Medical Campus, Aurora, CO, United States</i>
10:40 am	#O3	<b>Excitatory/Inhibitory Synaptic Imbalance and Dietary Therapy Following Traumatic Brain Injury</b> Akiva Cohen <sup>1</sup> , Brian Johnson <sup>2</sup> , Jaclynn Elkind <sup>3</sup> , Hannah Metheny <sup>2</sup> , Kaitlin Folweiler <sup>4</sup> , Christopher Palmer <sup>4</sup> . <sup>1</sup> <i>Department of Anesthesiology Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, United States</i> , <sup>2</sup> <i>Children's Hospital of Philadelphia, Philadelphia, PA, United States</i> , <sup>3</sup> <i>Children's Hospital of Philadelphia, Philadelphia, PA, United States</i> , <sup>4</sup> <i>Neuroscience Graduate Group, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, United States</i>
11:10 am	#O4	<b>How to Fix a Broken Nose: Olfactory Stem Cells and Regeneration</b> James E. Schwob. <i>Tufts University School of Medicine/DMCB, Boston, MA, United States</i>
11:40 am	#O5	<b>Trauma-Related Olfactory Deficits: An Otolaryngology Perspective</b> Bradley J. Goldstein. <i>University of Miami Miller School of Medicine, Department of Otolaryngology, Miami, FL, United States</i>
Noon	#O6	<b>Using the Olfactory System to Study Traumatic Brain Injury</b> Leonardo Belluscio <sup>1</sup> , Zhishang Zhou <sup>2</sup> . <sup>1</sup> <i>National Institutes of Health / NINDS, Bethesda, MD, United States</i> , <sup>2</sup> <i>National Institutes of Health / NINDS, Bethesda, MD, United States</i>
10:30 am – 12:30 pm		<b>SYMPOSIUM</b> <b>Deconstructing Food</b> Chair/Organizer: Joel Mainland <i>Calusa Ballroom 2</i>
10:30 am	#O7	<b>Symposium Overview</b> Joel D. Mainland. <i>Monell Chemical Senses Center, Philadelphia, PA, United States</i>
cont.		

# PROGRAM IN DETAIL

10:35 am	#O8	<b>From Chemicals to Odor Images</b> Terry E. Acree <sup>1</sup> , Géraldine Prévost <sup>2</sup> , Manon Gros <sup>1</sup> . <sup>1</sup> <i>Cornell University Food Science, Ithaca, NY, United States</i> , <sup>2</sup> <i>Cornell University/Food Science, Ithaca, NY, United States</i>
11:05 am	#O9	<b>Deciphering Food Odor and Taste Codes by Means of a Sensomics Approach</b> Thomas F. Hofmann. <i>Technical University of Munich, Germany, Freising, Germany</i>
11:35 am	#O10	<b>The Flavour Network: An Introduction to Computational Gastronomy</b> Sebastian E. Ahnert. <i>TCM Group, Cavendish Laboratory, University of Cambridge, Cambridge, United Kingdom</i>
Noon	#O11	<b>Volatiles in Fruits can Enhance Sweetness Independently of Sugars</b> Linda M. Bartoshuk. <i>University of Florida/Food Science and Human Nutrition, Gainesville, FL, United States</i>
12:30 – 1:30 pm		<b>LONG RANGE PLANNING COMMITTEE MEETING</b> <i>Great Egret</i>
1:30 – 3 pm		<b>CLINICAL SYMPOSIUM</b> <b>Anosmia - The Patient, The Clinic, The Cure?</b> Chairs/Organizers: Valerie Duffy and Sanne Boesveldt <i>Calusa Ballroom 1</i>
1:30 pm		<b>Introduction</b> Valerie Duffy. <i>Clinical Relations Committee Chair</i>
1:35 pm	#O12	<b>Symposium Overview</b> Sanne Boesveldt. <i>Wageningen University, Division of Human Nutrition, Wageningen, Netherlands</i>
1:45 pm	#O13	<b>The Impact of Olfactory Disorders on Quality of Life and Emotional Wellbeing</b> Duncan Boak. <i>Fifth Sense, London, United Kingdom</i>
cont.		

THURSDAY

# PROGRAM IN DETAIL

## THURSDAY

2 pm	#O14	<b>ENT Perspective in Sinonasal Anosmia - Diagnosis, Treatment and Prognosis</b> <i>Antje Welge-Lüssen. Dept. of Otorhinolaryngology, University Hospital Basel, Basel, Switzerland</i>
2:20 pm	#O15	<b>Illuminating Cellular Diversity and Mechanisms of Regeneration in the Olfactory Epithelium Stem Cell Niche</b> John Ngai <sup>1</sup> , Russell Fletcher <sup>2</sup> , Levi Gadye <sup>3</sup> , Michael Sanchez <sup>4</sup> , Diya Das <sup>4</sup> , Yoon-Gi Choi <sup>5</sup> , Ariane Baudhuin <sup>4</sup> , Davide Risso <sup>6</sup> , Kelly Street <sup>6</sup> , Allon Wagner <sup>7</sup> , Michael Cole <sup>7</sup> , Sandrine Dudoit <sup>6</sup> , Elizabeth Purdom <sup>8</sup> , Nir Yosef <sup>7</sup> . <sup>1</sup> Dept of MCB and Helen Wills Neuroscience Institute University of California, Berkeley, CA, United States, <sup>2</sup> Department of Molecular and Cell Biology University of California, Berkeley, CA, United States, <sup>3</sup> Helen Wills Neuroscience Institute University of California, Berkeley, CA, United States, <sup>4</sup> Department of Molecular and Cell Biology University of California, Berkeley, CA, United States, <sup>5</sup> Functional Genomics Laboratory University of California, Berkeley, CA, United States, <sup>6</sup> Division of Biostatistics University of California, Berkeley, CA, United States, <sup>7</sup> Department of EECS University of California, Berkeley, CA, United States, <sup>8</sup> Department of Statistics University of California, Berkeley, CA, United States
2:40 pm	#O16	<b>Gene Therapeutic Strategies for Congenital Anosmias: Translating Basic Science and Pre-clinical Work</b> <i>Jeffrey R. Martens. University of Florida, Department of Pharmacology &amp; Therapeutics, Gainesville, FL, United States</i>
3 – 5 pm		<b>ORAL SESSION I</b> Moderator: Steve Munger <i>Calusa Ballroom 1</i>
3 pm	#O17	<b>Taste Pathways and Tastant Selectivity in Tree Shrews (<i>Scandentia</i>, <i>Tupaia Belangeri</i>)</b> Erin E. Maher <sup>1</sup> , Suvarnambiga Kannan <sup>1</sup> , McKenzie Prillaman <sup>1</sup> , Saloni Singh <sup>2</sup> , Sussana Owusu-Ansah <sup>2</sup> , Isabel Ho <sup>3</sup> , Heywood Petry <sup>3</sup> , Alev Erisir <sup>2</sup> . <sup>1</sup> University of Virginia, Department of Psychology, Charlottesville, VA, United States, <sup>2</sup> University Of Virginia, Department of Psychology, Charlottesville, VA, United States, <sup>3</sup> University of Louisville, Department of Psychological and Brain Sciences, Louisville, KY, United States
3:20 pm	#O18	<b>Lhx2 Determines Odorant Receptor Expression Frequency in Mature Olfactory Sensory Neurons</b> <i>Tim McClintock, Guangfan Zhang, William Titlow. University of Kentucky Department of Physiology, Lexington, KY, United States</i>
<i>cont.</i>		

# PROGRAM IN DETAIL

3:40 pm	#O19	<b>Odorant Receptor Expression is Perturbed in Mice Following Recovery from Genetically-Mediated Lesions</b> Jessica H. Brann <sup>1</sup> , Xinmin Zhang <sup>2</sup> , Eleonora F. Spinazzi <sup>3</sup> , Claire Franklin <sup>1</sup> , Paulina Lis <sup>1</sup> , Natasha Kharas <sup>3</sup> , Clara Altomare <sup>3</sup> , Stuart J. Firestein <sup>3</sup> . <sup>1</sup> <i>Department of Biology, Loyola University Chicago, Chicago, IL, United States</i> , <sup>2</sup> <i>BioInfoRx, Madison, WI, United States</i> , <sup>3</sup> <i>Department of Biological Sciences, Columbia University, New York, NY, United States</i>
4 pm	#O20	<b>Gene Therapeutic Restoration of Olfactory Cilia and Odor Detection in Bardet-Biedl Syndrome</b> Cedric R. Uyttingco <sup>1</sup> , Corey L. Williams <sup>1</sup> , Art Zimmerman <sup>1</sup> , Warren W. Green <sup>1</sup> , Lian Zhang <sup>1</sup> , Jeremy C. McIntyre <sup>2</sup> , Val C. Sheffield <sup>3</sup> , Jeffrey R. Martens <sup>1</sup> . <sup>1</sup> <i>University of Florida, Department of Pharmacology and Therapeutics, Gainesville, FL, United States</i> , <sup>2</sup> <i>University of Florida, Department of Neuroscience, Gainesville, FL, United States</i> , <sup>3</sup> <i>University of Iowa, Department of Ophthalmology and Visual Sciences, Iowa City, IA, United States</i>
4:20 pm	#O21	<b>Coordinated Guidance of Presynaptic and Postsynaptic Processes by Wnt5, Derailed/Ryk and Van Gogh in <i>Drosophila Melanogaster</i></b> Huey Hing <sup>1</sup> , Lee G. Fradkin <sup>2</sup> . <sup>1</sup> <i>State University of New York at Brockport, Department of Biology, Brockport, NY, United States</i> , <sup>2</sup> <i>University of Massachusetts Medical School, Department of Neurobiology, Worcester, MA, United States</i>
4:40 pm	#O22	<b><math>\beta</math>-catenin is Required for Taste Bud Homeostasis and Maintenance of Behavioral Taste Perception in Adult Mice</b> Linda A. Barlow <sup>1</sup> , Dany Gaillard <sup>2</sup> , Spencer G. Bowles <sup>2</sup> , Mingang Xu <sup>3</sup> , Sarah E. Millar <sup>4</sup> . <sup>1</sup> <i>University of Colorado School of Medicine/ Dept of Cell and Developmental Biology, Aurora, CO, United States</i> , <sup>2</sup> <i>University of Colorado School of Medicine, Dept of Cell and Developmental Biology, Aurora, CO, United States</i> , <sup>3</sup> <i>U Penn, SOM, Depts of Dermatology and Cell and Developmental Biology, Philadelphia, PA, United States</i> , <sup>4</sup> <i>U Penn, SOM Depts of Dermatology and Cell &amp; Developmental Biology, Philadelphia, PA, United States</i>

THURSDAY



# PROGRAM IN DETAIL

THURSDAY

3 – 5 pm		<b>ORAL SESSION II</b> Moderator: Sue Kinnamon <i>Calusa Ballroom 2</i>
3 pm	#O23	<b>Inhibition of Neurophysiological and Behavioral Responses to Sweet Stimuli by Gastrointestinal LPS</b> Lynnette P. McCluskey <sup>1</sup> , Lynnette P. McCluskey <sup>2</sup> , Lianying He <sup>3</sup> , Tyler Nelson <sup>4</sup> , Dave W. Pittman <sup>4</sup> . <sup>1</sup> <i>Medical College of Georgia / Dept. of Neuroscience &amp; Regenerative Medicine, Augusta, GA, United States</i> , <sup>2</sup> <i>Medical College of Georgia, Augusta, GA, United States</i> , <sup>3</sup> <i>Medical College of Georgia / Dept. Neuroscience &amp; Regenerative Medicine, Augusta, GA, United States</i> , <sup>4</sup> <i>Wofford College / Dept. of Psychology, Spartanburg, SC, United States</i>
3:20 pm	#O24	<b>The Correspondence of the Nasal Microbiome and Normal Olfactory Function</b> Johanna L. Reichert <sup>1</sup> , Kaisa Koskinen <sup>2</sup> , Christine Moissl-Eichinger <sup>2</sup> , Stefan Hoier <sup>3</sup> , Veronika Schöpf <sup>1</sup> . <sup>1</sup> <i>University of Graz, Department of Psychology, Graz, Austria</i> , <sup>2</sup> <i>Medical University of Graz, Department of Internal Medicine, Graz, Austria</i> , <sup>3</sup> <i>Hanusch Krankenhaus Vienna, Department of Otorhinolaryngology, Head and Neck Surgery, Vienna, Austria</i>
3:40 pm	#O25	<b>Multimodal Responses in the Olfactory Bulb</b> Lindsey A. Czarnecki, Cynthia D. Fast, John P. McGann. <i>Behavioral &amp; Systems Neuroscience Section, Psychology Dept., Rutgers University, Piscataway, NJ, United States</i>
4 pm	#O26	<b>The Effect of Anesthetics on Taste Responses</b> Larson D. Eric <sup>1</sup> , Aurelie Vandenbeuch <sup>1</sup> , Thomas E. Finger <sup>2</sup> , Sue C. Kinnamon <sup>1</sup> . <sup>1</sup> <i>University of Colorado, Department of Otolaryngology, Aurora, CO, United States</i> , <sup>2</sup> <i>University of Colorado, Department of Cell and Developmental Biology, Aurora, CO, United States</i>
4:20 pm	#O27	<b>Sweet Dopamine: Striatal D2 Receptor Binding and Age are Associated Differentially with Sucrose Preferences in Obesity</b> M. Yanina Pepino <sup>1</sup> , Sarah A. Eisenstein <sup>2</sup> , Allison N. Bischoff <sup>2</sup> , Samuel Klein <sup>2</sup> , Stephen M. Moerlein <sup>2</sup> , Joel S. Perlmutter <sup>2</sup> , Kevin J. Black <sup>2</sup> , Tamara Hershey <sup>2</sup> . <sup>1</sup> <i>Washington University School of Medicine, St. Louis, MO, United States</i> , <sup>2</sup> <i>Washington University, School of Medicine, St. Louis, MO, United States</i>
		cont.

# PROGRAM IN DETAIL

4:40 pm

#O28

## Separate Circuitries Encode the Gustatory and Nutritional Values of Sugar

Ivan E. De Araujo<sup>1</sup>, Luis Tellez<sup>2</sup>, Wenfei Han<sup>2</sup>, Xiabing Zhang<sup>2</sup>, Tatiana Ferreira<sup>2</sup>, Sara J. Shammah-Lagnado<sup>2</sup>, Anthony van den Pol<sup>2</sup>. <sup>1</sup>*The John B Pierce Laboratory, New Haven, CT, United States*, <sup>2</sup>*The J.B. Pierce Laboratory, New Haven, CT, United States*

5 – 7 pm

## The Barry Davis Workshop: Funding Opportunities for the New Investigator

Chair/Organizer: Susan Sullivan, NIDCD

*Calusa Ballroom 2*

This workshop will include an overview of research, training, and funding opportunities for graduate students, postdoctoral fellows, and early stage investigators. The discussion will provide practical information on how grant applications are processed within NIH/ NIDCD, including Institute and study section assignments, the peer review process, Advisory Council activities, pay lines, and the roles of program and review staff.

