



39th Annual Meeting

AChemS XXXIX

April 26–29, 2017

Hyatt Regency
Coconut Point

Bonita Springs, FL

PROGRAM

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





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**, the **Polak Postdoctoral Travel Awards** and the **ACChemS Student Housing and Travel Awards**.



2016 Polak Young Investigator Award Recipients

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MEETING EVALUATION

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

SPECIAL & SOCIAL EVENTS

WEDNESDAY, APRIL 26, 2017

9 am – Noon

Community Outreach Event

Offsite - Imaginarium Science Center

Volunteer AChemS Members will be inspiring 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. 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.

6 – 7 pm

Givaudan Lecture

Givaudan

Fiona Watt, PhD

Regulation of Epidermal Homeostasis by Intercellular Communication

Calusa A-D

Stem cell behaviour is controlled by intrinsic mechanisms and by external signals from the local microenvironment or niche. My lab is using genetically modified mice and cultures of primary human epidermal stem cells to investigate the interplay between specific intrinsic and extrinsic signals in regulating exit from the stem cell compartment. In my talk I will discuss progress that we have made in defining soluble factors, cell surface ligands, extracellular matrix components and topographical features that control the onset of terminal differentiation and how we are mapping the signal transduction pathways involved.

7 – 9 pm

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.

9 – 11 pm

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.

SPECIAL & SOCIAL EVENTS

EVENTS

THURSDAY, APRIL 27, 2017

7:30 – 9 am

Industry Breakfast Corners

Estero Terrace Open to Everyone!

KERRY TASTE & NUTRITION

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.



AJINOMOTO

The Ajinomoto Group's corporate message is "Eat well, live well." This is harmonized with our founding aspiration, "To create good, affordable seasonings and turn simple but nutritious fare into delicacies", from the time we launched our business with umami seasoning AJI-NO-MOTO® in 1909. Keeping this aspiration in our mind, we are working for R&D to discover taste of the future through chemosensory researches. In this Breakfast Corner, we will show some of our recent progresses in oral sense and olfaction research. Please join to the Ajinomoto Group's table to share ideas in chemosensory sciences.



3:40 – 5:40 pm

The Barry Davis Workshop: Funding Opportunities For The New Investigator

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

Calusa F-H

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.

3:45 – 5:15 pm

RNAseq Workshop

Captiva

RNAseq is a new technique used to quantify the full transcriptomes of tissues or cells. This event will lay groundwork for those who are new to this method, and also serve as an interest group for those who are currently using this technique to discuss pipelines and technical aspects; we also plan some hands-on time using toy files for analysis. Bring your laptop and questions.

SPECIAL & SOCIAL EVENTS

5:45 – 7:00 pm

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 include Grant Writing, Life Outside Academia (Industry), Equality in Science, Women in Science, Work/Life Balance, Working outside the US, Life in Academia, and more.

7 – 9 pm

President's Symposium

Calusa A-D

Social interactions between conspecifics increase the chances of successful reproduction and survival by providing individuals with critical information they could not easily get from sampling the broader environment. Social signals are typically communicated within meaningful behavioral contexts and may elicit either learned or innate responses. By exploring the mechanisms and impact of social communication across several vertebrate and invertebrate species, this symposium should highlight key principles for understanding how animals can use social information to learn about each other and about their sensory world. After a brief introduction by the session chair, three eminent scientists will discuss their work exploring chemosensory-mediated social communication in animals. First, Christine Drea will discuss olfactory mediated social communication in strepsirrhine primates. Next, Christina Grozinger will talk about the roles of pheromonal communication within colonies of social insects such as honey bees and fire ants. Finally, Lisa Stowers will discuss the use of conspecific olfactory cues that elicit innate responses in mice to understand the generation of motivated behavior.

FRIDAY, APRIL 28, 2017

12:50 – 1:50 pm

AChemS Business Meeting

Calusa A-D

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

SATURDAY, APRIL 29, 2017

3:30 – 4:50 pm

The AChemS Journal Club

Captiva Room

Second Annual Event from the History Committee Historical Contexts for Current Chemosensory Research

An Introduction to Conditioned Taste Aversion Highlighting Contributions to the Chemosensory Sciences from James C. Smith, Florida State University Conditioned Taste Aversion

What is it? Where did it come from? How is it used now?

Presentations by: Alan Spector, Florida State University; Lindsey Schier, Florida State University; Jian-You Lin, Brandeis University; Don Katz, Brandeis University

COMMITTEES

COMMITTEES

ACHEMS EXECUTIVE COMMITTEE 2016-2017

President	Steven Munger, PhD	University of Florida
Past-President	Susan Travers, PhD	The Ohio State University
Senior Advisor	Debra Fadool, PhD	Florida State University
President-Elect	Thomas Finger, PhD	University of Colorado
Secretary	Rachel Herz, PhD	Brown University
Membership Chair	Kurt Illig, PhD	Univeristy of St. Thomas
Program Chair	Linda Barlow, PhD	University of Colorado
Treasurer	Joel Mainland, PhD	Monell Chemical Senses Center
Program Chair-Elect	John Boughter, PhD	University of Tennessee
Sr. Councilor	Theresa White, PhD	LeMoyne College
Jr. Councilor	Jessica Brann, PhD	Loyola University
Postdoctoral Rep.	Warren Green, PhD	University of Florida
Grad Student Rep.	Genevieve Bell	Florida State University

ACHEMS PROGRAM COMMITTEE 2016-2017

Linda Barlow, PhD, <i>Chair</i>	Thomas Hummel, MD, PhD
Julie Mennella, PhD, <i>Past Chair</i>	Maria Larsson, PhD
John Boughter, PhD, <i>Incoming Chair</i>	Steve Liberles, PhD
Yehuda Ben-Shahar, PhD	Weihong Lin, PhD
Sanne Boesveldt, PhD	Joel Mainland, PhD
Diego Bohorquez, PhD	Clare Mathes, PhD
Christine Byrd-Jacobs, PhD	Kathryn Medler, PhD
Earl Carstens, PhD	Wolfgang Meyerholf, PhD
Kevin Daly, PhD	Arundhati Ray, PhD
Max Fletcher, PhD	Danielle Reed, PhD
Alfredo Fontanini, MD, PhD	Marc Spehr, PhD
David Gire, PhD	Justus Verhagen, PhD
Jay Gottfriend, MD, PhD	Neil Vickers, PhD
Charles Greer, PhD	Daiel Wesson, PhD
Liquan Huang, PhD	Haiquing Zhao, PhD

COMMITTEE CHAIRS

ACHEMS STANDING COMMITTEE CHAIRS

Bylaws Committee: Susan Travers, PhD

Diversity Committee: Barbara Zielinski, PhD

Elections Committee: Susan Travers, 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 Committee: Thomas Mast, PhD

ACHEMS AD HOC COMMITTEE CHAIRS:

Archives Committee: Charlotte Mistretta, PhD

Awards Committee: Thomas Finger, PhD

Clinical Relations: Valerie Duffy, PhD, RD

Grants Committee: Diego Restrepo, PhD

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



2017 AWARD RECIPIENTS

AWARDS

39th Annual Givaudan Lectureship

Fiona Watt, PhD, King's College London

Max Mozell Award for Outstanding Achievement in the Chemical Senses

Michael Meredith, PhD, Program in Neuroscience and Department of Biological Science, Florida State University, USA

23rd Annual Ajinomoto Award for Young Investigators in Gustation

Kathrin Ohla, PhD, German Institute of Human Nutrition Potsdam-Rehbruecke, Germany

26th Annual Barry Jacobs Memorial Award for Research in Psychophysics of Human Taste and Smell (formerly Moskowitz Jacobs)

Christopher T. Simons, PhD, The Ohio State University, USA

The AChemS Young Investigator Award for Research in Olfaction

Max L. Fletcher, PhD, University of Tennessee, USA

The Don Tucker Memorial Award Recipient (2016 Awardee)

Meredith Blankenship, Brandeis University, USA

Polak Foundation Awards

The Polak Foundation Awards are funded by the Elsie 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

Claire E. Cheetham, Carnegie Mellon University

Sankarganesh Devaraj, Texas Tech University

Chengyu Li, The Ohio State University

George Kyriazis, Sanford Burnham Prebys Medical Discovery Institute

Yumei Qin, Monell Chemical Senses Center

Yusuke Yokota, University of Michigan

Polak Postdoctoral Travel Award Recipients

Tobias Ackels, The Francis Crick Institute

Yan Chen, Texas A&M University

Warren Green, University of Florida

Eric Larson, University of Colorado

Casey Trimmer, Monell Chemical Senses Center

2017 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.