THURSDAY



# PROGRAM IN DETAIL POSTER SESSION II

**THURSDAY  
8 – 10:30 PM**

THURSDAY

8 – 10:30 pm

## POSTER SESSION II

*Estero Ballroom*

#P201

### **Myelination of the Developing Anterior Commissure**

Lindsay N. Collins<sup>1</sup>, Peter C. Brunjes<sup>2</sup>. <sup>1</sup>*University of Virginia, Psychology, Charlottesville, VA, United States*, <sup>2</sup>*University of Virginia/ Psychology, Charlottesville, VA, United States*

#P202

### **Postnatal Pruning of Primary Gustatory Afferent Terminal Fields in the Mouse NST May Be Driven by Microglia**

David L. Hill, Shuqiu Zheng, Chengsan Sun, David L. Hill. *University of Virginia/Psychology, Charlottesville, VA, United States*

#P203

### **Olfactory Function and Structural Integrity of Entorhinal Cortex and Hippocampus in Non-demented Middle-aged and Older Adults at Risk for Alzheimer's Disease**

Claire Murphy<sup>1</sup>, Elissa McIntosh<sup>2</sup>, Aaron Jacobson<sup>3</sup>, Erin Green<sup>1</sup>, Lori Haase<sup>1</sup>, Nobuko Kemmotsu<sup>3</sup>. <sup>1</sup>*SDSU/UCSD Joint Doctoral Program, San Diego, CA, United States*, <sup>2</sup>*Department of Psychology, San Diego State University, San Diego, CA, United States*, <sup>3</sup>*San Diego State University Research Foundation, San Diego, CA, United States*

#P204

### **Odor-Shape Cross-Modal Associations: A Developmental Trajectory**

Nathalie Goubet<sup>1</sup>, Daniel D. McCall<sup>3</sup>, Kira Mason<sup>2</sup>, Olga Nynas<sup>2</sup>, Alexandra Kowker<sup>2</sup>. <sup>1</sup>*Gettysburg College, Gettysburg, PA, United States*, <sup>2</sup>*Department of Psychology, Gettysburg College, Gettysburg, PA, United States*

#P205

### **Olfactory Sensory Neurons Transiently Express Multiple Olfactory Receptors during Development**

Longzhi Tan<sup>1</sup>, Qian Li<sup>2</sup>, Xiaoliang Sunney Xie<sup>1</sup>. <sup>1</sup>*Harvard University/ Department of Chemistry and Chemical Biology, Cambridge, MA, United States*, <sup>2</sup>*Harvard Medical School/Department of Cell Biology, Boston, MA, United States*

#P206

### **BMP Receptor Alk2 Mediates Mesenchymal-Epithelial Interactions for the Development of Mouse Tongue and Taste Papillae**

Mohamed Ishan<sup>1</sup>, Brett Marshall<sup>1</sup>, Sehar Lalani<sup>1</sup>, Nandakumar Venketasan<sup>1</sup>, Prasangi Rajapaksha<sup>1</sup>, Vesa Kaartinen<sup>2</sup>, Yuji Mishina<sup>2</sup>, Hong-Xiang Liu<sup>1</sup>. <sup>1</sup>*Regenerative Bioscience center, University of Georgia, Athens, GA, United States*, <sup>2</sup>*Department of Biologic and Materials Science, University of Michigan, Ann Arbor, MI, United States*

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# PROGRAM IN DETAIL POSTER SESSION II

**THURSDAY  
8 – 10:30 PM**

THURSDAY

- #P207      **K14-Cre and Dermo-Cre Each Labels a Subpopulation of Taste Bud Cells in Mice**  
Guigian Chen, Brett Marshall, Nandakumar Venkatesan, Hong-Xiang Liu. *Regenerative Bioscience Center, University of Georgia, Athens, GA, United States*
- #P208      **BMI, Sleep Duration Associated with Sweet Taste Preference in Children**  
Robin M. Tucker<sup>1</sup>, Rachel L. Vollmer<sup>2</sup>, Lauren Robinson<sup>3</sup>, Nicole Royer<sup>3</sup>, Stacie Pabst<sup>3</sup>. <sup>1</sup>*Bowling Green State University/Public and Allied Health, Bowling Green, OH, United States*, <sup>2</sup>*Illinois State University/Department of Family & Consumer Sciences, Normal, IL, United States*, <sup>3</sup>*Bowling Green State University/Public & Allied Health, Bowling Green, OH, United States*
- #P209      **Plasma Concentrations of Sucralose after Ingestion of Sucralose Containing Beverages in Children and Adults**  
Kristina I. Rother<sup>1</sup>, Allison C. Sylvestsky<sup>2</sup>, Jenny E. Blau<sup>1</sup>, Viviana Bauman<sup>1</sup>, H M. Garraffo<sup>1</sup>, Peter J. Walter<sup>1</sup>. <sup>1</sup>*NIH/NIDDK, Bethesda, MD, United States*, <sup>2</sup>*Exercise and Nutrition Sciences, Washington, DC, United States*
- #P210      **Fatty Acid Signaling Pathways Play a Role in Weight Gain and Weight Loss on High Fat Diets**  
Melissa N. Fillmore<sup>1</sup>, Timothy A. Gilbertson<sup>2</sup>. <sup>1</sup>*Utah State University/Biology, Logan, UT, United States*, <sup>2</sup>*Utah State University, Logan, UT, United States*
- #P211      **Sustained Weight Loss and Altered Lipid Taste Sensitivity Induced by Modulation of Salivary PYY and Exendin-4 in Mice**  
Sean M. Crosson<sup>1</sup>, Seth Currin<sup>2</sup>, Taimoor Khan<sup>2</sup>, Cedric D. Dotson<sup>3</sup>, Sergei Zolotukhin<sup>1</sup>. <sup>1</sup>*University of Florida, Department of Pediatrics, Gainesville, FL, United States*, <sup>2</sup>*University of Florida, Gainesville, FL, United States*, <sup>3</sup>*University of Florida, Department of Neuroscience and Psychiatry, Gainesville, FL, United States*

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# PROGRAM IN DETAIL POSTER SESSION II

**THURSDAY  
8 – 10:30 PM**

THURSDAY

- #P212 **Are Low Bitter Tasters More Successful at Weight Loss One Year Post-Bariatric Surgery?**  
Valerie B. Duffy<sup>1</sup>, Andrea Stone<sup>2</sup>, Helen Swede<sup>3</sup>, Shristi Rawal<sup>4</sup>, Darren S. Tishler<sup>2</sup>, Marina Zoghbi<sup>5</sup>, Pavlos K. Papasavas<sup>2</sup>. <sup>1</sup>UConn/Allied Health Sciences, Storrs, CT, United States, <sup>2</sup>Department of Surgery, Hartford Hospital, Hartford, CT, United States, <sup>3</sup>Department of Community Medicine and Health Care, UConn Health, Farmington, CT, United States, <sup>4</sup>NIH/NICHD/DIPHR/EB, Rockville, MD, United States, <sup>5</sup>Allied Health Sciences, UConn, Storrs, CT, United States
- #P213 **Diet Induced Salivary Protein Expression is Stimulus Specific**  
Laura E. Martin<sup>1</sup>, Larissa V. Nikonova<sup>2</sup>, Kristen E. Kay<sup>1</sup>, Ann-Marie M. Torregrossa<sup>1</sup>. <sup>1</sup>University at Buffalo, Dept of Psychology, Buffalo, NY, United States, <sup>2</sup>Florida State University, Dept of Psychology, Tallahassee, FL, United States
- #P214 **Haplotype-specific TAS2R38 mRNA Expression in Human Fungiform Papillae and Nasal Epithelium**  
 Don Tucker Award Finalist Jennifer E. Douglas<sup>1</sup>, Corrine J. Mansfield<sup>1</sup>, Nithin D. Adappa<sup>2</sup>, James N. Palmer<sup>2</sup>, Noam A. Cohen<sup>2</sup>, Danielle R. Reed<sup>1</sup>. <sup>1</sup>Monell Chemical Senses Center, Philadelphia, PA, United States, <sup>2</sup>University of Pennsylvania Department of Otorhinolaryngology, Philadelphia, PA, United States
- #P215 **The Effects of Polymorphisms in the Tas1r3 Taste Receptor Gene on the Temporal Firing Pattern of Mouse Brainstem Gustatory Neurons**  
Stuart McCaughey<sup>1</sup>, Alexander Bachmanov<sup>2</sup>. <sup>1</sup>Ball State University, Muncie, IN, United States, <sup>2</sup>Monell Chemical Senses Center, Philadelphia, PA, United States
- #P216 **Variation at the Sac Locus Predicts Subsequent Quinine Intake in B6xD2 F2 Mice**  
David A. Blizard<sup>1</sup>, Marion E. Frank<sup>2</sup>, Thomas P. Hettinger<sup>2</sup>. <sup>1</sup>Pennsylvania State University/BioBehavioral Health, State College, PA, United States, <sup>2</sup>UConn HEALTH/Oral Health, Farmington, CT, United States
- #P217 **Functional Relationship between Oral and Intestinal Sweetener Receptors**  
Matthew Kochem, Paul Breslin. Rutgers University / Department of Nutritional Sciences, New Brunswick, NJ, United States

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- #P218 **Differential Expression and Localization of GPCRs to Cilia of Neurons in the Olfactory Bulb**  
Jeremy C. McIntyre. *Department of Neuroscience, Center for Smell and Taste, University of Florida, Gainesville, FL, United States*
- #P219 **Identification of Mammalian Olfactory Receptors Responsive to an Opponent Odorant Pair**  
Elizabeth A. Corey<sup>1</sup>, Kirill Ukhonov<sup>2</sup>, Barry W. Ache<sup>3</sup>. <sup>1</sup>*University of Florida/ Whitney Lab and Center for Smell & Taste, Gainesville, FL, United States*, <sup>2</sup>*University of Florida/ Dept. of Pharmacology and Therapeutics, Gainesville, FL, United States*, <sup>3</sup>*University of Florida/ Whitney Lab and Center for Smell & Taste, Depts Bio and Neurosci, Gainesville, FL, United States*
- #P220 **Strain Dependent Responses of Olfactory Sensory Neurons to 14 Diverse Odors**  
Rachel L. Poole, Michele Dibattista, Casey Trimmer, Joel D. Mainland, Michael G. Tordoff, Johannes Reisert. *Monell Chemical Senses Center, Philadelphia, PA, United States*
- #P221 **Probing the Olfactory Code using Antagonists**  
Marissa L. Kamarck<sup>1</sup>, Nicolle R. Murphy<sup>2</sup>, Paul M. Wise<sup>2</sup>, Joel D. Mainland<sup>1</sup>. <sup>1</sup>*Monell Chemical senses Center; University of Pennsylvania, Philadelphia, PA, United States*, <sup>2</sup>*Monell Chemical Senses Center, Philadelphia, PA, United States*
- #P222 **Comparison of Olfactory Sensitivity in Sensory Neurons and Behaving Animals**  
Annika Cichy<sup>1</sup>, Adam Dewan<sup>1</sup>, Jingji Zhang<sup>1</sup>, Dmitry Rinberg<sup>2</sup>, Thomas Bozza<sup>1</sup>. <sup>1</sup>*Northwestern University/Department of Neurobiology, Evanston, IL, United States*, <sup>2</sup>*NYU Neuroscience Institute/Department of Neuroscience & Physiology, New York, NY, United States*
- #P223 **Simple Measurement of Automated Analysis of Olfactory Behaviors: Results and Concerns**  
Michael Dryden, Jacob Reiss, Thomas Mast. *Eastern Michigan University Department of Biology, Ypsilanti, MI, United States*

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- #P224 **When All Noses Agree: Cross-Cultural Universalities in the Sensory Rejection of Malodor**  
Monique A. Smeets<sup>1</sup>, Jasper H. de Groot<sup>2</sup>, Elodie le Berre<sup>3</sup>, Marianne C. Breckenridge<sup>2</sup>, Michael Haefner<sup>4</sup>. <sup>1</sup>Unilever R&D and Utrecht University, Dept of Psychology, Vlaardingen and Utrecht, Netherlands, <sup>2</sup>Utrecht University, Dept of Psychology, Utrecht, Netherlands, <sup>3</sup>Unilever R&D, Vlaardingen, Netherlands, <sup>4</sup>Berlin University of the Arts, Berlin, Germany
- #P225 **Nostril Differences in Olfactory Performance**  
Daphnée Poupon<sup>1</sup>, Thomas Hummel<sup>2</sup>, Antje Haehner<sup>2</sup>, Antje Welge-Luessen<sup>3</sup>, Johannes Frasnelli<sup>4</sup>. <sup>1</sup>Université du Québec à Trois-Rivières, Department of Anatomy, Trois-Rivières, Canada, <sup>2</sup>Technische Universität Dresden/Department of ENT, Dresden, Germany, <sup>3</sup>University Hospital Basel/Department of Otorhinolaryngology, Basel, Switzerland, <sup>4</sup>Université du Québec à Trois Rivières/Department of Anatomy, Trois-Rivières, Canada
- #P226 **Sip and Spit Versus Sip and Swallow: Differences in Perceived Intensity**  
Cordelia A. Running, John E. Hayes. *Sensory Evaluation Center, and Department of Food Science, Penn State, University Park, PA, United States*
- #P227 **Perceptual Maps of Hop Varieties Generated by Two Groups of Beer Drinkers**  
Elliott McDowell, John E. Hayes. *Sensory Evaluation Center, and Department of Food Science, Penn State, University Park, PA, United States*
- #P228 **Finding the Lower Limits for Olfactory Detection of Vanilla Using the Wheeler-UTC (WUTC) Odor Threshold Test**  
Katherine A. Pendergast, Jessica York, William J. Heaton, Robert Gormley, Naomi Whitson, Irene N. Ozbek. *University of Tennessee at Chattanooga, Chattanooga, TN, United States*
- #P229 **Is Methyl Anthranilate Indeed a Contributor to Fruity Aroma in Strawberry?**  
Anne Plotto<sup>1</sup>, Vance Whitaker<sup>2</sup>, Jinhe Bai<sup>1</sup>, Alan Chambers<sup>3</sup>, Christopher Barbey<sup>3</sup>, Kevin Foltz<sup>3</sup>. <sup>1</sup>USDA, ARS, Fort Pierce, FL, United States, <sup>2</sup>University of Florida, Gulf Coast Research and Education Center, Wimauma, FL, United States, <sup>3</sup>University of Florida, Horticultural Sciences Department, Gainesville, FL, United States

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- #P230      **Effects of Linguistic Labeling on Identification of Gustatory–Olfactory (Acid-Lemon) Flavor Mixtures**  
Ashik Siddique<sup>1</sup>, Maria G. Veldhuizen<sup>2</sup>, Lawrence E. Marks<sup>3</sup>. <sup>1</sup>John B Pierce Laboratory, New Haven, CT, United States, <sup>2</sup>John B Pierce Laboratory and Dept of Psychiatry, Yale School of Medicine, New Haven, CT, United States, <sup>3</sup>John B Pierce Laboratory and Depts of Environmental Health and Psychology, Yale Univ, New Haven, CT, United States
- #P231      **Olfaction Modulates Visual Self Perception**  
Jin Wang, Denise Chen. *Baylor College of Medicine / Neurology, Houston, United States*
- #P232      **Effects of Ambient Light-color Cues on Olfactory Performance**  
Han-Seok Seo, Curtis R. Luckett, Janeé Shofner, Molly McCaskey, Missy Engel, Kaitlyn Meadors, Laura Findahl, Shelby R. Lehman. *University of Arkansas/Department of Food Science, Fayetteville, AR, United States*
- #P233      **Stability of Cross-Modal Associations between Odors, Colors, and Abstract Visual Forms**  
Daniel D. McCall, Alexandra E. Casella, Selah A. Kwak, Joshua D. Rubinstein. *Gettysburg College / Psychology Department, Gettysburg, PA, United States*
- #P234      **Rapid Olfactory and Visual Association in Humans: An Olfactory fMRI Study**  
Brittany Martinez<sup>1</sup>, Jian-li Wang<sup>2</sup>, Prasanna Karunanayaka<sup>2</sup>, Emma Cartisano<sup>2</sup>, Qing X. Yang<sup>2</sup>. <sup>1</sup>The Pennsylvania State University College of Medicine/ Department of Radiology, Hershey, PA, United States, <sup>2</sup>The Pennsylvania State University College of Medicine/Department of Radiology, Hershey, PA, United States
- #P235      **Localization Using Air Puff Stimulation: An fMRI Investigation**  
Prasanna Karunanayaka, Michael Tobia, Aaron Bloschichak, Yunqing Li, Qing Yang. *Department of Radiology, The Pennsylvania State University, Hershey, PA, United States*
- #P236      **Taste Responses of Neurons Within an Anatomically Defined Region of Gustatory Cortex**  
John D. Boughter Jr., Cameron Ogg, Lianyi Lu, Max Fletcher. *University of Tennessee Health Science Center / Department of Anatomy & Neurobiology, Memphis, TN, United States*

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# PROGRAM IN DETAIL POSTER SESSION II

**THURSDAY  
8 – 10:30 PM**

THURSDAY

#P237

## **Evidence for Central Regulation of Taste Sensitivity**

Maria G. Veldhuizen<sup>1</sup>, Yuko Nakamura<sup>2</sup>, Barry G. Green<sup>3</sup>, Dana M. Small<sup>4</sup>. <sup>1</sup>*John B Pierce Laboratory and Dept of Psychiatry, Yale School of Medicine, New Haven, CT, United States*, <sup>2</sup>*John B. Pierce Laboratory, New Haven, CT, United States*, <sup>3</sup>*John B. Pierce Laboratory and Dept of Surgery, Yale School of Medicine, New Haven, CT, United States*, <sup>4</sup>*John B. Pierce Laboratory and Dept of Psychiatry, Yale School of Medicine, New Haven, CT, United States*

#P238

## **Designer Receptors Exclusively Activated by Designer Drugs (DREADD) Inactivation of Forebrain Inputs to the Parabrachial Nucleus in Rats Reveals Dissociable Contributions to Benzodiazepine Hyperphagia in Rats**

David W. Pittman<sup>1</sup>, Alexandra M. Brantly<sup>1</sup>, Taylor M. Hall<sup>1</sup>, Kassie E. Franck<sup>1</sup>, Isaiah Addison<sup>1</sup>, Elizabeth K. Berwaldt<sup>1</sup>, Rebekah C. Bowie<sup>1</sup>, Lauren B. King<sup>1</sup>, Logan C. Shelnutt<sup>1</sup>, John-Paul Baird<sup>2</sup>. <sup>1</sup>*Wofford College / Department of Psychology, Spartanburg, SC, United States*, <sup>2</sup>*Amherst College / Department of Psychology, Amherst, MA, United States*

#P239

## **Differential Signal Processing in Subpopulations of Optogenetically Identified rNST Neurons**

Zhixiong Chen<sup>1</sup>, Susan Travers<sup>2</sup>, Joseph Travers<sup>2</sup>. <sup>1</sup>*The Ohio State University College of Dentistry Division of Biosciences, Columbus, OH, United States*, <sup>2</sup>*Ohio State University College of Dentistry Division of Biosciences, Columbus, OH, United States*

#P240

## **Optogenetic Stimulation of Gustatory Cortical Input onto the Nucleus of the Solitary Tract of the Rat Enhances Taste Information and Learning**

Joshua D. Sammons<sup>1</sup>, Caroline E. Bass<sup>2</sup>, Jonathan D. Victor<sup>3</sup>, Patricia M. Di Lorenzo<sup>1</sup>. <sup>1</sup>*Department of Psychology, Binghamton University, Binghamton, NY, United States*, <sup>2</sup>*Department of Pharmacology and Toxicology, University at Buffalo, SUNY, Buffalo, NY, United States*, <sup>3</sup>*Brain and Mind Research Institute, Weill Cornell Medical College, New York, NY, United States*

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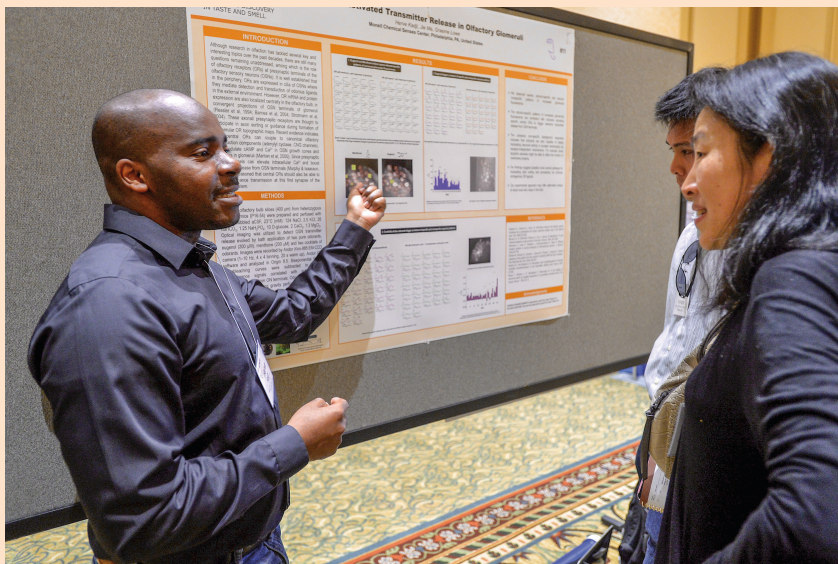
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#P241

## Factors Associated With Inaccurate Self-Reporting of Olfactory Dysfunction in Older U.S. Adults

Dara R. Adams<sup>1</sup>, Kristen E. Wroblewski<sup>2</sup>, David W. Kern<sup>3</sup>, Michael J. Kozloski<sup>4</sup>, William Dale<sup>5</sup>, Martha K. McClintock<sup>6</sup>, Jayant M. Pinto<sup>7</sup>. <sup>1</sup>Pritzker School of Medicine, The University of Chicago, Chicago, IL, United States, <sup>2</sup>Department of Public Health Sciences, The University of Chicago, Chicago, IL, United States, <sup>3</sup>Department of Psychology, Northeastern Illinois University, Chicago, IL, United States, <sup>4</sup>National Opinion Research Center, The University of Chicago, Chicago, IL, United States, <sup>5</sup>Section of Geriatrics & Palliative Medicine, Dept. of Medicine, The Univ. of Chicago, Chicago, IL, United States, <sup>6</sup>Department of Comparative Human Development, The University of Chicago, Chicago, IL, United States, <sup>7</sup>Section of Otolaryngology-Head and Neck Surgery, The University of Chicago, Chicago, IL, United States

THURSDAY



Thursday Poster Hall Diagram on page 85.

**Poster Numbering Key:** The P# listed next to the poster title is the Poster Abstract Number and the Poster Board Number.

Posters should be mounted by 7:30 am and taken down at 10:30 pm. Posters are on display all day.

# PROGRAM IN DETAIL

## FRIDAY, APRIL 22, 2016

7:30 am – 12:30 pm  
6:30 – 7:30 pm

**REGISTRATION**  
*Calusa Ballroom Foyer*

7:30 – 9 am

**CONTINENTAL BREAKFAST**  
*Estero Ballroom Foyer*

FRIDAY



# PROGRAM IN DETAIL POSTER SESSION III

**FRIDAY  
8 – 10:30 AM**

8 – 10:30 am

## POSTER SESSION III

*Estero Ballroom*

#P301

### **Modulation of Olfactory Bulb Odor Responses and Feeding-Related Behavior by Nutritional Status Peptides**

Mounir Bendahmane<sup>1</sup>, Cameron Ogg<sup>2</sup>, Jordan M. Ross<sup>2</sup>, Max L. Fletcher<sup>2</sup>. <sup>1</sup>*Anatomy and Neurobiology, University of Tennessee Health Science Center, Memphis, TN, United States*, <sup>2</sup>*University of Tennessee Health Science Center/ Anatomy & Neurobiology, Memphis, TN, United States*

#P302

### **Evaluating Dietary Quality and Taste Preferences with a Simple Liking Survey: Application to Studying Individuals with Morbid Obesity**

Marina Zoghbi<sup>1</sup>, Andrea Stone<sup>2</sup>, Helen Swede<sup>3</sup>, Shruti Rawal<sup>4</sup>, Darren S. Tishler<sup>2</sup>, Pavlos K. Papasavas<sup>2</sup>, Valerie B. Duffy<sup>5</sup>. <sup>1</sup>*Allied Health Sciences, UConn, Storrs, CT, United States*, <sup>2</sup>*Department of Surgery, Hartford Hospital, Hartford, CT, United States*, <sup>3</sup>*Department of Community Medicine, Farmington, CT, United States*, <sup>4</sup>*NIH/NICHD/DIPHR/EB, Rockville, MD, United States*, <sup>5</sup>*Allied Health Science, UConn, Storrs, CT, United States*

#P303

### **Is the Association between Sweet and Bitter Perception due to Genetics?**

Liang-Dar Hwang<sup>1</sup>, Paul A. Breslin<sup>2</sup>, Danielle R. Reed<sup>2</sup>, Gu Zhu<sup>1</sup>, Nicholas G. Martin<sup>1</sup>, Margaret J. Wright<sup>3</sup>. <sup>1</sup>*QIMR Berghofer Medical Research Institute/Genetic Epidemiology, Brisbane, Australia*, <sup>2</sup>*Monell Chemical Senses Center, Philadelphia, PA, United States*, <sup>3</sup>*University of Queensland/Queensland Brain Institute, Brisbane, Australia*

#P304

### **Gustatory Contributions To Sodium Appetite: A Microstructural Analysis**

Nicole M. Fischer, Christopher P. Schiefer, Steven J. St. John. *Department of Psychology, Rollins College, Winter Park, FL, United States*

#P305

### **Parabrachial Nucleus Melanocortin Receptor Agonist Injection Modifies Parabrachial Gustatory Neuron Responses**

John-Paul Baird, Jennifer C. Swick, Annie I. Handler. *Amherst College, Amherst, MA, United States*

#P306

### **Local Field Potential Oscillations Reflect Stimulus Dependent Activity in the Rat Solitary Nucleus**

Alexander J. Denman. *Psychology Department - Behavioral Neuroscience area, Binghamton, NY, United States*

**Friday Poster Hall Diagram on page 86.**

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FRIDAY

- #P307 **Ventral Tegmental Area Connectivity Suggests Processing of Taste-related Inputs with both Positive and Negative Hedonic Value**  
Louis N. Saites, Lianyi Lu, John D. Boughter. *University of Tennessee Health Science Center, Anatomy & Neurobiology, Memphis, TN, United States*
- #P308 **A Mathematical Model of the Impact of Convergence and Inhibition on Neurons in the Nucleus of the Solitary Tract**  
Alison J. Boxwell<sup>1</sup>, Marion E. Frank<sup>2</sup>, David Terman<sup>3</sup>, Joseph B. Travers<sup>4</sup>. <sup>1</sup>College of Medicine Ohio State University, Columbus, OH, United States, <sup>2</sup>Oral Health and Diagnostic Sciences University of Connecticut Health Center, Farmington, CT, United States, <sup>3</sup>Dept. of Mathematics Ohio State University, Columbus, OH, United States, <sup>4</sup>Div. of Biosciences Ohio State University, Columbus, OH, United States
- #P309 **Characterization of Induced Pluripotent Stem Cell derived Olfactory Receptor Neurons**  
Stefanie Raab, Moritz Klingenstein, Stefan Liebau. *Neuroanatomy, Tübingen, Germany*
- #P310 **Differentiation and Characterization of Induced Pluripotent Stem Cell (iPSC) Derived Olfactory Receptor Neurons (ORNs)**  
Moritz Klingenstein<sup>1</sup>, Stefanie Raab<sup>2</sup>, Stefan Liebau<sup>2</sup>. <sup>1</sup>Institute of Neuroanatomy, Tuebingen, Germany, <sup>2</sup>Institute of Neuroanatomy, Tuebingen, Germany
- #P311 **Network Formation and Regeneration in the Olfactory System of *Xenopus laevis***  
Ivan Manzini<sup>1</sup>, Sara J. Hawkins<sup>1</sup>, Thomas Offner<sup>2</sup>, Lukas Weiss<sup>3</sup>, Katarina Dittrich<sup>1</sup>, Thomas Hassenklöver<sup>1</sup>. <sup>1</sup>University of Göttingen, Institute of Neurophysiology and Cellular Biophysics, Göttingen, Germany, <sup>2</sup>University of Göttingen, Institute of Neurophysiology and Cellular Biophysics, Göttingen, Germany, <sup>3</sup>University of Göttingen, Institute of Neurophysiology and Cellular Biophysics, Göttingen, Germany
- #P312 **Isolated Progenitor Cells from Human Lingual Epithelium can be Differentiated into Functional Type II-like Bitter Taste Cells in vitro**  
Katja Riedel<sup>1</sup>, Cordula Pertl<sup>2</sup>, Mareike Haack<sup>3</sup>, Christiane Gras<sup>1</sup>, Michael Salomon<sup>2</sup>, Michael Krohn<sup>1</sup>. <sup>1</sup>B.R.A.I.N. Biotechnology Research and Information Network AG, Zwingenberg, Germany, <sup>2</sup>Sirion Biotech GmbH, Martinsried, Germany, <sup>3</sup>Department of Otorhinolaryngology, Head and Neck Surgery, LMU Munich, Munich, Germany

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- #P313      **Chronic Inflammation Brought On by Obesity Modulates Regenerative Capacity of Murine Taste Buds**  
Andrew Kaufman, Robin Dando. *Cornell University, Department of Food Science, Ithaca, NY, United States*
- #P314      **Gene Therapeutic Rescue of Olfactory Function: Beyond the Periphery**  
Warren W. Green<sup>1</sup>, Cedric R. Uytengco<sup>1</sup>, Kimberly R. Smith<sup>1</sup>, Jeremy C. McIntyre<sup>2</sup>, Jeffrey R. Martens<sup>1</sup>. <sup>1</sup>*University of Florida, Department of Pharmacology and Therapeutics, Gainesville, FL, United States*, <sup>2</sup>*University of Florida, Department of Neuroscience, Gainesville, FL, United States*
- #P315      **Evaluation of Irritation Potential of Chlorine Dioxide in Healthy Human Volunteers and Asthmatics**  
Christopher Maute, Pamela Dalton. *Monell Chemical Senses Center, Philadelphia, PA, United States*
- #P316      **Trigeminal EEG Source Localization in the Pathophysiology of the Migraine**  
F Hermann<sup>1</sup>, Antje Haehner<sup>2</sup>, Gudrun Gossrau<sup>3</sup>, Thomas Hummel<sup>2</sup>, Emilia Iannilli<sup>2</sup>. <sup>1</sup>*Interdisciplinary Center "Smell & Taste", Dep. of Otorhinolaryngology, TU Dresden, Dresden, Germany*, <sup>2</sup>*Smell & Taste Clinic, Dep. of Otorhinolaryngology, TU Dresden, Dresden, Germany*, <sup>3</sup>*Pain Center, Universitätsklinikum Carl Gustav Carus, TU Dresden, Dresden, Germany*
- #P317      **The Effect of Acupuncture on Olfactory Function in Patients with Post-infectious Olfactory Dysfunction**  
Mandy Cuevas<sup>1</sup>, Bettina Gewald<sup>2</sup>, Bettina Hauswald<sup>1</sup>, Thomas Hummel<sup>1</sup>, Antje Hähner<sup>1</sup>. <sup>1</sup>*smell and taste clinic, department of otorhinolaryngology, TU Dresden, Dresden, Germany*, <sup>2</sup>*smell and tast clinic, department of otorhinolaryngology, TU Dresden, Dresden, Germany*

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#P318

**The Left Versus Right Nostril Odor Detection Test for Early Alzheimer's Disease: Increased Sample Size, Changes with Progression of Alzheimer's, and Performance with other Neurodegenerative Diseases**

Jennifer J. Stamps<sup>1</sup>, Leilani Doty<sup>2</sup>, Christian I. Wade<sup>3</sup>, Kenneth M. Heilman<sup>2</sup>. <sup>1</sup>UF, Department of Neurology; Department of Food Science and Human Nutrition, Gainesville, FL, United States, <sup>2</sup>University of Florida, Department of Neurology, Gainesville, FL, United States, <sup>3</sup>University of Florida, Department of Agriculture and Life Sciences, Gainesville, FL, United States

#P319

**Clinical Profiles Identify Individual Differences in the Impact of Oral Sensory Damage**

Derek J. Snyder, Linda M. Bartoshuk. Food Science and Human Nutrition, University of Florida, Gainesville, FL, United States

#P320

**Evaluation of the Olfactory System after a Mild Traumatic Brain Injury**

Fanny L'Écuyer Giguère<sup>1</sup>, Joelle Robert<sup>1</sup>, Anas Nseir<sup>2</sup>, Jean-Francois Giguère<sup>3</sup>, Louis De Beaumont<sup>3</sup>, Elaine De Guise<sup>1</sup>, Johannes Frasnelli<sup>4</sup>. <sup>1</sup>Departement of Psychology, University of Montreal, Montreal, Qc, Canada, Montreal, Canada, <sup>2</sup>Hopital Santa-Cabrini, Montreal, Quebec, Canada, Montreal, Canada, <sup>3</sup>Hopital Sacre-Coeur, Montreal, Qc, Canada, Montreal, Canada, <sup>4</sup>Department of Anatomy, Université du Québec à Trois-Rivières, Trois-Rivières, Qc, Can, Montreal, Canada

#P321

**Increased Endogenous Brain-derived Neurotrophic Factor does not Rescue Impaired Olfactory Neurogenesis in a Huntington's Disease Mouse Model**

Kathleen Guthrie, Shamayra Smail, Dalbir Bahga, Brittnee McDole. Dept. of Biomedical Science College of Medicine Florida Atlantic University, Boca Raton, FL, United States

#P322

**Localization and Ablation of p75 in the Mouse Olfactory Bulb**

Catherine L. Kaminski, Kelsey Zuk, Thomas Mast. Eastern Michigan University/Department of Biology, Ypsilanti, MI, United States

#P323

**Differential Expression of ZEB2 in Olfactory Bulb Interneurons and Glia**

John W. Cave. Burke Medical Research Institute/Weill Cornell Medical College, White Plains, NY, United States

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- #P324 **Defining a Function of Olfactory Bulb Processing via Comparison of Input and Output**  
Douglas A. Storace<sup>1</sup>, Lawrence B. Cohen<sup>2</sup>. <sup>1</sup>*Yale University Cellular and Molecular Physiology, New Haven, CT, United States*, <sup>2</sup>*Yale University, Cellular and Molecular Physiology, New Haven, CT, United States*
- #P325 **Temporal Response Profiles of Olfactory Bulb Cell Types during Prolonged Odor Stimulation**  
Cameron Ogg, Mounir Bendahmane, Max Fletcher. *University of Tennessee Health Science Center, Memphis, TN, United States*
- #P326 **Intensity Invariant Readout of Olfactory Bulb Output is Facilitated by a Specific Inter-glomerular Circuit**  
Arkarup Banerjee, Arkarup Banerjee, Honggoo Chae, Dinu F. Albeanu. *Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, United States*
- #P327 **The Roles of Glomerular and Granule Cell Layers in Spatial and Temporal Odor Processing**  
 **Don Tucker**  
**Award Finalist** [Francesco Cavarretta<sup>1</sup>, Addolorata Marasco<sup>2</sup>, Michael L. Hines<sup>1</sup>, Gordon M. Shepherd<sup>1</sup>, Michele Migliore<sup>1</sup>. <sup>1</sup>*Yale University School of Medicine/Department of Neuroscience, New Haven, CT, United States*, <sup>2</sup>*University of Naples/Department of Mathematics and Application, Naples, Italy*
- #P328 **Sniffing Strategy as a Clue for Olfactory Discrimination Improvement: Neural Correlates**  
Laura Lefèvre, Nicolas Fourcaud-Trocmé, Samuel Garcia, Marc Thévenet, Belkacem Messaoudi, Nathalie Buonviso. *CRNL, Olfaction: from coding to memory team, CNRS UMR5292 - Inserm U1028 - Lyon 1, Lyon, France*
- #P329 **A Neuroinformatic Pipeline for Investigating Intra-laminar Heterogeneity in the Olfactory Bulb**  
Jason B. Castro, Abigail Leberman. *Bates College, Lewiston, ME, United States*
- #P330 **Effects of Odors on Line Bisection in Teenagers**  
Noah Hirsch<sup>1</sup>, Manisha Chand<sup>2</sup>, Alan R. Hirsch<sup>1</sup>, Sumit Kanwar<sup>2</sup>. <sup>1</sup>*Smell & Taste Treatment and Research Foundation, Chicago, IL, United States*, <sup>2</sup>*Aureus University, School of Medicine, Oranjestad, Aruba*