Olga Escanilla, Binghamton University

Brian Jackson, University of Washington

Kayla Lemons, University of Maryland Baltimore County

Kimberly Nnah, Binghamton University

Vincente Ramirez, University of California Merced

Melissa Singletary, Auburn University

Regine West, Eastern Michigan University

AChemS Student Housing and Travel Award Recipients

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

Abdullah Al-Matrouk

Xiaojun Bao

Elizabeth Carney

Brandon Chelette

Jingguo Chen

Ciera Crawford

Rudolf Degen

Bapon Dey

Laura Donner

Wayne Doyle

Malena Ezzat

Veronica Flores

Kara Fulton

Marie-Luise Gruhn

Jisoo Han

Linnea Herzog

Deanna Hojati

Jason Hwang

Liang-Dar (Daniel) Hwang

Ashley Iannantone

Mohamed Ishan

Catherine Kaminski

Marley Kass

Megen Kepas

Kirill Korshunov

Tenzin Kunkhyen

Simona Manescu

Elizabeth McCarthy

Maellie Midroit

Adrianna Milton

Takuya Osakada

Katherine Pendergast

Daphnee Poupon

Alexa Pullicin

Andrew Riquier

Madeline Rochelle

Sara Simpson

Longzhi Tan

Claire Terrier

Lutz Wallhorn

Yuting Ye

Xingjian Zhang

Logo Contest Award Recipient

Courtney Wilson, University of Colorado



PROGRAM AT A GLANCE

TUESDAY, APRIL 25, 2017

- 1:50 pm - 7:00 pm **SATELLITE SYMPOSIUM**
Cellular and Molecular Mechanisms of Chemosensory Detection
Moderators: Marco Tizzano & Trese Leinders-Zufall
Calusa AB

WEDNESDAY, APRIL 26, 2017

- 8:00 am - 11:40 am **SATELLITE SYMPOSIUM**
Cellular and Molecular Mechanisms of Chemosensory Detection
Moderators: Jeremy McIntyre & Lisa Stowers
Calusa A-C
- 9:00 am - 12:00 pm **OUTREACH EVENT**
Imaginarium
Offsite - Imaginarium Science Center
- 12:00 pm - 4:00 pm **MEETING**
ACChemS Executive Committee Meeting (Invite Only)
Blue Heron AB
- 5:00 pm - 6:00 pm **WELCOME/AWARDS CEREMONY**
Calusa A-D
- 6:00 pm - 7:00 pm **GIVAUDAN LECTURE**
Regulation of Epidermal Homeostasis by Intercellular Communication.
Fiona Watt, PhD
Calusa A-D
- 7:00 pm - 9:00 pm **WELCOME BANQUET**
Pool Deck & Cypress Courtyard
- 9:00 pm - 11:00 pm **EVENT**
Graduate Student Happy Hour
Mangroves Patio

Givaudan

THURSDAY, APRIL 27, 2017

- 7:30 am - 9:00 am **BREAKFAST**
Breakfast Corners with Industry
Estero Terrace
- 8:00 am - 10:30 am **POSTER SESSION 1**
Estero
- 9:00 am - 10:30 am **COFFEE BREAK**
Estero Foyer

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

PROGRAM AT A GLANCE

THURSDAY, CONTINUED

- 10:30 am - 12:10 pm **SYMPOSIA**
Regulation of Sensory Cell Turnover
Moderators: Kathryn Medler and Robin Krimm
Calusa A-C
- TRP Channels in Model Organisms: Roles in Sensation and Behavior**
Moderator: Craig Montell
Calusa F-H
- 12:30 pm - 1:30 pm **ANCILLARY MEETING**
Chemical Senses Editorial Board Meeting
Sanibel
- 12:30 pm - 1:30 pm **EVENT**
Travel Fellowships for Diversity Award Recipients Luncheon
Cove at Tarpon Bay
- 1:30 pm - 3:30 pm **SYMPOSIUM**
Clinical Symposium: Chemical Senses in Cancer and Cancer Therapy
Moderators: Valerie Duffy and Thomas Hummel
Calusa A-D
- 3:40 pm - 5:40 pm **MEETING**
The Barry Davis Workshop: Funding Opportunities for the New Investigator
Calusa F-H
- 3:45 pm - 5:15 pm **WORKSHOP**
RNAseq Interest Group and Workshop
Captiva
- 5:45 pm - 7:00 pm **EVENT**
Career/Networking Social
Estero Foyer
- 7:00 pm - 9:00 pm **SYMPOSIUM**
President's Symposium: Tell Me About It: Intraspecies Social Communication in Mammals and Insects
Moderator: Steven Munger
Calusa A-D
- 9:00 pm - 11:00 pm **POSTER SESSION II**
Estero

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

PROGRAM AT A GLANCE

FRIDAY, APRIL 28, 2017

- 7:30 am - 9:00 am **CONTINENTAL BREAKFAST**
Estero Foyer
- 8:00 am - 10:30 am **POSTER SESSION III**
Estero
- 9:00 am - 10:30 am **COFFEE BREAK**
Estero Foyer
- 10:30 am - 12:10 pm **SYMPOSIA**
The Role of Multimodal Sensory Integration in Shaping Behavior Across Diverse Animal Taxa
Moderator: Neil Vickers
Calusa A-C
- Chemosensory Thalamus**
Moderators: Emmanuelle Courtiol and Alfredo Fontanini
Calusa F-H
- 12:50 pm - 1:50 pm **MEETING**
AChemS Business Meeting
Calusa A-D
- 2:00 pm - 4:00 pm **SYMPOSIUM**
Public Health & Industry Symposium
Moderators: Chris Simons and Paul Breslin
Calusa A-D
- 7:00 pm - 9:00 pm **POLAK AWARD PRESENTATIONS**
Calusa A-D
- 9:00 pm - 11:00 pm **POSTER SESSION IV**
Estero



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

PROGRAM AT A GLANCE

SATURDAY, APRIL 29, 2017

- 7:30 am - 9:00 am **CONTINENTAL BREAKFAST**
Estero Foyer
- 8:00 am - 10:30 am **POSTER SESSION V**
Estero
- 9:00 am - 10:30 am **COFFEE BREAK**
Estero Foyer
- 10:30 am - 12:10 pm **SYMPOSIA**
Plasticity Along the Gustatory Processing Pathway
Moderators: Kathrin Ohla & Wolfgang Meyerhof
Calusa A-C
- Dynamic Computations for Navigating Complex Odor Environments**
Moderator: David Gire
Calusa F-H
- 1:30 pm - 3:10 pm **SYMPOSIA**
Aquatic Olfaction in the Vertebrate Lineage, from Lamprey to Amphibians: Segregated Subsystems and Pheromone Detection
Moderator: Sigrun Korsching
Calusa A-C
- Emerging Mechanisms for Sensory - Immune Communication**
Moderators: Lynnette McCluskey and Hong Wang
Calusa F-H
- 3:30 pm - 4:50 pm **JOURNAL CLUB**
Historical Contexts for Current Chemosensory Research
Moderator: Charlotte Mistretta with Robert Bradley, Richard Costanzo, David Hill and Claire Murphy
Captiva
- 7:00 pm - 9:00 pm **AWARD LECTURES**
Calusa A-D
- 9:00 pm - 11:00 pm **POSTER SESSION VI**
Estero

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

PROGRAM IN DETAIL

TUESDAY, APRIL 25, 2017

SATELLITE

1:50 pm - 7:00 pm

Calusa AB

Cellular and Molecular Mechanisms of Chemosensory Detection

Moderators: Marco Tizzano & Trese Leinders-Zufall

1:50 Welcome & Introduction

1 Steven D. Munger^{1,2}

¹University of Florida Center for Smell and Taste, Gainesville, FL, USA, ²University of Florida Department of Pharmacology and Therapeutics, Gainesville, FL, USA

2:00 Understanding Bitterness

2 Wolfgang Meyerhof

German Institute of Human Nutrition

2:20 Aquatic Chemosensation: Evolution of Olfactory Receptor Repertoires

3 Sigrun I. Korsching

Institute of Genetics, University at Cologne, Cologne, Germany

2:40 Signaling Mechanisms in the Mouse Accessory Olfactory System

4 Chryssanthi Tsitoura¹, Monika Gorin¹, Maximilian Nagel¹, Rudolf Degen¹, David Fleck¹, Julia Morhardt¹, Katja Watznauer¹, Sebastian Malinowski¹, Anat Kahan², Yoram Ben-Shaul², Marc Spehr¹

¹Department of Chemosensation, Institute for Biology II, ²School of Medicine, Department of Medical Neurobiology, The Hebrew University of Jerusalem, Jerusalem, Israel

3:00 A Novel Logic and Mechanism for Mammalian Olfaction

5 Sandeep Robert Datta

Department of Neurobiology Harvard Medical School, Boston, MA

3:20 Olfactory Cilia: Dynamics and Disease

6 Jeffrey R. Martens

University of Florida, College of Medicine, Department of Pharmacology & Therapeutics and The Center for Smell and Taste

3:40 What Does the Nose Tell the Brain via Nasal Breathing?

7 Minghong Ma

Department of Neuroscience, University of Pennsylvania Perelman School of Medicine

4:00 The Molecular and Cellular Basis of Fatty Acid and Sour Taste in *Drosophila*

8 Hubert Amrein, Yan Chen, Ji-Eun Ahn

Department of Molecular and Cellular Medicine College of Medicine Texas A&M University Health Science Center, College Station, TX, USA

4:20 Coffee Break

Calusa C

TUESDAY

PROGRAM IN DETAIL

TUESDAY, CONTINUED

- 4:40 **How Biology Perceives Chemsitry**
9 Stuart Firestein
Columbia University
- 5:00 **Contribution of Trace Amine-Associated Receptors to Odor Perception in the Mouse**
10 Thomas Bozza
Department of Neurobiology, Northwestern University, Evanston, IL, USA
- 5:20 **Taste and Smell, Life and Death**
11 Danielle R Reed
Monell Chemical Senses Center
- 5:40 **Building Sensory Cilia: Signals Localizing Transduction Proteins in Cells and Mice**
12 Randall R. Reed, Heather M. Kulaga
Center for Sensory Biology, Department of Molecular Biology, Johns Hopkins University School of Medicine, Baltimore, MD, USA
- 6:00 **A Competitive Binding Model Predicts the Response of Mammalian Olfactory Receptors to Mixtures**
13 Joel Mainland^{1,2}, Vijay Singh¹, Nicolle Murphy², Vijay Balasubramanian¹
¹University of Pennsylvania, Philadelphia, PA, ²Monell Chemical Senses Center, Philadelphia, PA, USA
- 6:20 **Cellular and Molecular Basis of Taste Sensation in Drosophila**
14 Craig Montell
MCDB Dept., UCSB
- 6:40 **Mechanisms Underlying Innate Odor Fear**
15 Linda Buck
Howard Hughes Medical Institute and Fred Hutchinson Cancer Research Center, Seattle, WA, USA

TUESDAY



PROGRAM IN DETAIL

WEDNESDAY, APRIL 26, 2017

SATELLITE

8:00 am - 11:40 am

Calusa A-C

Cellular and Molecular Mechanisms of Chemosensory Detection

Moderators: Jeremy McIntyre & Lisa Stowers

8:00 Flexible Olfactory Behaviors of Parasitic Nematodes

16 Felicitas Ruiz, Joon Ha Lee, Spencer Gang, Michelle Castelletto, Elissa Hallem
Department of Microbiology, Immunology, and Molecular Genetics University of California, Los Angeles, USA