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- #P331 **Taste-enhancing Effects of Egg Peptides Increased in High-temperature Stored Mayonnaise**  
Takuya Yanagisawa<sup>1</sup>, Satoshi Yoshioka<sup>1</sup>, Chisa Nishimura<sup>1</sup>, Mee-Ra Rhyu<sup>2</sup>. <sup>1</sup>*Kewpie Corporation / R&D Division, Tokyo, Japan*, <sup>2</sup>*Korea Food Research Institute / Division of Metabolism and Functionality Research, Gyeonggi-Do, Korea, Republic of*
- #P332 **Suppression of Bitter Taste by Stearic Acid Microspheres that are Embedded in Edible Taste Strips**  
Gregory S. Smutzer, Sang K. Lee, Kurt-Dale W. Mitchell. *Department of Biology, Temple University, Philadelphia, PA, United States*
- #P333 **Liminal Sensitivity for the Components of Mixtures in Rats: NaCl and Sucrose**  
Ginger D. Blonde, Alan C. Spector. *Department of Psychology & Program in Neuroscience, Florida State University, Tallahassee, FL, United States*
- #P334 **Microstructural Analysis of Water and Sucrose Consumption in Several Inbred Mouse Strains**  
Steven J. St. John<sup>1</sup>, Robert W. Williams<sup>2</sup>, Lu Lu<sup>3</sup>, John D. Boughter, Jr.<sup>2</sup>. <sup>1</sup>*Department of Psychology, Rollins College, Winter Park, FL, United States*, <sup>2</sup>*Department of Anatomy and Neurobiology, University of Tennessee Health Science Center, Memphis, TN, United States*, <sup>3</sup>*Genetics, Genomics, and Informatics, University of Tennessee Health Science Center, Memphis, TN, United States*
- #P335 **Intermittent Home-Cage Access to Alcohol Shifts its Palatability and this Shift is Blocked by Sub-Chronic Nicotine Administration**  
Gregory C. Loney<sup>1</sup>, Hailley A. Pearson<sup>2</sup>, Paul J. Meyer<sup>2</sup>. <sup>1</sup>*Program in Neuroscience, Department of Psychology, University at Buffalo, Buffalo, NY, United States*, <sup>2</sup>*Behavioral Neuroscience, Department of Psychology, University at Buffalo, Buffalo, NY, United States*
- #P336 **Recalled Taste Intensity, Liking and Habitual Intake of Commonly Consumed Foods**  
Marilyn C. Cornelis<sup>1</sup>, Michael G. Tordoff<sup>2</sup>, Ahmed El-Sohehy<sup>3</sup>, Rob M. van Dam<sup>4</sup>. <sup>1</sup>*Northwestern University Feinberg School of Medicine, Chicago, IL, United States*, <sup>2</sup>*Monell Chemical Senses Center, Philadelphia, PA, United States*, <sup>3</sup>*University of Toronto, Toronto, Canada*, <sup>4</sup>*National University of Singapore, Singapore, Singapore*

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- #P337 **Olfactory Bulb Acetylcholine Reinstates Habituated Odor Responses and Drives Behavioral Dishabituation**  
Max L. Fletcher, Cameron Ogg, Mounir Bendahmane, Matthew Ennis. *University of Tennessee Health Science Center, Memphis, TN, United States*
- #P338 **Non-selective Enhancement of Olfactory Bulb Glomerular Responses following Olfactory Fear Conditioning in Awake Behaving Mice**  
Jordan M. Ross, Max L. Fletcher. *University of Tennessee Health Science Center/Department of Anatomy & Neurobiology, Memphis, TN, United States*
- #P339 **Effects of Olfactory Training on Olfactory and Non-olfactory Functions and Brain Structure/Neuroplasticity**  
Syrina Al Ain<sup>1</sup>, Noémie Mercier<sup>1</sup>, Caroline Blais<sup>2</sup>, Jason Steffener<sup>3</sup>, Johannes A. Frasnelli<sup>1</sup>. *<sup>1</sup>Research Chair in Chemosensory Neuroanatomy, Université du Québec à Trois-Rivières, Trois-Rivières, Canada, <sup>2</sup>Université du Québec en Outaouais (UQO), Gatineau, Canada, <sup>3</sup>PERFORM Centre, Concordia University, Montréal, Canada*
- #P340 **Intentional Learning of Odors and Pictures**  
E. Leslie Cameron<sup>1</sup>, EP Köster<sup>2</sup>, Per Møller<sup>3</sup>. *<sup>1</sup>Department of Psychological Science, Kenosha, WI, United States, <sup>2</sup>Helmholtz Institute, University of Utrecht, Utrecht, Netherlands, <sup>3</sup>Department of Food Science, University of Copenhagen, Copenhagen, Denmark*
- #P341 **The scent of the other woman: Impact of female body odor during intrasexual competition**  
Jessica Freiherr<sup>1</sup>, Smiljana Mutic<sup>1</sup>, Annachiara Cavazzana<sup>2</sup>, Marta Rocha<sup>3</sup>, Sandra Soares<sup>3</sup>, Johan Lundström<sup>4</sup>, Valentina Parma<sup>5</sup>. *<sup>1</sup>Diagnostic and Interventional Neuroradiology, RWTH Aachen University, Aachen, Germany, <sup>2</sup>Department of General Psychology, University of Padova, Padova, Italy, <sup>3</sup>Department of Education and Psychology, University of Aveiro, Aveiro, Portugal, <sup>4</sup>Department of Clinical Neuroscience, Karolinska Institutet, Stockholm, Sweden, <sup>5</sup>SISSA, Neuroscience Area, Trieste, Italy*

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# PROGRAM IN DETAIL

FRIDAY

10:30 am – 12:30 pm		<b>SYMPOSIUM</b> <b>Chemosensory Processing in Amygdala Subnuclei: Substrates for Affective Decisions?</b> Chair/Moderator: Michael Meredith <i>Calusa Ballroom 2</i>
10:30 am	#O29	<b>Symposium Overview</b> Michael Meredith. <i>Program in Neuroscience and Dept. Biological Science, Tallahassee, FL, United States</i>
10:40 am	#O30	<b>Sexually Dimorphic Encoding of Social Stimuli by the Medial Amygdala</b> Joseph F. Bergan. <i>University of Massachusetts, Amherst, MA, United States</i>
11:07 am	#O31	<b>A Medial-amygdala/ Intercalated-nucleus Circuit for Modulation of Amygdala Response to Chemosensory Signals and its Subsequent Output</b> Lindsey M. Biggs. <i>Florida State University, Dept of Biological Sciences, Program of Neuroscience, Tallahassee, FL, United States</i>
	 <b>Don Tucker Award Finalist</b>	
11:34 am	#O32	<b>Biological Olfactory Processing in the Amygdala and Reproductive Behavior: The Sheep as a Model</b> Matthieu Keller. <i>Physiologie de la Reproduction &amp; des Comportements, UMR INRA/CNRS/University of Tours, Nouzilly, France</i>
12:01 pm	#O33	<b>Odors Associated with Infant Trauma Rescue Depressive-like Adult Behavior via Changes in Amygdala</b> Regina M. Sullivan. <i>Nathan Kline Institute, New York University Langone School of Medicine, New York, NY, United States</i>
10:30 am – 12:30 pm		<b>SYMPOSIUM</b> <b>Structural Insights Into Chemosensory Receptors</b> Exclusively sponsored by:  Chairs/Organizers: Simone Weyand and Wolfgang Meyerhof <i>Calusa Ballroom 1</i>
10:30 am	#O34	<b>Symposium Overview</b> Simone Weyand. <i>Biochemistry, Cambridge, United Kingdom</i>
10:40 am	#O35	<b>Allosteric Modulators of the Human Sweet Taste Receptors</b> Guy Servant. <i>Senomyx, San Diego, CA, United States</i>
	cont.	

# PROGRAM IN DETAIL

11:10 am	#O36	<b>Structure, Function and Genetics of the Sweet Taste Receptor</b> Peihua Jiang. <i>Monell Chemical Senses Center, Philadelphia, PA, United States</i>
11:40 am	#O37	<b>Predicting Human Odor Perception from Olfactory Receptor Function</b> Joel D. Mainland. <i>Monell Chemical Senses Center, Philadelphia, PA, United States</i>
Noon	#O38	<b>Cellular and Molecular Basis for Gustatory Detection of Food Texture and Toxins in <i>Drosophila</i></b> Craig Montell, Yali V. Zhang, Chao Liu. <i>University of California, Santa Barbara, Santa Barbara, CA, United States</i>
12:30 – 1:30 pm		<b>ACHEMS BUSINESS MEETING</b> <i>Calusa Ballroom 1</i> Get involved! Join us for reports from the society leaders on the state of the Association. All members welcome and encouraged to attend.
2 – 5 pm		<b>SOCIAL EVENT</b> <b>AChemS Taste vs. Smell Softball Game</b> <i>Hammond Stadium/Century Link Sports Complex (offsite)</i> The tradition returns! Grab your glove and carpool over to the Hammond Stadium (the advanced A Affiliate of the Minnesota Twins!) for a little friendly competition. No pre-registration is required; carpool sign up is available at Registration. Bats and balls will be provided. Be sure to bring water!

FRIDAY



# PROGRAM IN DETAIL

FRIDAY

4 – 5 pm

## SPECIAL EVENT

### THE ACHEMS JOURNAL CLUB

**Charlotte Mistretta, Archives Committee Chair**

Moderators: Charlotte Mistretta and David Hill

*Calusa Ballroom 1*

Inaugural from the History Committee for  
an Annual Event to Present

### **Historical Contexts for Current Chemosensory Research**

#### ***Studying the Peripheral Taste Neuron: Then and Now***

To celebrate the **75th Anniversary** of Carl Pfaffmann's paper:  
'Gustatory afferent impulses' *J. Cellular and Comparative  
Physiology* 17(2): 243-258.1941.

And, coming to the present with discussion of current technical  
approaches to record from geniculate ganglion neurons, papers to  
include: Barretto et al, "The neural representation of taste quality  
at the periphery," *Nature* 2014; and Wu et al, "Breadth of tuning  
in taste afferent neurons varies with stimulus strength," *Nature  
Communications* 2015.

*How has the chemosensory field asked questions about, listened to,  
and analyzed single and ensemble peripheral taste neuron data over  
75 years?*

Junior and senior members of the AChemS community will  
present and discuss the papers. All are encouraged to attend.

Presenting and summarizing papers: Rolf Skyberg, PhD  
Candidate, University of Virginia, and John D. Boughter, PhD,  
University of Tennessee Health Science Center.

Copies of reading materials will be available at the  
Registration Desk.

5 – 6:30 pm

## ACHEMS CAREER NETWORKING SOCIAL

Chair/Organizer: Robin Dando

*Estero Ballroom Foyer and Terrace*

The social is designed for all student and post doc attendees. The  
AChemS Career Networking Social is designed for networking  
and discussion about topics and issues important to junior  
chemosensory scientists. Back by Popular Demand: Topic Tables  
will be featured again this year at the social. This year's topics will  
include Funding, Industry Research Careers, Post-Doc Experience,  
Interviewing Tips, Careers in Science for Minorities, and more.  
New this year! The social will flow between the terrace and the  
foyer for those who wish to remain out of the sun!



# PROGRAM IN DETAIL

7 – 9 pm		<b>PRESIDENTIAL SYMPOSIUM</b> Chair/Organizer: Susan Travers <i>Calusa Ballroom 1</i> Presentations by the 2016 AChemS Merit Awards recipients.
7 pm	#O.01	<b>Symposium Overview</b> Susan Travers <i>AChemS President, The Ohio State University, Columbus, OH, United States</i>
7:10 pm	#O39	<b>Using Psychophysics to Understand Perception of Real Foods</b> John Hayes, Recipient of the Barry Jacobs Memorial Award for Research in the Psychophysics of Human Taste and Smell <i>Pennsylvania State University, University Park, PA, United States</i>
7:35 pm	#O40	<b>What is the Olfactory Bulb for?</b> John McGann, Recipient of the AChemS Young Investigator Award for Research in Olfaction <i>Rutgers University, Piscataway, NJ, United States</i>
8 pm	#O41	<b>Bitter Taste Perception: Genes, Toxins, and Evolution</b> Stephen Wooding, Recipient of the Ajinomoto Award for Young Investigators in Gustation <i>University of California Merced, Merced, CA, United States</i>
8:25 pm	#O42	<b>A Journey Towards Understanding Molecular Mechanisms Underlying Synaptic Activity-dependent Regulation of the Olfactory Bulb Dopamine Phenotype</b> Harriet Baker, Recipient of the Max Mozell Award for Outstanding Achievement in the Chemical Senses <i>Burke Medical Research Institute, White Plains, NY, The Feil Family Brain and Mind Research Institute of the Weill Cornell Medical College, New York, NY, United States</i> Presented by John Cave <i>Weill Cornell Medical College, New York, NY, United States</i>

FRIDAY

# PROGRAM IN DETAIL

## SATURDAY, APRIL 23, 2016

7:30 am – 12:30 pm  
6:30 – 7:30 pm

**REGISTRATION**  
*Calusa Ballroom Foyer*

7:30 – 9 am

**CONTINENTAL BREAKFAST**  
*Estero Ballroom Foyer*



SATURDAY

# PROGRAM IN DETAIL POSTER SESSION IV

**SATURDAY  
8 – 10:30 AM**

8 – 10:30 am

## POSTER SESSION IV

*Estero Ballroom*

#P401

### **Olfactory Function in Patients with Hyposmia Compared to Healthy Subjects**

Robert Pellegrino<sup>1</sup>, Antje Hähner<sup>1</sup>, Viola Bojanowski<sup>1</sup>, Cornelia Hummel<sup>1</sup>, Johannes Gerber<sup>2</sup>, Thomas Hummel<sup>1</sup>. <sup>1</sup>*Smell & Taste Clinic, TU Dresden, Dresden, Germany*, <sup>2</sup>*Department of Neuroradiology, TU Dresden, Dresden, Germany*

#P402

### **Functional Deterioration of Olfactory Cortex in Early Parkinson's Disease**

Jianli Wang<sup>1</sup>, Thyagarajan Subramanian<sup>2</sup>, Zachary Mosher<sup>1</sup>, Qing X. Yang<sup>1</sup>. <sup>1</sup>*Pennsylvania State University College of Medicine/Radiology, Hershey, PA, United States*, <sup>2</sup>*Pennsylvania State University College of Medicine/Neurology, Hershey, PA, United States*

#P403

### **A Longitudinal Study of Olfactory Function in Patients with Parkinson's Disease**

Corinne A. Hasler<sup>1</sup>, Antje Welge-Lüssen<sup>2</sup>, Lisa Klingelhöfer<sup>3</sup>, Moritz D. Brandt<sup>3</sup>, Thomas Hummel<sup>1</sup>, Antje Hähner<sup>1</sup>. <sup>1</sup>*Smell & Taste Clinic, Department of Otorhinolaryngology, TU Dresden, Dresden, Germany*, <sup>2</sup>*Department of Otorhinolaryngology, University Hospital of Basel, Basel, Switzerland*, <sup>3</sup>*Department of Neurology, TU Dresden, Dresden, Germany*

#P404

### **Family-based Association Analysis Identifies Candidate Causal Genes for Congenital Anosmia**

Casey Trimmer<sup>1</sup>, Nicolle R. Murphy<sup>1</sup>, Darren W. Logan<sup>2</sup>, Joel D. Mainland<sup>1</sup>. <sup>1</sup>*Monell Chemical Senses Center, Philadelphia, PA, United States*, <sup>2</sup>*Wellcome Trust Sanger Institute, Hinxton, United Kingdom*

#P405

### **Olfactory Training and Cognition in Parkinson's Disease**

Antje Hähner<sup>1</sup>, Claudio Rauber<sup>1</sup>, Birte-Antina Wegener<sup>1</sup>, Ilona Croy<sup>2</sup>, Thomas Hummel<sup>1</sup>. <sup>1</sup>*Smell & Taste Clinic, Department of Otorhinolaryngology, TU Dresden, Dresden, Germany*, <sup>2</sup>*Department of Psychosomatics, TU Dresden, Dresden, Germany*

SATURDAY

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# PROGRAM IN DETAIL POSTER SESSION IV

**SATURDAY  
8 – 10:30 AM**

SATURDAY

#P406

## **Taste Function in Early Stage Treated and Untreated Parkinson's Disease**

Richard L. Doty<sup>1</sup>, Michael T. Nsoesi<sup>2</sup>, Inna Chung<sup>1</sup>, Allen Osman<sup>3</sup>, Ian Pawasarat<sup>4</sup>, Julie Caulfield<sup>4</sup>, Howard Hurtig<sup>5</sup>, Jonathan Silas<sup>6</sup>, Jacob Dubroff<sup>7</sup>, John E. Duda<sup>3</sup>, Gui-shuang Ying<sup>8</sup>, Hakan Tekeli<sup>9</sup>, Fidas E. Leon-Sarmiento<sup>4</sup>. <sup>1</sup>*Smell & Taste Center, University of Pennsylvania, Philadelphia, PA, United States*, <sup>2</sup>*Department of Biology/Earham College, Richmond, VA, United States*, <sup>3</sup>*Department of Psychology, University of Miami, Miami, FL, United States*, <sup>4</sup>*Smell and Taste Center, University of Pennsylvania, Philadelphia, PA, United States*, <sup>5</sup>*Department of Neurology, University of Pennsylvania, Philadelphia, PA, United States*, <sup>6</sup>*Department of Psychology, University of Roehampton, London, United Kingdom*, <sup>7</sup>*Department of Radiology, University of Pennsylvania, Philadelphia, PA, United States*, <sup>8</sup>*Center for Clinical Epidemiology and Biostatistics, University of Pennsylvania, Philadelphia, PA, United States*, <sup>9</sup>*Department of Neurology, Haydarpasa Training Hospital of GATA, Istanbul, Turkey*

#P407

## **TAS2R38 Genotype-Associated Alterations in Paranasal Sinus Microbiota**

Vijay R. Ramakrishnan<sup>1</sup>, Daniel N. Frank<sup>2</sup>. <sup>1</sup>*University of Colorado School of Medicine, Department of Otolaryngology, Aurora, CO, United States*, <sup>2</sup>*University of Colorado School of Medicine, Division of Infectious Diseases, Aurora, CO, United States*

#P408

## **Taste Bud Density and Composition of Saliva in Patients Suffering from Taste Disorders Compared to Healthy Individuals**

Franz Schoeps<sup>1</sup>, Antje Haehner<sup>1</sup>, Hélène Brignot<sup>2</sup>, Fabrice Neiers<sup>2</sup>, Gilles Feron<sup>2</sup>, Thomas Hummel<sup>1</sup>. <sup>1</sup>*Smell and Taste Clinic, Dept. of ORL, TU Dresden, Dresden, Germany*, <sup>2</sup>*INRA-CSGA, Dijon, France*

#P409

## **AP1 Transcription Factors Regulate Taste Cell Function and Renewal**

Kathryn Medler<sup>1</sup>, Jayasha Shandilya<sup>1</sup>, Tapan K. Nayak<sup>2</sup>, Yankun Gao<sup>1</sup>, Stefan Roberts<sup>1</sup>. <sup>1</sup>*University at Buffalo Dept of Biological Sciences, Buffalo, NY, United States*, <sup>2</sup>*University at Buffalo Dept of Physiology and Biophysics, Buffalo, NY, United States*

#P410

## **Using Cyclophosphamide to Illuminate the Role of Sox2 in the Adult Taste System**

David C. Harris<sup>1</sup>, Diane E. Morgan<sup>2</sup>, Eugene R. Delay<sup>3</sup>. <sup>1</sup>*University of Vermont Neuroscience Graduate Program, Burlington, VT, United States*, <sup>2</sup>*University of Vermont, Burlington, VT, United States*, <sup>3</sup>*University of Vermont Biology, Burlington, VT, United States*

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# PROGRAM IN DETAIL POSTER SESSION IV

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- #P411      **Long-term Exposure to Taste Stimuli Up-regulates PLC $\beta$ 2 Expression in Mouse Taste Buds**  
Ashkan Shahbandi, Ezen Choo, Robin Dando. *Cornell University, Food Science, Ithaca, NY, United States*
- #P412      **Cessation of Hedgehog Pathway Blockade Leads to Restoration of Taste Responses Despite Incomplete Taste Organ Recovery**  
Archana Kumari<sup>1</sup>, Alexandre Ermilov<sup>2</sup>, Libo Li<sup>1</sup>, Benjamin L. Allen<sup>3</sup>, Robert M. Bradley<sup>1</sup>, Andrzej A. Dlugosz<sup>2</sup>, Charlotte M. Mistretta<sup>1</sup>.  
<sup>1</sup>Dept. of Biologic and Materials Sciences, School of Dentistry, University of Michigan, Ann Arbor, MI, United States, <sup>2</sup>Department of Dermatology, Medical School, University of Michigan, Ann Arbor, MI, United States, <sup>3</sup>Department of Cell and Developmental Biology, Medical School, University of Michigan, Ann Arbor, MI, United States
- #P413      **Injury-Induced Plasticity of Taste Nerve Terminal Fields in the Mouse NST Produced by an Initial Chorda Tympani Nerve Cut at Adulthood**  
Chengsan Sun, David L. Hill. *University of Virginia/Psychology, Charlottesville, VA, United States*
- #P414      **Self-Renewal in Globose Basal Cell Cultures Reveals Bmi1 Activity in the Adult Olfactory Epithelium**  
Rhea Choi<sup>1</sup>, Garrett M. Goss<sup>2</sup>, Nirupa Chaudhari<sup>3</sup>, Bradley J. Goldstein<sup>2</sup>. <sup>1</sup>University of Miami Miller School of Medicine, MD/PhD Program, Miami, FL, United States, <sup>2</sup>University of Miami Miller School of Medicine, Department of Otolaryngology and Interdisciplinary Stem Cell Institute, Miami, FL, United States, <sup>3</sup>University of Miami Miller School of Medicine, Department of Physiology and Biophysics, Miami, FL, United States
- #P415      **Mucin Isoform Expression in the Olfactory Epithelium of Mice and Humans**  
Elizabeth Gould<sup>1</sup>, Christopher Kennel<sup>2</sup>, Vijay Ramakrishnan<sup>2</sup>, Wendy Macklin<sup>3</sup>, Diego Restrepo<sup>4</sup>. <sup>1</sup>Neuroscience Program, University of Colorado Anschutz Medical Campus, Aurora, CO, United States, <sup>2</sup>Department of Otolaryngology, University of Colorado Anschutz Medical Campus, Aurora, CO, United States, <sup>3</sup>Cellular and Developmental Biology, University of Colorado Medical Campus, Aurora, CO, United States, <sup>4</sup>Cellular and Developmental Biology, University of Colorado Anschutz Medical Campus, Aurora, CO, United States

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- #P416 **Three-layer Regulation Leads to Monoallelic and Diverse Olfactory Receptor Expression**  
Jianhua Xing<sup>1</sup>, Xiao-jun Tian<sup>1</sup>, Hang Zhang<sup>2</sup>, Jens Sannerud<sup>3</sup>.  
<sup>1</sup>University of Pittsburgh/Department of Computational and Systems Biology, Pittsburgh, PA, United States, <sup>2</sup>Virginia Tech/ Genetics, Bioinformatics, and Computational Biology Program, Blacksburg, VA, United States, <sup>3</sup>University of Pittsburgh/ The TECBio Research Experiences for Undergraduates Program, Pittsburgh, PA, United States
- #P417 **Refinement of Olfactory Receptor Transcribed Regions Improves the Accuracy of In Vivo Receptor Deorphanization**  
Kentaro Ikegami<sup>1</sup>, Yue Jiang<sup>2</sup>, Ming-Shan Chien<sup>2</sup>, Masafumi Yohda<sup>3</sup>, Hiroaki Matsunami<sup>2</sup>. <sup>1</sup>Tokyo Univ. of Agriculture and Tech., Duke University Medical Center, Koganei, Japan, <sup>2</sup>Duke University Medical Center / Department of Molecular Genetics and Microbiology, Durham, NC, United States, <sup>3</sup>Tokyo Univ. of Agriculture and Tech. / Department of Biotechnology and Life Science, Koganei, Japan
- #P418 **Structure-function of Odorant and Sweet-taste Receptors based on Molecular Modeling**  
Jerome Golebiowski<sup>1</sup>, Jean-Baptiste Cheron<sup>2</sup>, Claire A. de March<sup>3</sup>, Sebastien Fiorucci<sup>2</sup>, Serge Antonczak<sup>2</sup>. <sup>1</sup>Institute of Chemistry - Nice University Nice Sophia Antipolis, Nice, France, <sup>2</sup>ICN, nice, France, <sup>3</sup>Duke Univ., Durham, NC, United States
- #P419 **Predicting Olfactory Perception from Chemical Structure using the DREAM Olfaction Challenge Dataset**  
Yusuke Ihara<sup>1</sup>, Wen Yu Chung<sup>2</sup>, Joel D. Mainland<sup>2</sup>. <sup>1</sup>Ajinomoto Co., Inc. / Monell Chemical Senses Center, Philadelphia, PA, United States, <sup>2</sup>Monell Chemical Senses Center, Philadelphia, PA, United States
- #P420 **Sweet Modifications by Miracle Fruit and Gymnema Sylvestre Affect Flavor**  
Linda M. Bartoshuk<sup>1</sup>, Thomas A. Colquhoun<sup>2</sup>, Shawn Dotson<sup>3</sup>, Sonia D. Hudson<sup>4</sup>, Asli Z. Odabasi<sup>1</sup>, Lorenzo Puentes<sup>5</sup>, Charles A. Sims<sup>6</sup>, Derek J. Snyder<sup>6</sup>, Jennifer J. Stamps<sup>6</sup>. <sup>1</sup>University of Florida/Food Science and Human Nutrition, Gainesville, FL, United States, <sup>2</sup>University of Florida/ Department of Environmental Horticulture, Gainesville, FL, United States, <sup>3</sup>University of Florida/Neuroscience, Gainesville, FL, United States, <sup>4</sup>FDA, Center for Food Safety and Applied Nutrition, College Park, MD, United States, <sup>5</sup>Merieux Nutrisciences Company, Gainesville, FL, United States, <sup>6</sup>UF/Food Science and Human Nutrition, Gainesville, FL, United States

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## PROGRAM IN DETAIL POSTER SESSION IV

**SATURDAY  
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- #P421      **Detection of Glucose Oligomers by Humans is Not through the Human Sweet Taste Receptor**  
Juyun Lim<sup>1</sup>, Trina Lapis<sup>1</sup>, HeeJin Son<sup>2</sup>, MeeRa Rhyu<sup>2</sup>, Juyun Lim<sup>1</sup>.  
*<sup>1</sup>Department of Food Science and Technology, Corvallis, OR, United States, <sup>2</sup>Korea Food Research Institute, Sunghnam, Korea, Republic of*
- #P422      **Interactive Effects of PTC Sensitivity, Papillae Density, Food Neophobia and Food Choice**  
Megan Randolph, Jessica Pontis, Rebecca Brown, Bryan Raudenbush.  
*Wheeling Jesuit University Department of Psychology, Wheeling, WV, United States*
- #P423      **Sensory-specific Satiety Modulates Neural Representations of Expected Food Odor Rewards in Humans**  
James D. Howard, Thorsten Kahnt. *Northwestern University, Department of Neurology, Chicago, IL, United States*
- #P424      **Modulation of the Sweet Water Taste by Sweeteners**  
Barry Green<sup>1</sup>, Cynthia Alvarado<sup>2</sup>, Danielle Nachtigal<sup>3</sup>. *<sup>1</sup>The John B. Pierce Laboratory and Yale School of Medicine, New Haven, CT, United States, <sup>2</sup>Purdue University, West Lafayette, IN, United States, <sup>3</sup>The John B. Pierce Laboratory, New Haven, CT, United States*
- #P425      **Female Rats Do Not Discriminate Sucrose from Water as Accurately as Male Rats Despite Showing Similar Asymptotic Performance and Detection Thresholds**  
Allison C. Matia<sup>1</sup>, Sarita K. Hira<sup>2</sup>, Cheryl Novak<sup>1</sup>, Clare M. Mathes<sup>1</sup>.  
*<sup>1</sup>Department of Psychology and Program in Neuroscience, Baldwin Wallace University, Berea, OH, United States, <sup>2</sup>Department of Biology and Program in Neuroscience, Baldwin Wallace University, Berea, OH, United States*
- #P426      **Individual Differences in Psychophysical Functions for Glucose, Sucralose, and Rebaudioside A**  
Paul M. Wise<sup>1</sup>, Paul A. Breslin<sup>2</sup>. *<sup>1</sup>Monell Chemical Senses Center, Philadelphia, PA, United States, <sup>2</sup>Rutgers University, Department of Nutritional Sciences, New Brunswick, NJ, United States*
- #P427      **A New Paradigm for Human Taste Measurement**  
Kyle Palmer, Daniel Long, Mariah Stewart. *Opertech Bio, Inc., Philadelphia, PA, United States*

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# PROGRAM IN DETAIL POSTER SESSION IV

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**SATURDAY**

- #P428      **Simple and Affordable Microcontroller-based Platforms for Quantifying Odor and Taste Preferences in Rodents**  
Daniel W. Wesson<sup>1</sup>, Sonum Jagetia<sup>2</sup>, Anthony Yu<sup>2</sup>, Kavya Pai<sup>2</sup>.  
*<sup>1</sup>Case Western Reserve University, Depts of Neurosciences and Biology, Cleveland, OH, United States, <sup>2</sup>Case Western Reserve University, Dept of Neurosciences, Cleveland, OH, United States*
- #P429      **Consistency of Odor Perception: Comparison by the Number of Components of the Odor Mixtures**  
Nao Takayama<sup>1</sup>, Saho Ayabe-Kanamura<sup>2</sup>. *<sup>1</sup>Graduate School of Comprehensive Human Sciences, University of Tsukuba, Tsukuba, Japan, <sup>2</sup>Faculty of Human Sciences, University of Tsukuba, Tsukuba, Japan*
- #P430      **What is the Functional Significance of Odor Response Maps in the Olfactory Epithelium? A Critical Test of the Sorption Hypothesis in the Mouse**  
David M. Coppola<sup>1</sup>, Brittaney Ritchie<sup>1</sup>, Brent A. Craven<sup>2</sup>. *<sup>1</sup>Randolph-Macon College / Biology, Ashland, VA, United States, <sup>2</sup>The Pennsylvania State University / Department of Mechanical and Nuclear Engineering, State College, PA, United States*
- #P431      **Smelling is Telling: Human Olfactory Cues Influence Interpersonal Judgments**  
Jessica M. Gaby, Vivian Zayas. *Cornell University, Ithaca, NY, United States*
- #P432      **Stranger's Body Odor Selectively Reduces Response Time to Threatening Faces**  
Valentina Parma<sup>1</sup>, Annachiara Cavazzana<sup>2</sup>, Johan N. Lundström<sup>3</sup>.  
*<sup>1</sup>SISSA - Neuroscience Area, Trieste, Italy, <sup>2</sup>University of Padova, Department of General Psychology, Padova, Italy, <sup>3</sup>Karolinska Institutet, Department of Clinical Neuroscience, Stockholm, Sweden*
- #P433      **Increased Sensitivity to L-Felinine in Mice Correlated with Elevated Fos- Immunoreactivity in the Accessory Olfactory Bulb**  
Vera V. Voznessenskaya, Ilya G. Kvasha, Tatiana K. Laktionova, Maria A. Klyuchnikova. *A.N.Severtsov Institute of Ecology & Evolution, Moscow, Russian Federation*

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# PROGRAM IN DETAIL POSTER SESSION IV

**SATURDAY  
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#P434

## **Modulation of Medial Amygdala Circuits Involved in Chemosignal Processing**

 **Don Tucker  
Award Finalist**

Lindsey M. Biggs, Michael Meredith. *Florida State University, Program in Neuroscience and Dept. Biological Science, Tallahassee, FL, United States*

#P435

## **Effects of Congruent vs. Incongruent Product Scent Administration on Online Purchasing Behavior**

Mariah Cottrill, Madeline Holt, Skylar Patten, Emily Robinson, Bryan Raudenbush. *Wheeling Jesuit University Department of Psychology, Wheeling, WV, United States*

#P436

## **The Association of Weight Change in College Freshmen with Taste Change**

Corinna A. Noel<sup>1</sup>, Patricia A. Cassano<sup>2</sup>, Robin Dando<sup>1</sup>. <sup>1</sup>*Cornell University Department of Food Science, Ithaca, NY, United States*, <sup>2</sup>*Cornell University Division of Nutritional Sciences, Ithaca, NY, United States*

#P437

## **Effects of Gastric Bypass Surgery on Oral Fat Preference and Lingual Fatty Acid Receptor Expression in High Fat Diet-Induced Obese Female Rats**

Andras Hajnal<sup>1</sup>, Ann M. Rogers<sup>2</sup>, Krzysztof Czaja<sup>3</sup>, Patricia M. Di Lorenzo<sup>4</sup>, Stefany D. Primeaux<sup>5</sup>. <sup>1</sup>*Penn State Univ., Coll. of Medicine, Dept. of Neural & Behavioral Sciences, Hershey, PA, United States*, <sup>2</sup>*Penn State Univ., Coll. of Medicine, Dept. of Surgery, Hershey, PA, United States*, <sup>3</sup>*University of Georgia Athens, Dept. of Veterinary Biosci & Diagnostic Imaging, Athens, GA, United States*, <sup>4</sup>*Binghamton University, Dept. of Psychology, Binghamton, NY, United States*, <sup>5</sup>*LSU Health Sciences Center, Dept. of Physiology, New Orleans, LA, United States*

#P438

## **Taste Responses in the Nucleus of Solitary Tract of Freely Licking Rats with Roux-en-Y Gastric Bypass Surgery**

Olga D. Escanilla<sup>1</sup>, Michael S. Weiss<sup>2</sup>, Julien D. Deshler<sup>2</sup>, Andras Hajnal<sup>3</sup>, Krzysztof Czaja<sup>4</sup>, Patricia M. Di Lorenzo<sup>1</sup>. <sup>1</sup>*Binghamton University/Dept. of Psychology, Binghamton, NY, United States*, <sup>2</sup>*Binghamton University/Dept of Psychology, Binghamton, NY, United States*, <sup>3</sup>*Pennsylvania State University/Dept. of Neural and Behavioral Sciences, Hershey, PA, United States*, <sup>4</sup>*Univ. of Georgia Athens/Dept. of Veterinary Biosciences & Diagnostic Imaging, Athens, GA, United States*