8:20 Molecular and Genetic Analysis of the Vagus Nerve

17 Stephen D LiberleN
Harvard Medical School, USA

8:40 From Odor Molecules to Behavioral Valence: Conserved Principles

18 Anandasankar Ray
Institute of Integrative Genome Biology, University of California Riverside, USA

9:00 Trpc2 Function in the Main Olfactory Epithelium

19 Frank Zufall
Saarland University

9:20 Multiple Sweet Taste Signaling Pathways in the Mouse Periphery

20 Yuzo Ninomiya^{1,2,3}, Keiko Yasumatsu^{1,2}, Ryusuke Yoshida², Shingo Takai², Shusuke Iwata², Keisuke Sanamatsu², Noriatsu Shigemura^{1,2}, Robert F Margolskee³
¹Division of Sensory Physiology, Research and Development Center for Taste and Odor Sensing, Section of Oral Neuroscience, ²Graduate School of Dental Sciences, Kyushu University, Fukuoka, Japan, ³Monell Chemical Senses Center, Philadelphia, USA

9:40 Coffee Break

Calusa Foyer

10:00 Shedding Light on the Function of Type III Cells

21 Sue C. Kinnamon, Courtney E Wilson
Dept. of Otolaryngology and Rocky Mountain Taste and Smell Center, University of Colorado Denver, Aurora, CO, USA

10:20 Sensory and Central Signals Regulating Water Homeostasis

22 Yuki Oka
California Institute of Technology, USA

10:40 Asymmetric Ephaptic Neuronal Interaction in an Olfactory Circuit

23 Ye Zhang¹, Tin Ki Tsang¹, Eric Bushong², Mark Ellisman², Chih-Ying Su¹
¹Division of Biological Sciences, University of California San Diego, USA, ²National Institute for Microscopy and Imaging Research, USA

11:00 Taste Responses to Changes in Dietary Needs

24 Anupama Dahanukar
University of California-Riverside, USA

11:20 Receptor and Neural Circuit Coding Chemosignal Valence

25 Kazu Touhara
The University of Tokyo

WEDNESDAY

PROGRAM IN DETAIL

WEDNESDAY, CONTINUED

OUTREACH EVENT	
9:00 am - 12:00 pm	Imaginarium Science Center
Imaginarium Community Outreach	

MEETING	
12:00 pm - 4:00 pm	Blue Heron AB
ACChemS Executive Committee Meeting	

WELCOME/AWARDS CEREMONY	
5:00 pm - 6:00 pm	Calusa A-D

GIVAUDAN LECTURE	
6:00 pm - 7:00 pm	Calusa A-D

6:00 Regulation of Epidermal Homeostasis by Intercellular Communication
 26 Fiona Watt, PhD
King's College London

Givaudan

WELCOME BANQUET (TICKET REQUIRED)	
7:00 pm - 9:00 pm	Pool Deck & Cypress Courtyard

GRADUATE STUDENT HAPPY HOUR	
9:00 pm - 11:00 pm	Mangroves Patio

WEDNESDAY

PROGRAM IN DETAIL

THURSDAY, APRIL 27, 2017

BREAKFAST CORNERS WITH INDUSTRY

7:30 am - 9:00 am

Estero Terrace

Participating Partners (see page 6 for more information):



THURSDAY



THURSDAY, CONTINUED

POSTER SESSION I

8:00 am - 10:30 am

Estero Ballroom

ANOSMIA

- P101 27 **Olfactory Dysfunction in Neurological Diseases: Is There a Common Pathological Substrate?**
Richard Doty
Smell & Taste Center Perelman School of Medicine University of Pennsylvania, Philadelphia, PA, USA
- P102 28 **Influence of Diabetes Mellitus Type 1, Hypothyroidism and Allergic Rhinitis on Olfactory Function in a Pediatric Population**
Marie-Luise Gruhn, Valentin Alexander Schriever
Department of Neuropediatrics, TU Dresden, Dresden, Germany  AChemS Undergrad Award Finalist
- PD1 29 **Using Virtual Reality To Optimize The Surgical Treatment Of Olfactory Losses Due To Nasal Obstruction**
Bradley Hittle¹, Chengyu Li², Hector J Medina-Fetterman¹, Bradley A Otto², Alexander A Farag², Gregory J Wiet^{2,3}, Don Stredney¹, Kai Zhao³
¹Ohio Supercomputer Center, Columbus, OH, USA, ²Department of Otolaryngology - Head & Neck Surgery, The Ohio State University, Columbus, OH, USA, ³Department of Otolaryngology - Head & Neck Surgery, Nationwide Children Hospital, Columbus, OH, USA
- P103 30 **Smell Impairment Among US Adults Aged >40 Years: The National Health and Nutrition Examination Survey (NHANES), 2011-2014**
Howard J. Hoffman¹, Chuan-Ming Li¹, Shristi Rawal², Katalin G. Losonczy¹, John E. Hayes³, Valerie B. Duffy⁴
¹Epidemiology and Statistics Program, National Institute on Deafness and Other Communication Disorders (NIDCD), National Institutes of Health (NIH), Bethesda, MD, USA, ²Division of Intramural Population Health Research, Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), National Institutes of Health (NIH), Bethesda, MD, USA, ³Department of Food Science, Pennsylvania State University, University Park, PA, USA, ⁴Department of Allied Health Science, University of Connecticut, Storrs, CT, USA
- P104 31 **Reduced Intrinsic Cortical Connectivity in Anosmia**
Johan N. Lundström^{1,2,3}, Moa G. Peter¹, Hagen Kitzler⁴, Amelie Betz⁴, Thomas Hummel⁴
¹Karolinska Institutet, Stockholm, Sweden, ²Monell Chemical Senses Center, Philadelphia, PA, USA, ³University of Pennsylvania, Philadelphia, PA, USA, ⁴Technical University Dresden, Dresden, Germany

THURSDAY

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

PD Poster Numbers are Digital Poster Presentations and are located in the dedicated Digital Poster Area of the Poster Hall.

Posters should be mounted by 7:30 am and taken down at 11:00 pm. Posters are on display all day.

- P105 **Individuals with Anosmia Demonstrate Enhanced Performance in a Multisensory Binding Task**
 32 Moa G. Peter¹, Danja K. Porada¹, Christina Regenbogen^{1,2,3}, Mats J. Olsson¹, Johan N. Lundström^{1,4,5}
¹Department of Clinical Neuroscience, Karolinska Institutet, Stockholm, Sweden, ²Department of Psychiatry, Psychotherapy and Psychosomatics, Medical School, RWTH Aachen University, Aachen, Germany, ³JARA - BRAIN Institute 1: Structure Function Relationship, Jülich, Germany, ⁴Monell Chemical Senses Center, Philadelphia, PA, USA, ⁵Department of Psychology, University of Pennsylvania, Philadelphia, PA, USA
- P106 **Dietary Patterns and Food Preferences in a Population of Dutch Patients Suffering From Smell Loss**
 33 Elbrich M. Postma^{1,2}, Lisan Jonker¹, Sanne Boesveldt¹
¹Division of Human Nutrition, Wageningen University, Wageningen, Netherlands, ²Smell and Taste Centre, Hospital Gelderse Vallei, Ede, Netherlands
- P107 **Development of an International Odor Identification Test for Children**
 34 Valentin A Schriever
 Department of Neuropediatrics, TU Dresden, Dresden, Germany

COGNITION


- P108 **In Search of a Grid-like Code in Human Olfactory Navigation**
 35 Xiaojun Bao, Eva Gjorgieva, James D Howard, Thorsten Kahnt, Jay A Gottfried
 Northwestern University, Chicago, IL, USA
- P109 **Cognitive Load Alters Neuronal Processing of Food Odors**
 36 Sonja M Hoffmann-Hensel¹, Rik Sijben¹, Rea Rodriguez-Raecke^{1,2}, Jessica Freiherr^{1,2}
¹Diagnostic and Interventional Neuroradiology, University Hospital, RWTH Aachen University, Aachen, Germany, ²Fraunhofer Institute for Process Engineering and Packaging IVV, Freising, Germany
- P110 **Memory Enhances Search Strategies During Odor-Guided Foraging**
 37 Brian J Jackson¹, Sujean Oh¹, Venkatesh Gopal², Agnese Seminara³, Gusti Lulu Fatima¹, David H Gire¹
¹Department of Psychology, University of Washington, Seattle, WA, USA, ²Physics Department, Elmhurst College, Elmhurst, IL, USA, ³CNRS, Univ. Nice Sophia Antipolis, Nice, France
- P111 **Event Related Potentials for Olfaction and Gustation, During Simultaneous Judgement**
 38 Tatsu Kobayakawa, Naomi Gotow
 National Institute of Advanced Industrial Science and Technology, Tsukuba, Ibaraki, Japan

THURSDAY

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- P112 **Subjective and Objective Evaluation of the Olfactory System After a Mild Traumatic Brain Injury**  Don Tucker Award Finalist
39 Fanny Lecuyer^{1,2,4}, Joelle Robert^{2,7}, Karine Nadeau-Paquet^{1,2}, Anas Nseir⁵, Jean-Francois Giguere², Louis de Beaumont^{2,3}, Elaine de Guise^{1,4,6}, Johannes Frasnelli^{2,3}
¹University of Montreal, Montreal, QC, Canada, ²Hopital Sacre-Coeur, Montreal, QC, Canada, ³Université du Québec à Trois-Rivières, Trois-Rivières, QC, Canada, ⁴Centre de recherche interdisciplinaire en réadaptation du Montréal métropolitain, Montreal, QC, Canada, ⁵Hopital Santa-Cabrini, Montreal, QC, Canada, ⁶Research Institute-McGill University Health Center, Montreal, QC, Canada, ⁷University of Sherbrooke, Montreal, QC, Canada
- P113 **Change in Detection Thresholds Following Low-Level, Intermittent, Long-Term Exposure to Sweat Malodor Model**
40 Krytyna M. Rankin, Aleksey Dumer, Anshul Jain
International Flavors & Fragrances Inc., Union Beach, NJ, USA
- P114 **Consistency of Odor Perception: Effect of Training**
41 Nao Takayama¹, Saho Ayabe-Kanamura²
¹Graduate School of Comprehensive Human Sciences, University of Tsukuba, Tsukuba, Japan, ²Faculty of Human Sciences, University of Tsukuba, Tsukuba, Japan
- P115 **Olfactory Awareness Predicts the Value of Olfactory Cues in Romantic Interest**
42 Theresa L. White^{1,2}, Caitlin Cunningham¹
¹Le Moyne College, Syracuse, NY, USA, ²SUNY Upstate Medical University, Syracuse, NY, USA