**SATURDAY**

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# PROGRAM IN DETAIL POSTER SESSION IV

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- #P439 **Profound Taste/Nutrient Preference Differences between CAST/Ei vs. C57BL/6 Mice**  
Anthony Sclafani, Soner Vural, Karen Ackroff. *Brooklyn College of CUNY/Psychology, Brooklyn, NY, United States*
- #P440 **Piriform Cortex Response to Milkshake is Negatively Associated with Saturated Fat Intake**  
 **Don Tucker Award Finalist** Mary V. Burke<sup>1</sup>, Annika J. Tanke<sup>2</sup>, Dana M. Small<sup>3</sup>. <sup>1</sup>*Yale University/ Interdepartmental Neuroscience Program; John B. Pierce Laboratory, New Haven, CT, United States*, <sup>2</sup>*Leiden University/Biomedical Sciences, Leiden, Netherlands*, <sup>3</sup>*Yale University/Department of Psychiatry; John B. Pierce Laboratory, New Haven, CT, United States*
- #P441 **Insulin Modulates Neural Activity of Anterior Piriform Cortex**  
Anan Li, Yang Zhou, Dejuan Wang, Changcheng Sun, Anan Li. *Xuzhou Medical College, Xuzhou, China*
- #P442 **Gustatory Information Processing in the Nucleus of the Solitary Tract in the Awake, Freely Licking, Diet-induced Obese Rat**  
Patricia M. Di Lorenzo<sup>1</sup>, Michael S. Weiss<sup>2</sup>, Andras Hajnal<sup>3</sup>, Krzysztof Czaja<sup>4</sup>. <sup>1</sup>*Department of Psychology, Binghamton University, Binghamton, NY, United States*, <sup>2</sup>*Dept. of Psychology, Binghamton University, Binghamton, NY, United States*, <sup>3</sup>*Dept of Neural and Behavioral Sci, The Pennsylvania State Univ., College of Medicine, Hershey, PA, United States*, <sup>4</sup>*Dept. of Veterinary Biosciences & Diagnostic Imaging, Univ. of Georgia Athens, Athens, GA, United States*



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**SATURDAY**

# PROGRAM IN DETAIL

10:30 am – Noon	<b>ORAL PRESENTATIONS</b> <b>Polak Young Investigator Award Recipients</b> Chair/Organizer: Linda Barlow <i>Calusa Ballroom 1</i>	
10:30 am	#O43  <b>Polak Awardee</b>	<b>Transduction of a Sense in the Gut</b> Diego V. Bohórquez <sup>1</sup> , Melanie M. Kaelberer <sup>2</sup> . <sup>1</sup> <i>Duke University/ Medicine and Neurobiology, Durham, NC, United States</i> , <sup>2</sup> <i>Duke University/Medicine, Durham, NC, United States</i>
10:50 am	#O44  <b>Polak Awardee</b>	<b>NPY-like Regulation of Host-Seeking Suppression in <i>Aedes aegypti</i> Mosquitoes</b> Laura B. Duvall <sup>1</sup> , Leslie B. Vosshall <sup>2</sup> . <sup>1</sup> <i>The Rockefeller University, Laboratory of Neurogenetics and Behavior, New York, NY, United States</i> , <sup>2</sup> <i>The Rockefeller University, Laboratory of Neurogenetics and Behavior, HHMI, New York, NY, United States</i>
11:10 am	#O45  <b>Polak Awardee</b>	<b>Podoplanin (PDPN) Plays Important Roles in the Development of Taste Organs in Mice</b> Nandakumar Venkatesan <sup>1</sup> , Masako Toda <sup>2</sup> , Lynda Bonewald <sup>3</sup> , Yuji Mishina <sup>2</sup> , Hong-Xiang Liu <sup>1</sup> . <sup>1</sup> <i>University of Georgia, Athens, GA, United States</i> , <sup>2</sup> <i>University of Michigan, Ann Arbor, MI, United States</i> , <sup>3</sup> <i>University of Missouri - Kansas City, Kansas City, MO, United States</i>
11:30 am	#O46  <b>Polak Awardee</b>	<b>Morphological Diversity of Taste Nerve Fibers in the Mouse Tongue</b> Tao Huang <sup>1</sup> , Robin F. Krimm. <i>Dept. Anatomical Sciences and Neurobiology, University of Louisville Medical School, Louisville, KY, United States</i>
11:50 am	#O47  <b>Polak Awardee</b>	<b>Effective Connectivity of the Insular Gustatory Cortex</b> Emilia Iannilli <sup>1</sup> , Paul Bovelet, Thomas Hummel. <i>Interdisciplinary Center "Smell &amp; Taste", Dep. of Otorhinolaryngology, TU Dresden, Dresden, Germany</i>
12:10 pm	#O48  <b>Polak Awardee</b>	<b>The Interaction Effect of Estradiol Concentration and Intake Duration on Olfactory Performance Levels in Oral Contraceptive Users</b> Veronika Schöpf <sup>1</sup> , Iris Ohrenberger <sup>2</sup> , Kathrin Kollndorfer <sup>2</sup> . <sup>1</sup> <i>Institute of Psychology, University of Graz, Graz, Austria</i> , <sup>2</sup> <i>Dept of Biomedical Imaging and Image-guided Therapy, Medical University of Vienna, Vienna, Austria</i>

SATURDAY

# PROGRAM IN DETAIL

2 – 4 pm		<b>INDUSTRY SYMPOSIUM</b> <b>Chemosensory Model Systems</b> Chair/Organizer: Chris Simons <i>Calusa Ballroom 1</i>
2 pm	#O49	<b>Symposium Overview</b> Christopher T. Simons. <i>The Ohio State University, Columbus, OH, United States</i>
	#O49.1	<b>Cell-based Screening Assays</b> Wolfgang Meyerhof. <i>Department of Molecular Genetics, German Institute of Human Nutrition Potsdam-Rehbruecke</i>
	#O49.2	<b>Animal Behavioral Models</b> Alan Spector. <i>Department of Psychology, Florida State University</i>
	#O49.3	<b>Electrode-based Systems including the Electronic Tongue and Electronic Nose</b> Punyatoya Mohapatra. <i>AFB International</i>

4 – 5 pm	#O50	<b>SPECIAL LECTURE</b> <b>Sometimes You Feel It, Sometimes You Don't</b> Christophe Laudemiel. <i>DreamAir, New York City, NY, United States</i> Introduction: Joel Mainland. <i>Monell Chemical Senses Center, Philadelphia, PA, United States</i> <i>Calusa Ballroom 1</i>
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6 – 8 pm		<b>SYMPOSIUM</b> <b>Predicting Olfactory Perception</b> Chair/Organizer: Leslie Vosshall <i>Calusa Ballroom 1</i>
6 pm	#O51	<b>Symposium Overview</b> Leslie B. Vosshall. <i>HHMI-The Rockefeller University, New York, NY, United States</i>
6:10 pm	#O52	<b>Toward a Solution of the Stimulus Percept Problem in Olfaction</b> Leslie B. Vosshall <sup>1</sup> , Andreas Keller <sup>2</sup> . <i><sup>1</sup>HHMI-The Rockefeller University, New York, NY, United States, <sup>2</sup>The Rockefeller University, New York, NY, United States</i>
6:30 pm	#O53	<b>Prediction of Personalized Olfaction Response</b> Bharat Panwar, Yuanfang Guan. <i>Department of Computational Medicine and Bioinformatics, University of Michigan, Ann Arbor, MI, United States</i>
<i>cont.</i>		

SATURDAY

# PROGRAM IN DETAIL

7:10 pm	#O54	<b>From Shape to Smell: Predicting Odor Descriptors from Molecular Features</b> Richard C. Gerkin. <i>Arizona State University, School of Life Sciences, Tempe, AZ, United States</i>
7:40 pm	#O55	<b>Personalized Predictions of Human Olfaction: A Community Effort to Accurately Infer Odor Perception from Molecular Structures</b> Pablo Meyer <sup>1</sup> , Guillermo Cecchi <sup>1</sup> , Gustavo Stolovitzky <sup>2</sup> , Amit Durhandar <sup>2</sup> , Raquel Norel <sup>2</sup> , Leslie VossHall <sup>3</sup> , Andreas Keller <sup>3</sup> . <sup>1</sup> IBM Computational Biology Center, Yorktown, NY, United States, <sup>2</sup> IBM CBC, Yorktown, NY, United States, <sup>3</sup> Rockefeller University, New York, NY, United States
6 – 8 pm		<b>SYMPOSIUM</b> <b>A Modern Take on CNS Gustatory Processing: From Primary Nerve Input to the Driving of Consumption Decisions</b> Chair/Organizer: Don Katz <i>Calusa Ballroom 2</i>
6 pm	#O56	<b>From Taste Buds To The Hindbrain: In Search of a Rosetta Stone</b> Nirupa Chaudhari, An Wu, Stephen D. Roper. <i>Dept of Physiology, Program in Neurosciences, Univ of Miami Miller Sch of Medicine, Miami, FL, United States</i>
6:30 pm	#O57	<b>Temporal Coding of Taste in the Brainstem: What Is It Good For?</b> Patricia M. Di Lorenzo <sup>1</sup> , Joshua D. Sammons <sup>1</sup> , Jonathan D. Victor <sup>2</sup> . <sup>1</sup> <i>Department of Psychology, Binghamton University, Binghamton, NY, United States, </i> <sup>2</sup> <i>Brain and Mind Research Institute, Weill Cornell Medical College, New York, NY, United States</i>
7 pm	#O58	<b>Spatiotemporal Coding of Individual Chemicals by the Gustatory System</b> Sam Reiter. <i>Max Planck Institute for Brain Research, Frankfurt, Germany</i>
7:20 pm	#O59	<b>State Transitions in Gustatory Cortex during Taste Processing: Electrophysiological Evidence and Computational Models</b> Paul Miller <sup>1</sup> , Donald B. Katz <sup>2</sup> . <sup>1</sup> <i>Brandeis University/Department of Biology, Waltham, MA, United States, </i> <sup>2</sup> <i>Brandeis University/Department of Psychology, Waltham, MA, United States</i>

SATURDAY

## PROGRAM IN DETAIL POSTER SESSION V

**SATURDAY  
8 – 10:30 PM**

8 – 10:30 pm

### POSTER SESSION V

*Estero Ballroom*

#P501

#### **The Transcriptional Factor Ap2e Controls the Expression of the V2r Vomeronasal Receptor Superfamily in Mouse**

Paolo E. Forni, Jennifer M. Lin, Ed Zandro Taroc, Aparna Prasad, Jesus Frias, Paolo E. Forni. *University at Albany, Department of Biological Sciences, Albany, NY, United States*

#P502

#### **The Neuronal Recognition Molecule, Neurexin 1, a Potential Coordinator of Innervation in Taste Buds**

Damian Hernandez<sup>1</sup>, Gennady Dvoryanchikov<sup>1</sup>, Nirupa Chaudhari<sup>2</sup>. <sup>1</sup>*Department of Physiology and Biophysics, University of Miami Miller School of Medicine, Miami, FL, United States*, <sup>2</sup>*Dept of Physiology & Biophysics, Program in Neurosciences, UMiami Miller Sch Medicine, Miami, FL, United States*

#P503

#### **Is There a Change in Olfactory Information Processing During Development?**

Willi Bennegger<sup>1</sup>, Elke Weiler<sup>2</sup>. <sup>1</sup>*Maria-von-Linden-Schule, Heckentalstr. 86, Heidenheim, Germany*, <sup>2</sup>*Faculty of Natural Sciences, Institute for Neurobiology, University of Ulm, Ulm, Germany*

#P504

#### **Sex Differences in Maternal Care Determine Effects of Infant Odor Memory on Anxiety-related Behaviors in Adult Rats**

Kazuo Yamada<sup>1</sup>, Hiroko Ishikawa<sup>1</sup>, Yukako Osato<sup>1</sup>, Saho Ayabe-Kanamura<sup>2</sup>, Yukio Ichitani<sup>1</sup>. <sup>1</sup>*Institute of Psychology & Behavioral Neuroscience, University of Tsukuba, Tsukuba, Japan*, <sup>2</sup>*Faculty of Human Sciences, University of Tsukuba, Tsukuba, Japan*

#P505

#### **The Influence of Olfactory Stimulation on Oral Food Intake Examined on Newborns and Premature Infants**

Nora Rochor<sup>1</sup>, Valentin A. Schriever<sup>2</sup>. <sup>1</sup>*Department of Neuropediatrics TU Dresden, Germany, Dresden, Germany*, <sup>2</sup>*Department of Neuropediatrics & Department of Otorhinolaryngology, TU Dresden, Germany, Dresden, Germany*

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## PROGRAM IN DETAIL POSTER SESSION V

**SATURDAY  
8 – 10:30 PM**

- #P506 **Visuo-olfactory Social Affective Matching in Childhood**  
Annachiara Cavazzana<sup>1</sup>, Christiane Wesarg<sup>2</sup>, Julia Parish-Morris<sup>3</sup>, Johan N. Lundström<sup>4</sup>, Valentina Parma<sup>5</sup>. <sup>1</sup>*Department of General Psychology, Padova, Italy*, <sup>2</sup>*Monell Chemical Senses Center, Philadelphia, United States*, <sup>3</sup>*Center for Autism Research, Children's Hospital of Philadelphia, Philadelphia, United States*, <sup>4</sup>*Department of Clinical Neuroscience, Karolinska Institutet, Stockholm, Sweden*, <sup>5</sup>*SISSA, Neuroscience Area, Trieste, Italy*
- #P508 **The Molecular Basis of Individual Differences in the Taste of an HIV Treatment Drug**  
Julie A. Mennella<sup>1</sup>, Elizabeth D. Lowenthal<sup>2</sup>, Phoebe Mathew<sup>1</sup>, Kristi Roberts<sup>1</sup>, Corrine Mansfield<sup>1</sup>, Liang-Dar Hwang<sup>1</sup>, Cailu Lin<sup>1</sup>, Danielle R. Reed<sup>1</sup>. <sup>1</sup>*Monell Chemical Senses Center, Philadelphia, PA, United States*, <sup>2</sup>*University of Pennsylvania Perelman School of Medicine, Departments of Pediatrics and Epidemiology, Philadelphia, PA, United States*
- #P509 **Development of Hedonics: Experience-Dependent Ontogeny of Circuits Supporting Maternal Odor and Predator Odor Responses in Rats**  
Rosemarie E. Perry<sup>1</sup>, Regina M. Sullivan<sup>2</sup>, Donald A. Wilson<sup>3</sup>. <sup>1</sup>*Neuroscience and Physiology, New York University School of Medicine, New York, NY, United States*, <sup>2</sup>*Child & Adolescent Psychiatry, New York University School of Medicine, New York, NY, United States*, <sup>3</sup>*Child & Adolescent Psychiatry, NYU School of Medicine, New York, NY, United States*
- #P510 **The Role of Olfaction in Mate Selection**  
Theresa L. White<sup>1</sup>, Caitlin Cunningham<sup>2</sup>. <sup>1</sup>*Le Moyne College, Department of Psychology, Syracuse, NY, United States*, <sup>2</sup>*Le Moyne College, Department of Mathematics, Syracuse, NY, United States*
- #P511 **The Influence of Gender and Age on Human Axillary Odor**  
Katharine A. Prokop-Prigge<sup>1</sup>, Lauren Varallo<sup>2</sup>, Brianna Hare<sup>2</sup>, Marco Singer<sup>1</sup>, Keith McDermott<sup>1</sup>, Charles J. Wysocki<sup>2</sup>, George Preti<sup>2</sup>. <sup>1</sup>*Symrise, Teterboro, NJ, United States*, <sup>2</sup>*Monell Chemical Senses Center, Philadelphia, PA, United States*

SATURDAY

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# PROGRAM IN DETAIL POSTER SESSION V

**SATURDAY  
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- #P512      **TAAR5-mediated Behavioral Responses to Trimethylamine are Altered by Social Status and Estrous State**  
Adam K. Dewan, Annika Cichy, David Swygart, Kassandra Blanchard, Thomas Bozza. *Northwestern University, Department of Neurobiology, Evanston, IL, United States*
- #P513      **Evidence of Evidence for Human Chemosignaling: Applying a Novel Meta- Analytic Technique**  
Jasper H. B. de Groot, Monique A. M. Smeets. *Social, Health, & Organizational Psychology, Utrecht, Netherlands*
- #P514      **Olfactory but not Taste Dysfunction Among Chronic Smokers: Baseline Results from an E-cigarette Intervention**  
Sarah-Grace Glennon<sup>1</sup>, Mark Litt<sup>2</sup>, Valerie B. Duffy<sup>1</sup>. <sup>1</sup>*University of Connecticut, Storrs, CT, United States*, <sup>2</sup>*University of Connecticut Health Center, Farmington, CT, United States*
- #P515      **Influence of Mild Head Injury on the Olfactory Function in a Pediatric Population**  
Valentin A. Schriever. *Department of Neuropediatrics, Dresden, Germany*
- #P516      **Olfaction and Depression Characteristics in Patients with ESRD**  
William J. Heaton<sup>1</sup>, Robert F. Gormley<sup>1</sup>, Katherine A. Pendergast<sup>1</sup>, Naomi Whitson<sup>1</sup>, Irene N. Ozbek<sup>1</sup>, James Tumlin<sup>2</sup>. <sup>1</sup>*University of Tennessee at Chattanooga/Psychology, Chattanooga, TN, United States*, <sup>2</sup>*Southeast Renal Research Institute, Chattanooga, TN, United States*
- #P517      **Diabetes, ESRD, and Olfactory Sensitivity**  
Irene N. Ozbek<sup>1</sup>, William J. Heaton<sup>2</sup>, Robert Gormley<sup>3</sup>, Katherine A. Pendergast<sup>3</sup>, Naomi Whitson<sup>3</sup>, James Tumlin<sup>4</sup>. <sup>1</sup>*University of Tennessee at Chattanooga, Chattanooga, TN, United States*, <sup>2</sup>*University of Tennessee at Chattanooga -Psychology Department, Chattanooga, TN, United States*, <sup>3</sup>*University of Tennessee at Chattanooga-Psychology Department, Chattanooga, TN, United States*, <sup>4</sup>*SERRI, Southeast Renal Research Institute, Nephrology Associates, Chattanooga, TN, United States*