DISCRIMINATION

- P116 **Flavor Adaptation and Recovery**
43 Cristina Jaen, Christopher Maute, Pamela Dalton
Monell Chemical Senses Center, Philadelphia, PA, USA
- P117 **Sucrose but not Salt Thresholds are Associated with Food Neophobia in Children**
44 Paule V. Joseph¹, Nuala K. Bobowski^{2,3}, Danielle R. Reed², Julie A. Mennella²
¹National Institutes of Health/ NINR, Bethesda, MD, USA, ²Monell Chemical Senses Center, Philadelphia, PA, USA, ³St. Catherine University, St. Paul, MN, USA
- P118 **Indiscriminability of Equicaloric Sucrose and Glucose Sweetened Beverages**
45 Matthew C. Kochem¹, Paul A.S. Breslin^{1,2}
¹Rutgers University Department of Nutritional Sciences, New Brunswick, NJ, USA, ²Monell Chemical Senses Center, Philadelphia, PA, USA
- P119 **Taste Associations with Depression in US Adults Aged 40+ Years: The National Health and Nutrition Examination Survey (NHANES), 2011-2014**
46 Chuan-Ming Li¹, Howard J. Hoffman¹, Shristi Rawal², Nadia K. Byrnes³, John E. Hayes³, Valerie B. Duffy⁴
¹Epidemiology and Statistics Program, National Institute on Deafness and Other Communication Diseases (NIDCD), National Institutes of Health (NIH), Bethesda, MD, USA, ²Division of Intramural Population Health Research, Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), National Institutes of Health (NIH), Bethesda, MD, USA, ³Department of Food Science, Pennsylvania State University, University Park, PA, USA, ⁴Department of Allied Health Sciences, University of Connecticut, Storrs, CT, USA

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- P120
47 **Perceptual Similarities of Intensity Matched Food Grade Bitterants Obtained with a Semantic Free Task**
Elliott McDowell^{1,2}, John E Hayes^{1,2}
¹Sensory Evaluation Center, The Pennsylvania State University, University Park, PA, USA, ²Department of Food Science, The Pennsylvania State University, University Park, PA, USA
- P121
48 **Olfactory Training with Clients Suffering from Depressive Disorders**
Luise D Pabel¹, Julia Murr¹, Kerstin Weidner¹, Thomas Hummel², Ilona Croy¹
¹Dept. of Psychotherapy and Psychosomatic Medicine, University Hospital, Dresden, Germany, ²Smell & Taste Clinic, Dept. of ORL, TU Dresden, Dresden, Germany
- P122
49 **Investigation of a New Chemosensory Method Using Three Taste Inhibitors to Study the Taste Perception Mechanism in Domestic Cats: Examples of Bitter, Umami and Kokumi Tastes**
Wiktorja Stawowska¹, Aurélie De Ratuld¹, Fabrice Neiers², Loïc Briand²
¹Diana Pet Food, Elven, France, ²Centre des Sciences du Goût et de l'Alimentation, CNRS, INRA, Univ. Bourgogne Franche-Comté, Dijon, France
- P123
50 **Effect of Olfactive Costimulation on Trigeminal Localisation**
Cécilia Tremblay¹, Étienne Ouellet¹, Johannes Frasnelli^{1,2}
¹Université du Québec à Trois-Rivières, Trois-Rivières, QC, Canada, ²Sacré-Coeur Hospital, Montréal, QC, Canada

OLFACTORY RECEPTOR NEURONS

- P124
51 **Chemical Exposure Alters the Gene Expression of Neurotrophins and their Receptors in the Main Olfactory System Differently Between Wild Type and Skn-1A Knockout Mice**
Abdullah Al-Matrouk, Chantel Wilson, Tatsuya Ogura, Weihong Lin
University of Maryland Baltimore County, Biology Department, Baltimore, MD, USA
- P125
52 **A Critical Test of the Sorption Hypothesis in the Mouse: Comparisons of Simulated Odorant Sorption Patterns with Regional Electroolfactogram Responses Across the Olfactory Epithelium.**
David/M Coppola¹, Brittaney Ritchie¹, Brent/A Craven²
¹Biology, Randolph-Macon College, Ashland, VA, USA, ²Mechanical & Nuclear Engineering, Pennsylvania State University, Penn State, PA, USA
- P126
53 **A Single Identified Glomerulus in the Zebrafish Olfactory Bulb Carries the High-Affinity Response to the Death-associated Odor Cadaverine**
Milan Dieris, Gaurav Ahuja, Venkatesh Krishna, Sigrun Korsching
University of Cologne, Cologne, Germany
- P127
54 **The Effect of Intranasal Sodium Citrate on Olfaction in Postinfectious Loss: Results from a Prospective, Placebo-Controlled Trial in 49 Patients**
M. Ezzat, K. Whitcroft, M. Cuevas, T. Hummel
Interdisciplinary Smell and Taste Clinic, TU Dresden, Dresden, Germany

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- P128** **TRPM5-Expressing Microvillous Cells in the Mouse Main Olfactory Epithelium Modulate Resting Ca^{2+} Levels of Olfactory Sensory Neurons and Endocytosis in Supporting Cells**
 55 Ziyang Fu, Tatsuya Ogura, Weihong Lin
Department of Biological Sciences, University of Maryland Baltimore County, Baltimore, MD, USA
- P129** **Characterizing the Role of Zinc Metal Nanoparticles in the Initial Events of Olfaction**
 56 Samantha Hagerty¹, Melissa Singletary¹, Oleg Pustovyy¹, Ludmila Globa¹, Iryna Sorokulova¹, Yasmine Daniels², William MacCrehan², Shin Muramoto², Gheorghe Stan², June Lau², Gopikrishna Deshpande³, Edward Morrison¹, Vitaly Vodyanoy¹
¹Department of Anatomy, Physiology, and Pharmacology, Auburn University College of Veterinary Medicine, Auburn, AL, USA, ²Material Measurement Laboratory, National Institute of Standards and Technology, Gaithersburg, MD, USA, ³AU MRI Research Center, Department of Electrical & Computer Engineering, Auburn, AL, USA
- P130** **Identification of Preplacodal Region (PPR) Markers in Human Olfactory Differentiation**
 57 Moritz Klingenstein, Stefanie Raab, Stefan Liebau
Institute of Neuroanatomy, Eberhard Karls University Tübingen, Tübingen, Germany
- P131** **TAARs and Odor Valence**
 58 Qian Li^{1,2}, Kristian Herrera³, Josua Jordi³, Florian Engert³, Stephen Liberles²
¹Neuroscience Division, Departments of Anatomy, Histology, and Embryology, Shanghai Jiao Tong University School of Medicine, Shanghai, China, ²Department of Cell Biology, Harvard Medical School, Boston, MA, USA, ³Department of Molecular and Cellular Biology and Center for Brain Science, Harvard University, Cambridge, MA, USA
- P132** **Predicting Olfactory Receptor Responses to Mixtures Using a Competitive Binding Model**
 59 Vijay Singh¹, Nicolle R. Murphy², Vijay Balasubramanian¹, Joel D. Mainland^{1,2}
¹University of Pennsylvania, Philadelphia, PA, USA, ²Monell Chemical Senses Center, Philadelphia, PA, USA
- PD2** **Restoration of Olfactory Epithelium Ciliation and Odorant Detection in BBS4 Loss-of-function Model of Bardet-Biedl Syndrome**
 60 Cedric R Uyttingco^{1,2}, Corey L Williams^{1,2}, Warren W Green^{1,2}, Dana T Shively¹, Lian Zhang^{1,2}, Val C Sheffield³, Jeffrey R Martens^{1,2}
¹Department of Pharmacology and Therapeutics, University of Florida College of Medicine, Gainesville, FL, USA, ²University of Florida Center for Smell and Taste, Gainesville, FL, USA, ³Department of Pediatrics and Howard Hughes Medical Institute, University of Iowa, Iowa City, IA, USA

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PHEROMONES

- P133 61 Role of InsP3 and InsP3R3 in Vomeronasal Calcium Signaling and Trpc2 Function**
 Pablo Chamero^{1,2}, Jan Weiss¹, Maria Teresa Alonso³, Trese Leinders-Zufall¹, Frank Zufall¹
¹Center for Integrative Physiology and Molecular Medicine, Saarland University, 66424, Homburg, Germany, ²Laboratoire de Physiologie de la Reproduction & des Comportements, UMR85, INRA-CNRS-Université de Tours, Nouzilly, France, ³Instituto de Biología y Genética Molecular, University of Valladolid and CSIC, Valladolid, Spain
- P134 62 The PROUST Hypothesis: How Olfactory Systems Map the Meaning of Odors Across Space and Time**
 Lucia Jacobs
 Univ Calif, Berkeley, CA, USA
- P135 63 Sex-Specific Effects of Gonadectomy and Hormone Replacement on Performance of a Go/No-Go Odor Discrimination Task in Mice.**
 Tenzin Kunkhyen¹, Allison Coyne¹, Emma Perez¹, Michael Baum², James Cherry¹
¹Department of Psychological and Brain Sciences, Boston University, Boston, MA, USA, ²Department of Biology, Boston University, Boston, MA, USA
- P136 64 DREADD-Induced Silencing of the Medial Amygdala Reduces the Preference for Male Pheromones and the Expression of Lordosis in Estrous Female Mice**
 Elizabeth A. McCarthy¹, Matthew Bass¹, Arman Maqsudlu¹, Sofia Georghiou¹, James A. Cherry², Micheal J. Baum¹
¹Department of Biology, Boston University, Boston, MA, USA, ²Department of Psychological and Brain Sciences, Boston, MA, USA

TASTE RECEPTOR CELLS

- P137 65 Ionotropic Receptors Mediate Drosophila Oviposition Preference through Sour Gustatory Sensory Neurons**
 Yan Chen, Hubert Amrein
 Department of Molecular and Cellular Medicine, College of Medicine, Texas A&M University Health Science Center, College Station, TX, USA
- P138 66 The Localization of TAS2R7 in Artery and Pancreas**
 Jing-guo Chen¹, Ping-ping Yan¹, Jin Wang¹, Yan Cai², Lei Cao¹, Yong-xiao Cao¹
¹Department of Pharmacology, School of Basic Medical Sciences, Xi'an Jiaotong University Health Science Center, Xi'an, China, ²Department of Pharmacy, the First Affiliated Hospital of Xi'an Jiaotong University, Xi'an, China
- P139 67 Identifying the Functional Bitter Taste Receptors, their Antagonist and Aging Effect on Bitter Taste Sensitivity in Chickens**
 Bapon Dey, Fuminori Kawabata, Yuko Kawabata, Shotaro Nishimura, Shoji Tabata
 Laboratory of Functional Anatomy, Faculty of Agriculture, Kyushu University, Fukuoka, Japan

 **Don Tucker Award Finalist**

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- P140 68 Glucose Elicits Cephalic-Phase Insulin Release in Mice by Activating KATP Channels in Taste Cells**
John Glendinning¹, Yonina Frim¹, Ayelet Hochman¹, Gabrielle Lubitz¹, Anthony Basile², Anthony Sclafani³
¹Barnard College, Columbia University, New York, NY, USA, ²Columbia University, New York, NY, USA, ³Brooklyn College of CUNY, Brooklyn, NY, USA
- P141 69 Man vs. Mouse: Comparative Histology of Chemosensory Architecture in the Larynx**
Marie E. Jetté^{1,2}, Sue C. Kinnamon^{1,2}, Thomas E. Finger^{1,2}
¹University of Colorado School of Medicine, Aurora, CO, USA, ²Rocky Mountain Taste and Smell Center, Aurora, CO, USA
- P142 70 Function of the Extracellular Calcium-Sensing Receptor (CaSR) in Chicken Oral Tissues**
Fuminori Kawabata, Hikaru Otori, Yuko Kawabata, Shotaro Nishimura, Shoji Tabata
Kyushu University, Fukuoka, Japan
- P143 71 Role of Opsins in Drosophila Bitter Taste**
Nicole Y Leung^{1,2}, Chao Liu^{1,2}, Sang Hoon Kim³, Adishti Gurav^{1,2}, Craig Montell^{1,2}
¹Neuroscience Research Institute, University of California Santa Barbara, Santa Barbara, CA, USA, ²Department of Molecular, Cellular and Developmental Biology, University of California Santa Barbara, Santa Barbara, CA, USA, ³Department of Biological Chemistry, School of Medicine, Johns Hopkins, Baltimore, MD, USA
- P144 72 Expression of Umami Taste Receptors and Behavioral Reactions to Umami Taste in Chickens**
Yuta Yoshida, Fuminori Kawabata, Yuko Kawabata, Shotaro Nishimura, Shoji Tabata
Laboratory of Functional Anatomy, Faculty of Agriculture, Kyushu University, Fukuoka, Japan



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PROGRAM IN DETAIL

THURSDAY, CONTINUED

COFFEE BREAK	
9:00 am - 10:30 am	Estero Foyer
SYMPOSIUM	
10:30 am - 12:10 pm	Calusa A-C
Regulation of Sensory Cell Turnover	

Chairs: Kathryn Medler and Robin Krimm

10:30 Introduction

73 Kathryn Medler¹, Robin Krimm²

¹University at Buffalo, Buffalo, MB, USA, ²University of Louisville, Louisville, KY, USA

10:40 Innervating New Taste Receptor Cells in Adulthood

74 Robin Krimm

University of Louisville School of Medicine, Louisville, KY, USA

11:05 Primary Cilia on Basal Stem Cells Regulate Regeneration of the Olfactory Epithelium

75 Warren W. Green^{1,2}, Ariell M. Joiner³, Jeremy C. McIntyre^{2,4}, Benjamin L. Allen⁵, James E. Schwob⁶, Jeffrey R. Martens^{1,2}

¹Department of Pharmacology & Therapeutics, University of Florida, College of Medicine, Gainesville, FL, USA, ²University of Florida Center for Smell and Taste, Gainesville, FL, USA, ³Department of Pharmacology, University of Michigan Medical School, Ann Arbor, MI, USA, ⁴Department of Neuroscience, University of Florida, College of Medicine, Gainesville, FL, USA, ⁵Department of Cell and Developmental Biology, University of Michigan Medical School, Ann Arbor, MI, USA, ⁶Department of Developmental, Molecular, and Chemical Biology, Tufts University School of Medicine, Boston, MA, USA

11:20 Plasticity of Mechanosensory Merkel-Cell Afferents During Healthy Tissue Remodeling

76 Ellen A Lumpkin, Rachel C Clary, Kara L Marshall, Yoshichika Baba
Dept. of Physiology & Cellular Biophysics, New York, NY, USA

11:45 Transcription Factors that Regulate Taste Cell Maintenance

77 Kathryn F Medler, Yankun Gao, Jayasha Shandilya, Stefan GE Roberts
University at Buffalo, Buffalo, NY, USA

THURSDAY

PROGRAM IN DETAIL

THURSDAY, CONTINUED

SYMPOSIUM	
10:30 am - 12:10 pm	Calusa F-H
TRP Channels in Model Organisms: Roles in Sensation and Behavior	

Chair: Craig Montell

10:30	Introduction
78	Craig Montell
10:40	TRP Channels as Sensors of Bacterial Endotoxins
79	Karel Talavera <i>KU Leuven, Leuven, Belgium</i>
11:05	An Essential Role for Trpc5 in Hypothalamic Hormone Regulation
80	Thomas Blum ¹ , Ana Moreno-Pérez ¹ , Anela Arifovic ¹ , Petra Weissgerber ² , Veit Flockerzi ² , Marc Freichel ³ , Frank Zufall ¹ , Trese Leinders-Zufall ¹
 Don Tucker Award Finalist	¹ Center for Integrative Physiology and Molecular Medicine, Saarland University, Homburg, Germany, ² Department of Pharmacology and Toxicology, Saarland University, Homburg, Germany, ³ Institute of Pharmacology, University of Heidelberg, Heidelberg, Germany
11:20	TRP Channel Function and Regulation in C. elegans
81	Shawn Xu <i>University of Michigan, Ann Arbor, MI, USA</i>
11:45	TRP Ion Channels as Key Targets of Tobacco and Electronic Cigarette Irritants and Flavor Additives
82	Sairam V Jabba ^{1,2} , Lu Fan ² , Shrilatha Balakrishna ² , Pamela Bonner ^{1,2} , Seth R Taylor ² , Kayvon Ghoreschi ³ , Gregory J Smith ³ , Hanno Erythropel ^{2,4} , Tamara DeWinter ^{2,4} , Julie B Zimmerman ^{2,4} , John B Morris ³ , Marina R Picciotto ² , Sven E Jordt ^{1,2}
	¹ Department of Anesthesiology, Duke University School of Medicine, Durham, NC, USA, ² Yale Tobacco Center of Regulatory Science (TCORS), Department of Psychiatry, Yale School of Medicine, New Haven, CT, USA, ³ Department of Pharmaceutical Sciences, University of Connecticut, Storrs, CT, USA, ⁴ Department of Chemical and Environmental Engineering, Yale University, New Haven, CT, USA

THURSDAY

MEETING	
12:30 pm - 1:30 pm	Sanibel
Chemical Senses Editorial Board Meeting	

LUNCHEON	
12:30 pm - 1:30 pm	Cove at Tarpon Bay
Travel Fellowships for Diversity Award Recipients Luncheon	

PROGRAM IN DETAIL

THURSDAY, APRIL 27, 2017

CLINICAL SYMPOSIUM

1:30 pm - 3:30 pm

Calusa A-D

Chemical Senses in Cancer and Cancer Therapy

Chairs: Valerie Duffy and Thomas Hummel

- 1:30 83 Implications for Alleviating Chemosensory Alterations with Cancer Treatments: Connecting Patient Reports with Clinical Assessments and the Basic Science of Sensory Signaling**
Valerie B Duffy
Allied Health Sciences, University of Connecticut, Storrs, CT, USA
- 2:00 84 Taste Disorders in Patients: Symptoms, Diagnosis and Management**
Miriam Grushka^{1,2}
¹*William Osler Health System, Department of Dentistry, Active Staff, Toronto, ON, Canada, ²Hamilton General Hospital, Courtesy Staff, Hamilton, ON, Canada*
- 2:30 85 Mouse Studies with HH Pathway Inhibitor Drugs: Biology of Taste Disruption and Recovery**
Archana Kumari¹, Alexandre N Ermilov², Benjamin L Allen³, Andrzej A Dlugosz^{2,3}, Robert M Bradley¹, Charlotte M Mistretta¹
¹*Department of Biologic and Materials Sciences, School of Dentistry, University of Michigan, Ann Arbor, MI, USA, ²Department of Dermatology, Medical School, University of Michigan, Ann Arbor, MI, USA, ³Department of Cell and Developmental Biology, Medical School, University of Michigan, Ann Arbor, MI, USA*
- 3:00 86 Oral Sensory Changes in Cancer Therapies: A Clinical Perspective**
Anna G Boltong^{1,2}, Sanchia Aranda³, Rochelle Wynne⁴, Russell Keast⁴
¹*Cancer Council Victoria, Melbourne, Australia, ²The University of Melbourne, Melbourne, Australia, ³Cancer Council Australia, Sydney, Australia, ⁴Deakin University, Geelong, Australia*