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# PROGRAM IN DETAIL POSTER SESSION V

**SATURDAY  
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- #P518      **Chemosensory Disorders, Burning Mouth Sensation, and Halitosis in Patients with Sjögren's Syndrome**  
Bano Singh<sup>1</sup>, Bano Singh<sup>2</sup>, Shermin Rushten<sup>2</sup>, Aqrawi Lara<sup>2</sup>, Alix Young<sup>2</sup>, Morten Rykke<sup>3</sup>, Lene Hove<sup>2</sup>, Bente Herlofson<sup>2</sup>, Palm Øyvind<sup>4</sup>, Janicke Jensen<sup>2</sup>. <sup>1</sup>*Institute of Clinical Dentistry, Faculty of Dentistry, University of Oslo, Oslo, OH, Norway*, <sup>2</sup>*Institute of Clinical Dentistry, Faculty of Dentistry, University of Oslo, Oslo, Norway*, <sup>3</sup>*Institute of Clinical Dentistry, Faculty of Dentistry, University of Oslo, Oslo, Norway*, <sup>4</sup>*Department of Rheumatology, Rikshospitalet, Oslo University Hospital, Oslo, Norway*
- #P519      **Olfactory Function in Patients with Smell Disorders before and after Topical Treatment with Drops Containing Retinoic Acid**  
Thomas Hummel, Gina Rueter, Antje Haehner. *Smell & Taste Clinic, Department of Otorhinolaryngology, TU Dresden, Dresden, Germany*
- #P520      **Odor Localization in the Absence of the Corpus Callosum**  
Johannes Frasnelli<sup>1</sup>, Sabrina Suffren<sup>2</sup>, H. Catherine Sauerwein<sup>3</sup>, Maryse Lassonde<sup>3</sup>, Jean-François Lepage<sup>4</sup>. <sup>1</sup>*Université du Québec à Trois-Rivières, department of anatomy, Trois Rivières, QC, Canada*, <sup>2</sup>*Université de Montréal, Department of Psychology, Montréal, QC, Canada*, <sup>3</sup>*Université de Montréal, Department of Psychology, Montréal, QC, Canada*, <sup>4</sup>*Université du Québec à Trois-Rivières, Department of Psychology, Trois Rivières, QC, Canada*
- #P521      **Optical Interrogation of Olfactory Tubercle Connectivity with the Piriform Cortex**  
Kate A. White<sup>1</sup>, Daniel W. Wesson<sup>2</sup>. <sup>1</sup>*Case Western Reserve University/ Dept of Biology, Cleveland, OH, United States*, <sup>2</sup>*Case Western Reserve University/Depts of Neurosciences and Biology, Cleveland, OH, United States*
- #P522      **A Computational Role for Cortical Feedback in Odor Detection in Natural Scenes**  
Gonzalo H. Otazu, Paul Paul Masset, Dinu F. Albeanu. *Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, United States*

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# PROGRAM IN DETAIL POSTER SESSION V

**SATURDAY  
8 – 10:30 PM**

#P523

## **Advances in SenseLab's Interoperable Neuroinformatics Databases: FunctionalMicroconnectomeDB and ModelDB**

Thomas M. Morse<sup>1</sup>, Luis Marengo<sup>2</sup>, Robert A. McDougal<sup>3</sup>, Rixin Wang<sup>4</sup>, Michael L. Hines<sup>3</sup>, N. T. Carnevale<sup>3</sup>, Francesco Cavarretta<sup>5</sup>, Michele Migliore<sup>5</sup>, Chiquito Crasto<sup>6</sup>, Perry Miller<sup>7</sup>, Gordon M. Shepherd<sup>8</sup>.

<sup>1</sup>*Yale University School of Medicine/Department of Neuroscience, New Haven, CT, United States*, <sup>2</sup>*Yale University Sch of Med/Dep. of Neurosci./Center for Medical Informatics, New Haven, CT, United States*, <sup>3</sup>*Yale University Sch of Med/Dep. of Neurosci., New Haven, CT, United States*, <sup>4</sup>*Yale University Sch of Med/Center for Medical Informatics, New Haven, CT, United States*, <sup>5</sup>*Yale University Sch of Med/Dep. of Neurosci./Inst. of Biophys. NRC Italy, New Haven, CT, United States*, <sup>6</sup>*Texas Tech University/Center for Biotechnology and Genomics, Lubbock, TX, United States*, <sup>7</sup>*Yale University Sch of Med/Dep. of Neurosci./YCFI/VA CT Healthcare Sys, New Haven, CT, United States*, <sup>8</sup>*Yale University Sch of Med/Dep. of Neurosci, New Haven, CT, United States*

#P524

## **Respiration Gates Sensory Input Responses in the Mitral Cell Layer of the Olfactory Bulb**

Shaina M. Short<sup>1</sup>, Thomas M. Morse<sup>2</sup>, Thomas S. McTavish<sup>2</sup>, Gordon M. Shepherd<sup>2</sup>, Justus V. Verhagen<sup>3</sup>. <sup>1</sup>*University of Utah, Dept. Neurobiology and Anatomy, Salt Lake City, UT, United States*, <sup>2</sup>*Yale School of Medicine, Dept. Neuroscience, New Haven, CT, United States*, <sup>3</sup>*Yale School of Medicine, Dept. Neuroscience and The John B. Pierce Laboratory, New Haven, CT, United States*

#P525

## **Possible Roles for Dopamine and Vasoactive Intestinal Polypeptide in Circadian Rhythms of the Olfactory Bulb**

Kirill S. Korshunov, Laura J. Blakemore, Paul Q. Trombley. *Florida State University Department of Biological Science, Tallahassee, FL, United States*

#P526

## **Investigating Attentional Modulation of Odor Coding in the Olfactory Tubercle**

 **Don Tucker  
Award Finalist**

Kaitlin S. Carlson<sup>1</sup>, Emma S. Dauster<sup>1</sup>, Marie A. Gadziola<sup>1</sup>, Daniel W. Wesson<sup>2</sup>. <sup>1</sup>*Case Western Reserve University/Dept of Neurosciences, Cleveland, OH, United States*, <sup>2</sup>*Case Western Reserve University/Depts of Neurosciences and Biology, Cleveland, OH, United States*

**SATURDAY**

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# PROGRAM IN DETAIL POSTER SESSION V

**SATURDAY  
8 – 10:30 PM**

- #P527      **Size-Dependent Characteristics of Glomerulus in Mammalian Olfactory Bulb**  
Doyun Kim, JiHoon Kim, JuYi Kim, NaNa Kang, NaHye Lee, YoonGyu Jae, JaeHyung Koo. *DGIST/Brain & Cognitive Sciences, Daegu, Korea, Republic of*
- #P528      **Glutamatergic Modulation of Mitral Cells by Pre-proglucagon Neurons (dSACs) in the Olfactory Bulb**  
Debra A. Fadool<sup>1</sup>, Nicolas Thiebaud<sup>2</sup>. <sup>1</sup>*The Florida State University, Programs in Neuroscience and Molecular Biophysics, Tallahassee, FL, United States*, <sup>2</sup>*The Florida State University, Program in Neuroscience, Tallahassee, FL, United States*
- #P529      **Hedonic Valence Guides Convergence of Oral Trigeminal and Taste Signals in the Mouse Parabrachial Nucleus**  
Jinrong Li, Christian H. Lemon. *University of Oklahoma/Department of Biology, Norman, OK, United States*
- #P530      **Chemesthesis in the Earthworm, *Lumbricus terrestris***  
Albert H. Kim, Parth R. Vaidya, Kijana K. George, Margaret O. Balogun, Jacob H. Springer, Wayne L. Silver. *Wake Forest University/Biology, Winston Salem, NC, United States*
- #P531      **Taste Buds and Solitary Chemosensory Cells in the Infant Human Larynx**  
Marie E. Jette<sup>1</sup>, Matthew S. Clary<sup>1</sup>, Jeremy D. Prager<sup>2</sup>, Sue C. Kinnamon<sup>1</sup>, Thomas E. Finger<sup>3</sup>. <sup>1</sup>*University of Colorado Denver, Anschutz Medical Campus, Department of Otolaryngology, Aurora, CO, United States*, <sup>2</sup>*Children's Hospital Colorado, Department of Pediatric Otolaryngology, Aurora, CO, United States*, <sup>3</sup>*University of Colorado Denver, Rocky Mountain Taste and Smell Center, Aurora CO, United States*
- #P532      **A Study of Solitary Chemosensory Cells in the Lamprey**  
Barbara Zielinski<sup>1</sup>, Tina E. Suntres<sup>1</sup>, Gheylen Daghfous<sup>2</sup>, Michelle Nevett<sup>1</sup>, Réjean Dubuc<sup>2</sup>. <sup>1</sup>*University of Windsor, Windsor, Canada*, <sup>2</sup>*Dept of Kinesiology Univ du Quebec a Montreal, Dept of Neurosciences Univ Montreal, Montreal, Canada*

SATURDAY

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- #P533 **A Role for PROP Status in the Salivary Protein Response to Astringency**  
Neeta Y. Yousaf<sup>1</sup>, Melania Melis<sup>2</sup>, Mitchell Z. Mattes<sup>1</sup>, Iole Tomassini Barbarossa<sup>2</sup>, Beverly J. Tepper<sup>1</sup>. <sup>1</sup>Dept of Food Science and Center for Sensory Sciences & Innovation, Rutgers University, New Brunswick, NJ, United States, <sup>2</sup>Department of Biomedical Sciences, University of Cagliari, Monserrato, Italy
- #P534 **Hot as a Jalapeño, Cool as a Cucumber: Trigeminal Ganglion Neuron Responses to Capsaicin, Allyl Isothiocyanate (AITC) and Menthol in Mice**  
Joseph M. Breza<sup>1</sup>, Nirupa Chaudhari<sup>2</sup>, Stephen D. Roper<sup>2</sup>. <sup>1</sup>Department of Psychology, Eastern Michigan University, Ypsilanti, MI, United States, <sup>2</sup>Department of Physiology & Biophysics, Miller School of Medicine, University of Miami, Miami, FL, United States
- #P535 **Conditioned Oral Behavioral Responses to Trigeminal Stimuli in Mice**  
Dylan C. Barnes, Christian H. Lemon. *University of Oklahoma/Department of Biology, Norman, OK, United States*
- #P536 **Dose Response Function for Capsaicin in the Context of Reported Liking and Intake of Chili Peppers**  
 Don Tucker Award Finalist Alissa A. Nolden<sup>1</sup>, John E. Hayes<sup>2</sup>. <sup>1</sup>The Pennsylvania State University/ Food Science Department, University Park, PA, United States, <sup>2</sup>The Pennsylvania State University, University Park, PA, United States
- #P537 **Putting Out the Fire: The Efficacy of Common Beverages for the Mitigation Of Oral Burn From Capsaicin**  
Gabrielle B. Lenart, Alissa A. Nolden, John E. Hayes. *Sensory Evaluation Center, and Department of Food Science, Penn State, University Park, PA, United States*
- #P538 **Fetal Ethanol Exposure Reduces Taste and Trigeminal Responses of Adolescent Rats to Ethanol and Chemical Surrogates for its Flavor Components**  
John I. Glendinning<sup>1</sup>, Joyce Tang<sup>1</sup>, Anna Paula Morales Allende<sup>1</sup>, Bruce Bryant<sup>2</sup>, Lisa Youngentob<sup>3</sup>, Steven L. Youngentob<sup>3</sup>. <sup>1</sup>Barnard College, Columbia University/Biology, New York, NY, United States, <sup>2</sup>Monell Chemical Senses Center, Philadelphia, PA, United States, <sup>3</sup>University of Tennessee Health Science Center/Psychiatry, Memphis, TN, United States

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#P539

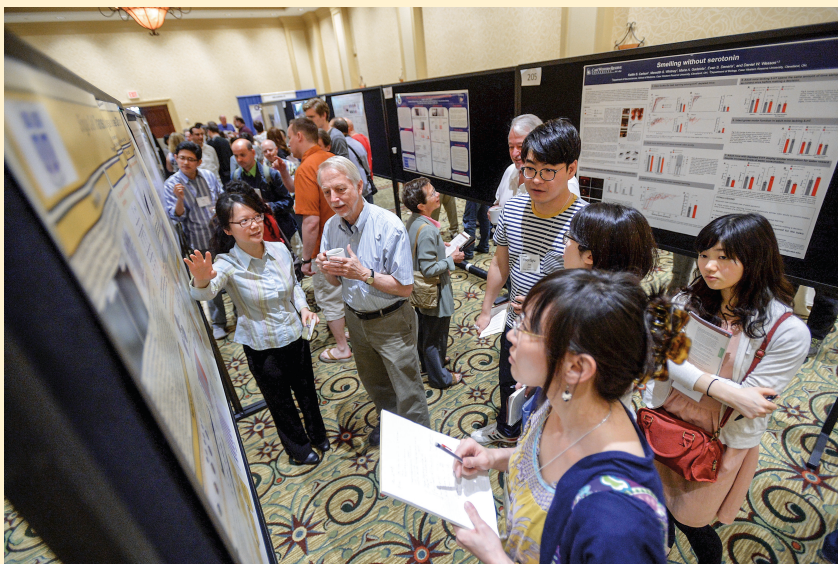
**Cross-modality Selective Adaptation of Chemosensory Binary Mixtures by Humans**

Joseph M. Ballatore<sup>1</sup>, Marion E. Frank<sup>2</sup>, Bradley K. Formaker<sup>2</sup>, Thomas P. Hettinger<sup>2</sup>. <sup>1</sup>*Chemosensory Sciences Center, Dental Medicine UCONN HEALTH, Farmington, CT, United States*, <sup>2</sup>*Chemosensory Sciences Center, UCONN HEALTH, Farmington, CT, United States*

#P540

**Temperature Affects Bitter Taste Sensitivity and Adaptation in a Stimulus-dependent Manner**

Kendra Andrew<sup>1</sup>, Barry Green<sup>2</sup>. <sup>1</sup>*The John B. Pierce Laboratory, New Haven, CT, United States*, <sup>2</sup>*The John B. Pierce Laboratory and Yale School of Medicine, New Haven, CT, United States*



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*The abstract number above preceded by an 'O' indicates an oral abstract/presentation.  
 All other numbers indicate poster abstracts/presentations. **Bold** indicates first/presenting author.*