THURSDAY

WORKSHOP

3:40 pm - 5:40 pm

Calusa F-H

The Barry Davis Workshop: Funding Opportunities for the New Investigator

WORKSHOP

3:45 pm - 5:15 pm

Captiva

RNAseq Interest Group and Workshop

CAREER/NETWORKING SOCIAL

5:45 pm - 7:30 pm

Estero Foyer

PROGRAM IN DETAIL

THURSDAY, CONTINUED

PRESIDENT'S SYMPOSIUM

7:00 pm - 9:00 pm

Calusa A-D

Tell Me About it: Intraspecies Social Communication in Mammals and Insects

Chair: Steven Munger

7:00 **Introduction**

87 Steven D. Munger^{1,2}

¹University of Florida Center for Smell and Taste, Gainesville, FL, USA, ²University of Florida Dept. Pharmacology and Therapeutics, Gainesville, FL, USA

7:10 **Social Communication of Condition-Dependent Olfactory Signals in**
88 **Strepsirrhine Primates**

Christine M. Drea

Duke University, Durham, NC, USA

7:45 **Cooperation and Conflict in Social Insect Societies: From Pheromones to**
89 **Genes**

Christina M. Grozinger

Department of Entomology, Center for Pollinator Research, Penn State University, University Park, PA, USA

8:20 **Leveraging Olfaction to Study Motivated Behavior in the Mouse**

90 Lisa Stowers

The Scripps Research Institute, La Jolla, CA, USA

THURSDAY



THURSDAY, CONTINUED

POSTER SESSION II

9:00 pm - 11:00 pm

Estero Ballroom

DEVELOPMENT

- P201 **Neurofibromatosis 2 (NF2) in Tongue Mesenchyme is a Key Factor for the Normal Development of Tongue and Taste Papillae**
 91 Guiqian Chen¹, Mohamed Ishan¹, Xiusheng Wang¹, Wenxin Yu¹, Xinwei Cao², Marco Giovannini³, Hong-Xiang Liu¹
¹University of Georgia, Athens, GA, USA, ²St Jude Children's Research Hospital, Memphis, TN, USA, ³University of California Los Angeles, Los Angeles, CA, USA
- P202 **Cellular Mechanisms of Taste Placode Differentiation**
 92 Erin J. Golden, Linda A. Barlow
 University of Colorado School of Medicine, Dept. of Cell & Developmental Biology, Aurora, CO, USA
- P203 **Mesenchyme-Specific Activation of BMP Receptor ALK2, but not ALK3, Results in Altered Tongue Formation and Cell Differentiation**
 93 Mohamed Ishan¹, Guiqian Chen¹, Sunny Patel¹, Brett Marshall¹, Yuji Mishina², Hong-Xiang Liu¹
¹Regenerative Bioscience Center, Department of Animal and Dairy Science, University of Georgia, Athens, GA, USA, ²Department of Biologic and Materials Science, School of Dentistry, University of Michigan, Ann Arbor, MI, USA
- P204 **HHIP1 Antagonism of HH Signaling: Evidence for Regulation of Filiform Papilla, Fungiform Papilla and Taste Bud Pattern and Maintenance**
 94 Charlotte M Mistretta¹, Archana Kumari¹, Libo Li¹, Alexandre N Ermilov², Andrzej A Dlugosz^{2,3}, Benjamin L Allen³
¹Department of Biologic and Materials Sciences, School of Dentistry, University of Michigan, Ann Arbor, MI, USA, ²Department of Dermatology, Medical School, University of Michigan, Ann Arbor, MI, USA, ³Department of Cell and Developmental Biology, Medical School, University of Michigan, Ann Arbor, MI, USA
- P205 **The "Open Essence" for Kids: A 12-Item Odor Identification Test for Children**
 95 Eri Mori, Yuiko Sugita, Masayoshi Tei, Ayako Kurashima, Nobuyoshi Otori
 Department of Otorhinolaryngology, Jikei University, School of Medicine, Tokyo, Japan
- P206 **Ratings of Ethanol Bitterness Differ Among Women and are Determined in Part by Genetic Variation**
 96 Alissa A. Nolden, Phoebe Mathew, Corrine Mansfield, Liang-Dar Daniel Hwang, Danielle R. Reed, Julie A. Mennella
 Monell Chemical Senses Center, Philadelphia, PA, USA

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- P207 **Formation of the Olfactory Bulbs and Connection of the Olfactory/Vomeronasal Neurons to the Brain are Not Needed for GnRH-1 Neuronal Migration to the Hypothalamus.**

97 Ed Zandro Taroc, Aparna Prasad, Paolo E. Forni
University at Albany, Albany, NY, USA

HEDONICS

- P208 **Multisensory Integration of Flavor Cues During Food Choice Behavior**

98 Joost X Maier, Victoria Elliott
Wake Forest School of Medicine, Winston Salem, NC, USA

- P209 **Inter- and Intra-mouse Variability in Odor Preference Behaviors**

99 Adrianna J. Milton¹, Sonum Jagetia¹, Lucas A. Stetzk¹, Nathalie Mandairon², Daniel W. Wesson¹
¹*Department of Neurosciences, Case Western Reserve University, Cleveland, OH, USA*, ²*INSERM U1028, CNRS UMR5292, Lyon Neuroscience Research Center, Neuroplasticity and Neuropathology of Olfactory Perception Team, F-69000, Lyon, France*

- P210 **Effect of NaCl on Taste Preferences for L-Histidine in C57BL/6 Mice**

100 Yuko Murata¹, Alexander A. Bachmanov²
¹*National Research Institute of Fisheries Science, Japan Fisheries Research and Education Agency, Yokohama, Japan*, ²*Monell Chemical Senses Center, Philadelphia, PA, USA*

- P211 **Sweet Perception in Hispanic Young Adults: Insights from Psychophysics and fMRI**

101 Claire Murphy^{1,2,3}, Jacquelyn Szajer³, Aaron Jacobson¹, Erin Green^{3,4}
¹*San Diego State University, San Diego, CA, USA*, ²*University of California, San Diego, San Diego, CA, USA*, ³*SDSU/UCSD Joint Doctoral Program, San Diego, CA, USA*, ⁴*Stanford University, Palo Alto, CA, USA*

- P212 **The Smell of Prejudice. Body Odor Disgust Sensitivity Moderates the Effect of Disgusting Smells on Implicit Prejudice**

102 Jonas K Olofsson^{1,2}, Marco Tullio Liuzza^{1,3}, Leo Derkert¹, Torun Lindholm¹, Maria Larsson¹
¹*Stockholm University, Stockholm, Sweden*, ²*Swedish Collegium for Advanced Study, Uppsala, Sweden*, ³*Magna Graecia University, Catanzaro, Italy*

- P213 **Orbitofrontal Cortex Signals Reward Prediction Errors for Food Odor Identity Using a Perceptual Similarity Coding Scheme**

103 Javier A. Suarez, Thorsten Kahnt
Northwestern University, Chicago, IL, USA

INGESTION

- P214 **Somatosensory Contributions to Food Oral Processing**

104 Yalda Moayedi, Lucia Duenas-Bianchi, Chi-Kun Tong, Ellen A Lumpkin
Department of Physiology and Cellular Biophysics, Columbia University Medical Center, New York, NY, USA

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- P215 **Dynamic Perception of Encapsulated Flavors**
 105 Marco P. Morgenstern¹, Dulce Paredes², Esther H-J. Kim¹, Lidia Motoi¹, Markus Eckert², Yukiko Wadamori¹, Carter Green²
¹The New Zealand Institute for Plant & Food Research Ltd, Christchurch, New Zealand, ²Takasago International Corporation (USA), Rockleigh, NJ, USA
- P216 **Baby Food but Not 25% Sucrose Increases the Palatability of Antiretroviral Pdelivered by an Innovative Freeze-Dried Fast-Dissolving Tablet Formulation to Rats**
 106 David W Pittman¹, Alexandra M Brantly¹, Alexandra L Drobonick¹, Hannah T King¹, Daniel C Mesta¹, Caroline G Richards¹, Manjari Lal², Manshun Lai²
¹Department of Psychology, Wofford College, Spartanburg, SC, USA, ²PATH, Seattle, WA, USA
- P217 **A Simple Method for the Rapid Induction of Salt Appetite in Mice**
 107 Martin A. Raymond, Tasnia Chowdhury, Thomas G. Mast, Joseph M. Breza
 Eastern Michigan University, Ypsilanti, MI, USA
- P218 **Relationships Between Oral Health Measures, Sweet Taste Intensity, Liking, and Sugar-Sweetened Beverage Intake**
 108 Robin M. Tucker¹, Nicole L. Garneau², Tiffany M. Nuesse², Chelsea Jackle³
¹Michigan State University, East Lansing, MI, USA, ²Denver Museum of Nature and Science, Denver, CO, USA, ³Bowling Green State University, Bowling Green, OH, USA

LEARNING AND MEMORY

- P219 **Novelty Detection for Short Term Memory of Odors?**
 109 E. Leslie Cameron¹, Per Møller², EP Köster³
¹Carthage College, Kenosha, WI, USA, ²University of Copenhagen, Copenhagen, Denmark, ³University of Utrecht, Utrecht, Netherlands
- P220 **Environmental, Hormonal and Odorant-induced Changes in Odorant Receptor mRNA Expression in Pacific Salmon**
 110 Andrew Dittman¹, Darran May², Paul Hoppe³
¹Environmental Physiology Program, Northwest Fisheries Science Center, NOAA Fisheries, Seattle, WA, USA, ²School of Aquatic and Fishery Sciences, University of Washington, Seattle, WA, USA, ³Frank Orth and Associates, Northwest Fisheries Science Center, NOAA Fisheries, Seattle, WA, USA
- P221 **Nocturnal Olfactory Stimulation for Improvement of Sleep Quality in Patients with Posttraumatic Stress Disorder: An Exploratory Intervention Trial**
 111 Laura Donner^{1,2}, Julia Schellong¹, Antje Hähner², Kerstin Weidner¹, Thomas Hummel², Ilona Croy^{1,2}
¹Department of Psychosomatics, Technical University, Dresden, Germany, ²Smell and Taste Clinic, Department of ORI, Technical University, Dresden, Germany
- P222 **Flavor-Saltiness Integration is fAected by Eating Experiences**
 112 Takayuki Kawai¹, Yuko Kusakabe¹, Yuji Wada¹, Takehito Goto²
¹National Agriculture and Food Research Organization, Tsukuba, Japan, ²Yamagata Research Institute of Technology, Yamagata-Pref., Japan

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P223 113 Sommeliers: When Do these Experts Acquire their Olfactory Abilities?Daphnée Poupon¹, Daniel Vintrou², Johannes Frasnelli^{1,3}¹University of Quebec in Trois-Rivieres, Trois-Rivieres, QC, Canada, ²Center of Professional Formation Bel-Avenir, Trois-Rivieres, QC, Canada, ³Research Centre, Sacre Coeur Hospital, Montreal, QC, Canada**P224 114 Distinct Circuits Mediate Glomerular Enhancements for Trained and Untrained Stimuli Following Aversive Conditioning**

Jordan M. Ross, Max L. Fletcher

University of Tennessee Health Science Center/Department of Anatomy & Neurobiology, Memphis, TN, USA

Don Tucker
Award Finalist**P225 115 Investigating Neural Correlates of Olfactory Targeted Memory Reactivation in the Sleeping Human Brain**Laura K Shanahan, Eva Gjorgieva, Thorsten Kahnt, Jay A Gottfried
Northwestern University, Chicago, IL, USA**OLFACTORY BULB****P226 116 Neural Activity in the Human Olfactory Bulb Reflects Odor Perception**Arnaud Fournel¹, Emilia Iannilli², Marylou Mantel¹, Cedric Manesse¹, Carmen Licon¹, Camille Ferdenzi¹, Annett Werner², Thomas Hummel², Bensafi Moustafa¹¹Lyon Neuroscience Research Center, CNRS, Lyon, France, ²University of Dresden, Germany, Germany**P227 117 Permeabilization-Free Antibody Labeling for Correlative Serial Block-Face Scanning Electron Microscopy in the Mouse Olfactory Bulb**Kara A. Fulton^{1,2}, Kevin L. Briggman¹¹Circuit Dynamics and Connectivity Unit, National Institute of Neurological Disorders and Stroke, National Institutes of Health, Bethesda, MD, USA, ²Brown University, Providence, RI, USA**P228 118 Glomerulus-Specific Onset Latency of Odor-Evoked Calcium Response in the Juxtglomerular Cells of Mouse Olfactory Bulb**Ryota Homma¹, Xiaohua Lv², Shaoqun Zeng², Shin Nagayama¹¹University of Texas Health Science Center at Houston, Houston, TX, USA, ²Huazhong University of Science and Technology, Wuhan, China**P229 119 RNA-Seq Analysis of Developing Olfactory Bulb Projection Neurons**Fumiaki Imamura¹, Yuka Imamura Kawasawa¹, Anna C. Salzberg¹, Mingfeng Li², Nenad Sestan², Charles A. Greer²¹Penn State College of Medicine, Hershey, PA, USA, ²Yale School of Medicine, New Haven, CT, USA**P230 120 Olfactory Bulb Beta Oscillations and Granule Cell Excitability: Testing Model Predictions**Boleslaw L. Osinski¹, Leslie M. Kay²¹Biophysics, Institute for Mind and Biology, University of Chicago, Chicago, IL, USA,²Psychology, Institute for Mind and Biology, University of Chicago, Chicago, IL, USADon Tucker
Award Finalist**Poster Numbering Key:** The P# listed next to the poster title is the Poster Abstract Number and the Poster Board Number.**PD Poster Numbers** are Digital Poster Presentations and are located in the dedicated Digital Poster Area of the Poster Hall.

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P231 121 Margatoxin-Conjugated Quantum Dots as a Tool for Targeted Inhibition of the Voltage-Gated Potassium Channel Kv1.3 in the Olfactory Bulb

Austin B. Schwartz¹, Anshika Kapur¹, Zhenbo Huang¹, Raveendra Anangi², Zoltan Deklan², Erminia Fardone¹, Goutam Palui¹, Glenn F. King², Hedi Mattoussi¹, Debra A. Fadool¹

¹Florida State University, Tallahassee, FL, USA, ²University of Queensland, Brisbane, Australia

P232 122 Correlation of Nasal Thallium Migration to Olfactory Bulb and Olfactory Bulb Volume in Patients with Olfactory Impairment after Upper Respiratory Infection

Hideaki Shiga¹, Junichi Taki², Koichi Okuda³, Naoto Watanabe⁴, Hisao Tonami⁴, Seigo Kinuya², Takaki Miwa¹

¹Otorhinolaryngology, Kanazawa Medical University, Ishikawa, Japan, ²Nuclear Medicine, Graduate School of Medical Science, Kanazawa University, Ishikawa, Japan, ³Physics, Kanazawa Medical University, Ishikawa, Japan, ⁴Diagnostic and Therapeutic Radiology, Kanazawa Medical University, Ishikawa, Japan

P233 123 CCKergic Superficial Tufted Cells Drive Two Major Inhibitory Circuits in the Olfactory Bulb

Xicui Sun, Shaolin Liu

University of Maryland School of Medicine, Baltimore, MD, USA

OLFACTORY RECEPTOR NEURONS

P234 124 Divergence in the Olfactory System among Populations of *Drosophila mojavensis*

Byrappa Ammagarahalli, Amber Crowley-Gall, John Layne, Stephanie Rollmann

University of Cincinnati, Cincinnati, OH, USA

P235 125 Novel Olfactory Coding Mechanisms in Response to Repellent Odors

Jonathan T. Clark¹, Jadrian Ejercito², Ryan Arvidson², Anandasankar Ray²

¹Interdepartmental Neuroscience Program, University Of California, Riverside, Riverside, CA, USA, ²Department of Entomology, University Of California, Riverside, Riverside, CA, USA

P236 126 The Lifespan of Olfactory Sensory Neurons

Vera Gaun^{1,2}, Matthew J Zunitch^{1,2}, Brian Lin¹, Woonchan Jang¹, James E Schwob¹

¹Tufts University School of Medicine, Boston, MA, USA, ²Sackler School of Graduate Biomedical Sciences, Tufts University, Boston, MA, USA

P237 127 GC-D-Expressing and Grueneberg Ganglion Chemosensory Neurons Express Unique Molecular Signatures

Zhi Huang^{1,2}, Arthur D. Zimmerman^{1,2}, Steven D. Munger^{1,2}

¹University of Florida Center for Smell and Taste, Gainesville, FL, USA, ²University of Florida Dept. Pharmacology and Therapeutics, Gainesville, FL, USA

P238 128 Olfactory Loss in Humans: Exposure to Odors ("Olfactory Training") Changes Electrophysiological Responses at the Level of the Olfactory Epithelium

Thomas Hummel, Georg Stupka, Antje Haehner, Sophia C. Poletti

Smell & Taste Clinic, Dept. of ORL, TU Dresden, Dresden, Germany

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- P239 129 The Use of Mixture of Odors (Instead of a Single Odor) Increases Reliability of Olfactory Threshold Testing**
 Anna Oleszkiewicz¹, Robert Pellegrino², Katharina Pusch², Celine Margot², Thomas Hummel²
¹University of Wroclaw, Wroclaw, Poland, ²Interdisciplinary Center "Smell & Taste", Technical University Dresden, Dresden, Germany
- P240 130 Applied Body Odor Research in Humans: Impact of Anxiety Chemosignal Communication on the Performance of Dental Students**
 P.Bano Singh^{1,3}, Synnøve Lind¹, Alix Young¹, Marie C. Leegaard¹, Valentina Parma²
¹Institute of Clinical Dentistry, Faculty of Dentistry, University of Oslo, Oslo, Norway, ²International School for Advanced Studies (SISSA), Trieste, Italy, ³Faculty of Health Sciences, Oslo and Akershus University College of Applied Sciences, Oslo, Norway
- P241 131 Cyclophosphamide-Induced Disruptions of Salt Taste**
 Michael G Gomella, Benjamin C Jewkes, Evan T Lowry, Joy Benner, Eugene R Delay
 University of Vermont, Burlington, VT, USA
- P242 132 Molecular Genetic Lineage Tracing of Taste Bud Cells in Adult Mice.**
 Lauren Gross^{1,2}, Jennifer / K. Scott^{1,2}, David Castillo Azofeifa^{1,2,3}, Dany Gaillard^{1,2}, Linda / A. Barlow^{1,2}
¹Dept of Cell and Developmental Biology, University of Colorado School of Medicine, Aurora, CO, USA, ²Rocky Mountain Taste and Smell Center, University of Colorado School of Medicine, Aurora, CO, USA, ³Program in Craniofacial and Mesenchymal Biology and Department of Orofacial Sciences, University of California San Francisco, San Francisco, CA, USA
- P243 133 Light-Driven Responses from Putative Type I Taste Bud Cells Expressing Channelrhodopsin-2**
 Grace Houser¹, Joseph Breza², Kalyan Balasubramanian¹, Joseph Travers¹, Susan Travers¹
¹The Ohio State University, Columbus, OH, USA, ²Eastern Michigan University, Ypsilanti, MI, USA
- P244 134 Which Cell Detects Salty Taste in Fungiform Taste Buds?**
 [Jennifer K. Roebber¹, Stephen Roper^{1,2}, Nirupa Chaudhari^{1,2}]
¹Program in Neurosciences, University of Miami Miller School of Medicine, Miami, FL, USA, ²Department of Physiology and Biophysics, University of Miami Miller School of Medicine, Miami, FL, USA
- P245 135 The Taste of Blue Light**
 Courtney E Wilson^{1,2,3}, Sue C Kinnamon^{1,2,3}
¹University of Colorado School of Medicine Neuroscience Graduate Program, Aurora, CO, USA, ²University of Colorado School of Medicine Department of Otolaryngology, Aurora, CO, USA, ³University of Colorado Rocky Mountain Taste and Smell Center, Aurora, CO, USA
- P246 136 SOX10-Cre Labeled Cells are Distributed in Mature Taste Buds in Mouse Tongue and Soft Palate**
 Wenxin Yu, Guiqian Chen, Brett Marshall, Hongxiang Liu
 University of Georgia, Athens, GA, USA