# POSTER HALL THURSDAY

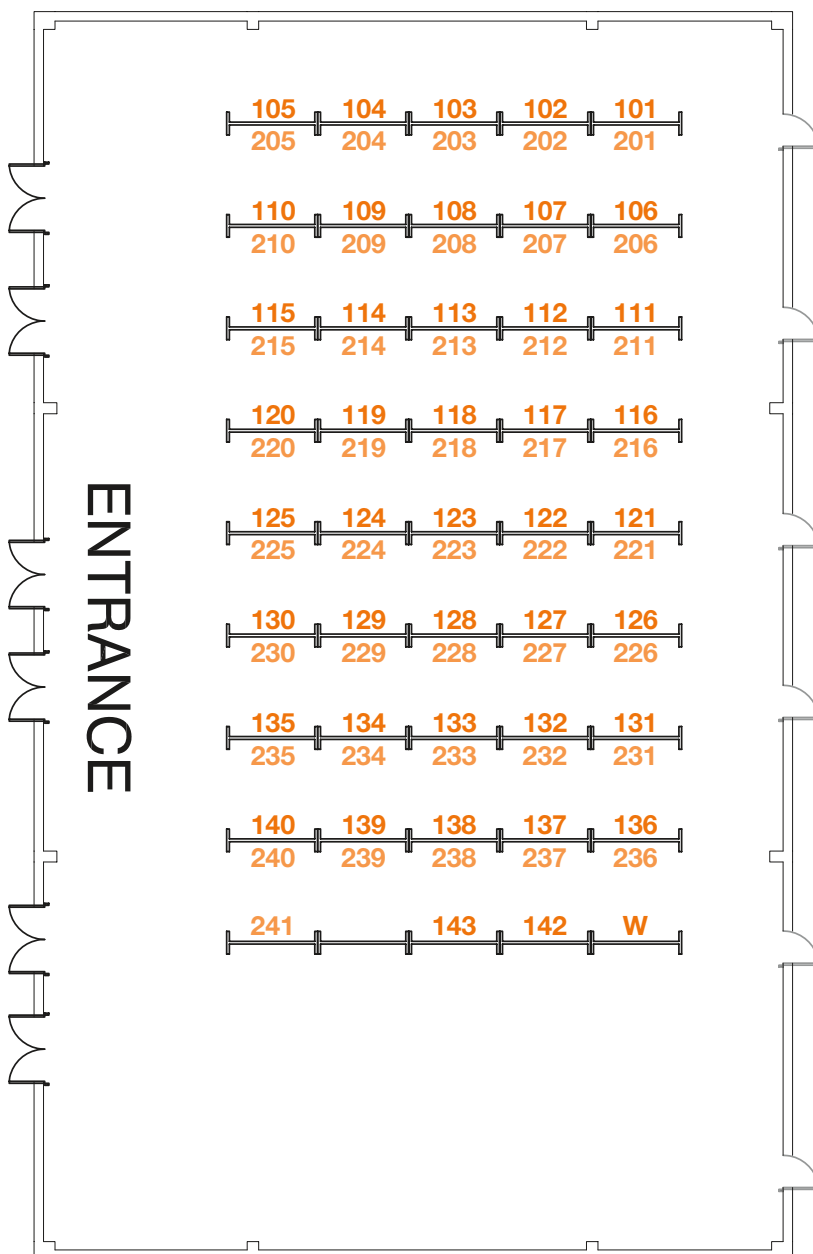
## ESTERO BALLROOM

100's

Poster Session I: 8 - 10:30 am

200's

Poster Session II: 8 - 10:30 pm



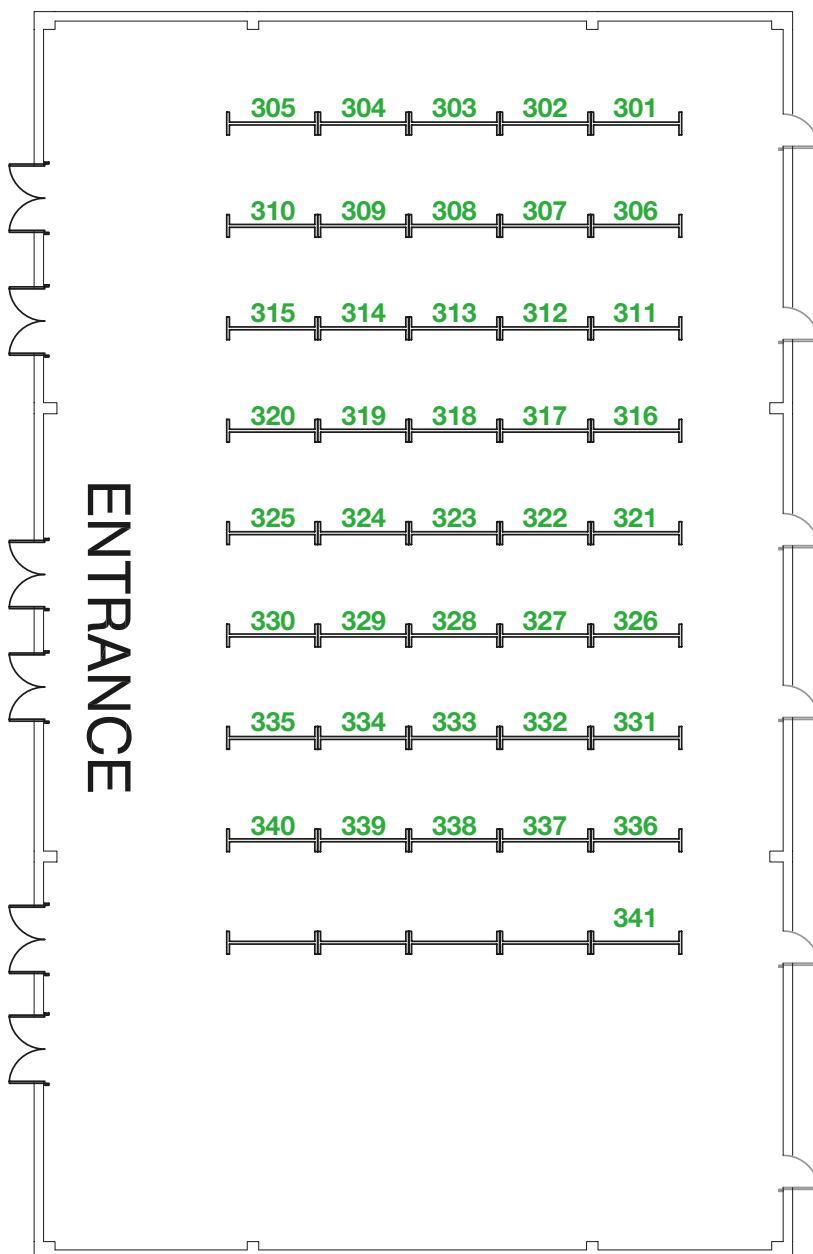
POSTER HALL DIAGRAM

## ESTERO BALLROOM

300's

Poster Session III: 8 - 10:30 am

No PM session



# POSTER HALL

SATURDAY

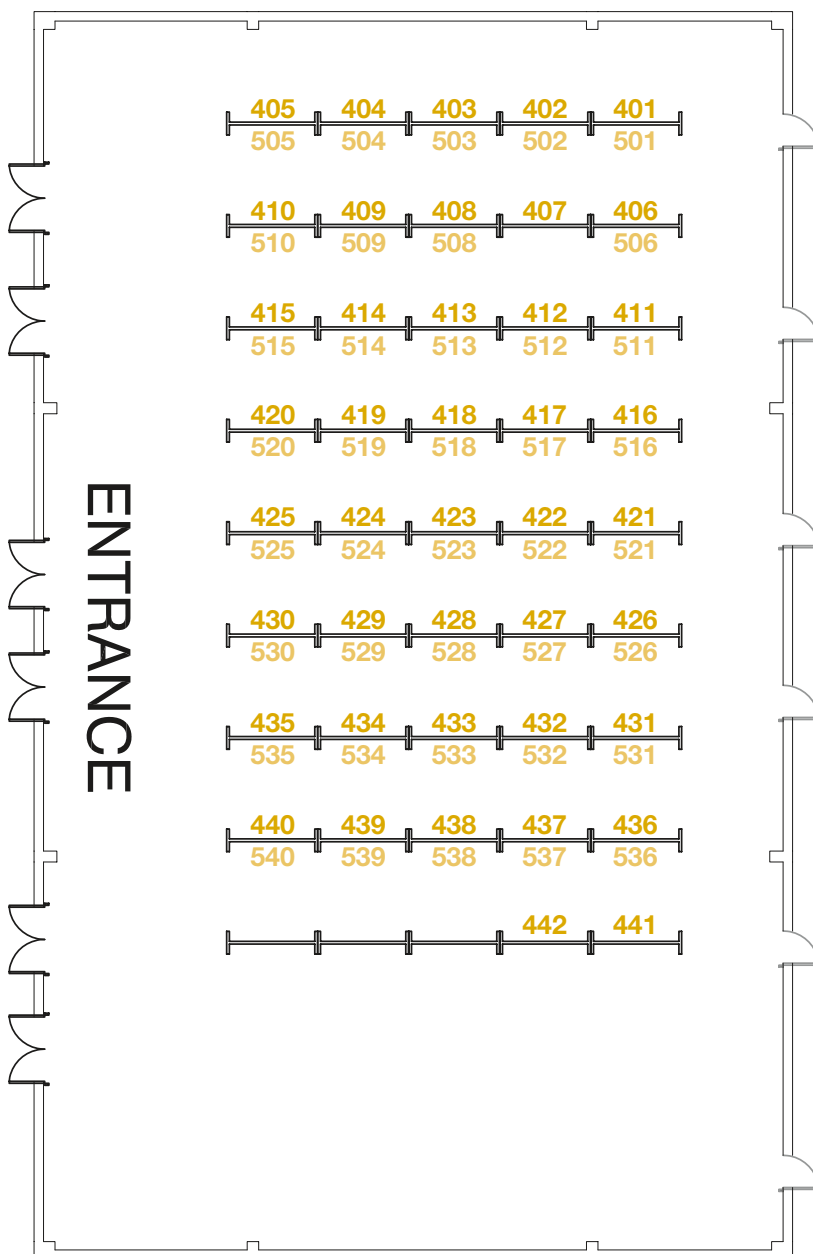
## ESTERO BALLROOM

400's

Poster Session IV: 8 - 10:30 am

500's

Poster Session V: 8 - 10:30 pm



POSTER HALL DIAGRAM

# VISUAL PROGRAM AT A GLANCE

WEDNESDAY, APRIL 20		THURSDAY, APRIL 21	
8 am		BREAKFAST CORNERS WITH INDUSTRY 7:30 – 9 am   <i>Estero Terrace</i>	8 am
9 am	COMMUNITY OUTREACH EVENT 9 am – Noon <i>Franklin Park Elementary</i>		POSTER SESSION I 8 – 10:30 am <i>Estero Ballroom</i>
10 am			10 am
11 am			11 am
Noon		SYMPOSIUM: Olfactory Dysfunction in Traumatic Brain Injury 10:30 am – 12:30 pm <i>Calusa Ballroom 1</i>	NOON
1 pm		ACHEMS EXECUTIVE COMMITTEE MEETING 11:30 am – 3:30 pm	LONG RANGE PLANNING COMMITTEE MEETING 12:30 – 1:30 pm   <i>Great Egret</i>
2 pm		CLINICAL SYMPOSIUM: Anosmia - The Patient, The Clinic, The Cure? 1 – 3 pm <i>Calusa Ballroom 1</i>	1 pm
3 pm			2 pm
4 pm		ORAL SESSION I 3 – 5 pm <i>Calusa Ballroom 1</i>	3 pm
5 pm	WELCOME/AWARDS CEREMONY 5 – 6 pm <i>Calusa Ballroom 1</i>	ORAL SESSION II 3 – 5 pm <i>Calusa Ballroom 2</i>	4 pm
6 pm	GIVAUDAN LECTURE: The Human Oral Microbiome 6 – 7 pm   <i>Calusa Ballroom 1</i>	THE BARRY DAVIS FUNDING WORKSHOP 5 – 7 pm <i>Calusa Ballroom 2</i>	5 pm
7 pm			6 pm
8 pm	WELCOME BANQUET 7 – 9 pm <i>Waterfall Pool Deck</i>		7 pm
9 pm		POSTER SESSION II 8 – 10:30 pm <i>Estero Ballroom</i>	8 pm
10 pm	GRADUATE STUDENT HAPPY HOUR 9 – 11 pm <i>Mangroves Patio</i>		9 pm
			10 pm

# VISUAL PROGRAM AT A GLANCE

FRIDAY, APRIL 22		SATURDAY, APRIL 23				
8 am	<b>POSTER SESSION III</b> 8 – 10:30 am <i>Estero Ballroom</i>		<b>POSTER SESSION IV</b> 8 – 10:30 am <i>Estero Ballroom</i>		8 am	
9 am					9 am	
10 am					10 am	
11 am	<b>SYMPOSIUM: Chemosensory Processing in Amygdala Subnuclei</b> 10:30 am – 12:30 pm <i>Calusa Ballroom 1</i>	<b>SYMPOSIUM: Structural Insights Into Chemosensory Receptors</b> 10:30 am – 12:30 pm <i>Calusa Ballroom 2</i>	<b>ORAL PRESENTATIONS: Polak Young Investigator Awardees</b> 10:30 am – 12:30 pm <i>Calusa Ballroom 1</i>		11 am	
Noon					Noon	
1 pm	<b>ACHEMS BUSINESS MEETING</b> 12:30 – 1:30 pm <i>Calusa Ballroom 1</i>				1 pm	
2 pm	<b>ACHEMS TASTE VS. SMELL SOFTBALL GAME</b> 2 – 5 pm <i>Hammond Stadium</i>	<b>INDUSTRY SYMPOSIUM: Chemosensory Model Systems</b> 2 – 4 pm <i>Calusa Ballroom 1</i>		2 pm		
3 pm						3 pm
4 pm	<b>JOURNAL CLUB</b> 4 – 5 pm <i>Calusa Ballroom 1</i>		<b>SPECIAL LECTURE: Sometimes You Feel It, Sometimes You Don't</b> 4 – 5 pm   <i>Calusa Ballroom 1</i>		4 pm	
5 pm					5 pm	
6 pm	<b>ACHEMS CAREER NETWORKING SOCIAL</b> 5 – 6:30 pm <i>Estero Ballroom Foyer and Terrace</i>		<b>SYMPOSIUM: Predicting Olfactory Perception</b> 6 – 8 pm <i>Calusa Ballroom 1</i>		<b>SYMPOSIUM: A Modern Take on CNS Gustatory Processing</b> 6 – 8 pm <i>Calusa Ballroom 2</i>	6 pm
7 pm	<b>PRESIDENTIAL SYMPOSIUM: AWARDEE LECTURES</b> 7 – 9 pm <i>Calusa Ballroom 1</i>					7 pm
8 pm			<b>POSTER SESSION V</b> 8 – 10:30 pm <i>Estero Ballroom</i>		8 pm	
9 pm					9 pm	
10 pm					10 pm	



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# 2016 ANNUAL MEETING EXHIBITORS

## EXHIBIT HOURS

Thursday, April 21  
8 – 10:30 am

Friday, April 22  
8 – 10:30 am

Saturday, April 23  
8 – 10:30 am



### Fifth Sense

Fifth Sense is the UK-based charity for people affected by smell and taste disorders. We exist to provide support and advice to smell and taste-related disorder sufferers, and so that society can understand what it means to suffer impairment of one or both of these senses.

*Company representative:* Duncan Boak



### Osmic Enterprises

Osmic Enterprises, Inc. produces and distributes the OLFACT™ Test Battery, a series of computerized tests to assess olfactory function. Olfactory tests include a threshold test, and identification test, a discrimination test, and an odor memory test. Stimuli are generated via a miniature olfactometer, with administration of the tests and recording of responses under computer control. The OLFACT™ Test Battery is now available as a web-enabled app. Data from multiple olfactometers, located in different locales, can be collected in real time into a centralized databased for immediate inspection and analysis. Osmic Enterprises also produces fMRI olfactometers that can be controlled by Neurobehavioral Systems Presentation® software.

*Company representative:* Lloyd Hastings



### Sensonics International

Sensonics International provides the medical, scientific and industrial communities with the best smell and taste tests for assessing chemosensory function. The Smell Identification Test™ is the most widely used quantitative olfactory test in the world.

*Company representatives:* Kyra Milnamow and Joseph DePasquale



### Tucker-Davis Technologies

Tucker-Davis Technologies (TDT) provides products for basic and applied research in the neurophysiology, hearing, and speech sciences as well as for general data acquisition applications. We offer a complete line of modular DSP-based data acquisition and stimulus generation systems. At TDT, we work closely to achieve our common goal: to supply you with the highest quality, most up-to-date technology available at an affordable price. We believe we can best meet this goal when all areas of our business work together in a cooperative and collaborative environment.

*Company representatives:* Todd Shewman and Nafi Yasar

## NOTES

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# ACHEMS BUSINESS MEETING



**ACChemS**

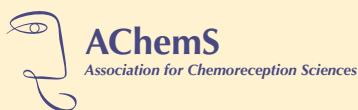
*Association for Chemoreception Sciences*

## AGENDA

**Friday, April 22, 2016**

*12:30 – 1:30 pm | Calusa Ballroom 1 | Hyatt Coconut Point*

1. Call to Order – *Susan Travers, PhD, President*
2. Approval of Business Meeting Minutes – *Dr. Travers*  
*Bonita Springs, FL, April 2015*
3. Report from the President – *Dr. Travers*
4. Report from the Elections Committee – *Debi Fadool, PhD, Chair*
  - a) **2016 Election Results**  
President-Elect  
Program Chair-Elect  
ISOT Chair-Elect  
Secretary  
Membership  
Postdoc Representative  
Graduate Student Representative
  - b) **Thank You to Outgoing Officers**  
C. Shawn Dotson, PhD, Senior Councilor  
John Glendinning, PhD, Senior Advisor  
Julie Mennella, PhD, Program Chair  
John Boughter, PhD, Secretary  
Pam Dalton, PhD, Membership Chair
5. Report from the Treasurer – *Joel Mainland, PhD*
6. Report from the Secretary – *John Boughter, PhD*
7. Report from the Program Committee Chair – *Julie Mennella, PhD*
8. Report from the Membership Chair – *Pam Dalton, PhD*
9. Report from the Councilors – *Shawn Dotson, PhD*
10. Other Committee Reports – *Susan Travers, PhD*
11. Report from the NIDCD – *Jim Battey, PhD*
12. Welcome to the New President and Passing of Gavel – *Susan Travers, PhD*
13. Old Business  
New Business
14. Adjourn



AChemS XXXIX

# 39TH ANNUAL MEETING



APRIL 26-29, 2017

HYATT REGENCY COCONUT POINT  
BONITA SPRINGS, FLORIDA



# Leading to Better Taste, Health, and Wellbeing

## Marketplace

Continue to enhance the nutritional value of our ingredients without compromising taste

## Workplace

Conduct our business in a responsible and ethical manner and be an employer of choice

## Environment

Improve our environmental stewardship, drive efficiency in resource use and exceed in efforts to reduce waste.





# Science and technology

## Always something new



Innovation in flavor and taste solutions is our passion.  
Our creative teams and scientists not only apply the very  
latest thinking – we invent it.

We attract, develop and retain, talented, creative professionals  
who feel proud of the work they do in our company and who  
are empowered to contribute to a sustainable society.

Givaudan

engage your senses