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PROGRAM IN DETAIL

FRIDAY, APRIL 28, 2017

CONTINENTAL BREAKFAST

7:30 am - 9:00 am

Estero Foyer

FRIDAY



FRIDAY, CONTINUED

POSTER SESSION III

8:00 am - 10:30 am

Estero Ballroom

BRAINSTEM

P301 137 Neuronal Responses to Sugars and Amino Acids in the Nucleus of the Solitary Tract of T1R1+T1R3 and T1R2+T1R3 Double-Knockout MiceKalyanasundar Balasubramanian¹, Grace Houser¹, Ginger Blonde², Alan C Spector², Susan Travers¹¹Ohio State University, Columbus, OH, USA, ²Florida State University, Tallahassee, FL, USA**P302 138 Chemosensory Integration in the Brainstem: Transfer of Taste and Retronasal Odor Information Between NTS and PbN in Awake-Behaving Rats**

Olga D Escanilla, Patricia M Di Lorenzo

Department of Psychology, Binghamton University, Binghamton, NY, USA

P303 139 Postnatal Development of Dendrites in Hamster Rostral Nucleus of the Solitary Tract: a Quantitative Golgi AnalysisEmily E. Perszyk, Haley R. Roland, Beverly N. Bowring, Robert E. Stewart
Washington and Lee University, Lexington, VA, USA**P304 140 Optogenetic Stimulation of Gustatory Cortical Input onto the Nucleus of the Solitary Tract of the Rat Enhances Taste Information and Learning**Joshua D Sammons¹, Caroline E Bass², Jonathan D Victor³, Patricia M Di Lorenzo¹¹Dept of Psychology, Binghamton University, Binghamton, NY, USA, ²Dept of Pharmacology and Toxicology, University at Buffalo, SUNY, Buffalo, NY, USA,³Brain and Mind Research Institute, Weill Cornell Medical College, New York, NY, USA**P305 141 Maintenance of Gustatory Terminal Field Organization in the NST at Adulthood is Dependent on BDNF**

Chengsan Sun, Shuqiu Zheng, David L Hill

Dept. of Psychology, University of Virginia, Charlottesville, VA, USA

COGNITION

P306 142 Selective Attention Modulates Odor-Guided Behavior and Information Processing in the Olfactory TubercleKaitlin S. Carlson¹, Emma S. Dauster¹, Marie A. Gadziola¹, Daniel W. Wesson^{1,2}¹Case Western Reserve University, Department of Neurosciences, Cleveland, OH, USA, ²Case Western Reserve University, Department of Biology, Cleveland, OH, USA**Poster Numbering Key:** The P# listed next to the poster title is the Poster Abstract Number and the Poster Board Number.**PD Poster Numbers** are Digital Poster Presentations and are located in the dedicated Digital Poster Area of the Poster Hall.

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- P307 143 How Do People Quantify Flavors? Judging Flavor Qualities Versus Judging Flavor Stimuli**
 Kelly A. Morrow¹, Yaohua Xie^{1,2}, Maria G. Veldhuizen^{1,3}, Lawrence E. Marks^{1,2,4}
¹John B. Pierce Laboratory, New Haven, CT, USA, ²Department of Environmental Health Sciences, Yale School of Public Health, New Haven, CT, USA, ³Department of Psychiatry, Yale University School of Medicine, New Haven, CT, USA, ⁴Department of Psychology, Yale University, New Haven, CT, USA
- P308 144 Short- and Long-Term Habituation in Older and Younger Adults**
 Philipp Nahrath, Charlotte Sinding
Smell & Taste Clinic Department of Otorhinolaryngology, TU Dresden, Dresden, Germany
- P309 145 The Effect of Trait Resilience on Olfactory Sensitivity and Cortisol Reactivity Under Acute Stress**
 Katherine A. Pendergast, Jessica York, Kathleen Phelps, Irene N. Ozbek
University of Tennessee at Chattanooga, Chattanooga, TN, USA
- P310 146 Disease Detection: Volatile Biomarkers in Acute Inflammation**
 Georgia Sarolidou¹, Bruce A. Kimball^{2,3}, Julie Lasselin^{1,4,5}, John Axelsson^{1,5}, Mats Lekander^{1,5}, Johan N. Lundström^{1,2,6}, Mats J. Olsson¹
¹Department of Clinical Neuroscience, Karolinska Institutet, Stockholm, Sweden, ²Monell Chemical Senses Center, Philadelphia, PA, USA, ³U.S. Department of Agriculture, Animal and Plant Health Inspection Service, Wildlife Services National Wildlife Research Center, Philadelphia, PA, USA, ⁴Institute of Medical Psychology and Behavioral Immunology, Essen, Germany, ⁵Stress Research Institute, Stockholm University, Stockholm, Sweden, ⁶Department of Psychology, University of Pennsylvania, Philadelphia, PA, USA
- P311 147 Human Body Odor Identification is Affected by the Valence of the Contextual Information at Encoding and Retrieval**
 Sandra C. Soares^{1,2,3}, Marta Rocha¹, Susana Campos⁴, Laura Alho^{4,5}, Jacqueline Ferreira⁴, Stephanie Macedo⁴, Carlos Silva¹, Valentina Parma^{6,7,8}
¹CINTESIS.UA, Department of Education and Psychology, Aveiro, Portugal, ²William James Research Center, ISPA, Lisbon, Portugal, ³Department of Clinical Neuroscience, Section of Psychology, Karolinska Institute, Stockholm, Sweden, ⁴Department of Education and Psychology, University of Aveiro, Aveiro, Portugal, ⁵Lusófona University, Lisbon, Portugal, ⁶SISSA, Trieste, Italy, ⁷Monell Chemical Senses Center, Philadelphia, PA, USA, ⁸Center for Autism Research, Philadelphia, PA, USA
- P312 148 Nostril-Specific Attentional Gain without Awareness**
 Yuting Ye^{1,2}, Wen Zhou^{1,2}
¹Institute of Psychology, Key Laboratory of Behavioral Science, CAS Center for Excellence in Brain Science and Intelligence Technology, Chinese Academy of Sciences, Beijing, China, ²University of Chinese Academy of Sciences, Beijing, China

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CORTEX

P313 149 **Gray Matter Volume Comparison in Patients with Post-Infectious Olfactory Loss Before and After “Olfactory Training”**

Janine Gellrich², Cedric Manesse¹, Han Pengfei^{1,2}, Amelie Betz¹, Anne Junghans¹, Claudia Raue³, Valentin/A Schriever², Thomas Hummel¹

¹Department of Orthorhinolaryngology TU Dresden, Dresden, Germany,

²Department of Neuropediatrics TU Dresden, Dresden, Germany, ³Department of Neuroradiology TU Dresden, Dresden, Germany

P314 150 **The Lateral Entorhinal Cortex Drives Feedforward Inhibition in the Basolateral Amygdala via Somatostatin Not Parvalbumin Interneurons**

Ethan M. Guthman^{1,2}, Ming Ma³, Diego Restrepo^{1,3}, Molly M. Huntsman^{1,2,4}

¹Neuroscience Graduate Program, University of Colorado Anschutz Medical Campus, Aurora, CO, USA, ²Department of Pharmaceutical Sciences, University of Colorado Anschutz Medical Campus, Aurora, CO, USA, ³Department of Cell and Developmental Biology, University of Colorado Anschutz Medical Campus, Aurora, CO, USA, ⁴Department of Pediatrics, University of Colorado Anschutz Medical Campus, Aurora, CO, USA

 Don Tucker Award Finalist

P315 151 **Odor-Elicited Oscillations in Human Piriform Cortex**

Heidi Jiang¹, Stephan Schuele¹, Joshua Rosenow¹, Josef Parvizi², James Tao³, Shasha Wu³, Jay Gottfried¹

¹Northwestern University, Chicago, IL, USA, ²Stanford University, Palo Alto, CA, USA, ³University of Chicago, Chicago, IL, USA

P316 152 **Spiking Model of Expectation in Taste Processing**

Luca Mazzucato, Giancarlo La Camera, Alfredo Fontanini
Stony Brook University, Stony Brook, NY, USA

P317 153 **Population-Wide Odor Representations in Piriform Cortex are State-Dependent**

Stan L. Pashkovski, Sandeep R. Datta
Harvard Medical School, Boston, MA, USA

P318 154 **Characterization of Gustatory Cortex Callosal Projections**

Stephanie Staszko, Lianyi Lu, John Boughter, Max Fletcher
University of Tennessee Health Science Center, Department of Anatomy & Neurobiology, Memphis, TN, USA

P319 155 **Using Olfactory Habituation/Dishabituation Test as an Evaluation Method for the Developmentally and Genetically Abnormal Mice**

Chih-Yuan Wei, Chien-Fu F Chen
National Defense Medical Center, Taipei City, Taiwan

INFLAMMATION

P320 156 **Bitter Taste Receptor (TAS2R) Expression in Human Sinonasal Mucosa**

Catherine B. Anderson^{1,2}, Jennifer M. Kofonow³, Pratima Agarwal¹, Mason M. Trieu^{1,2}, Eric D. Larson^{1,2}, Sue C. Kinnamon^{1,2}, Vijay R. Ramakrishnan^{1,2}

¹Department of Otolaryngology, University of Colorado School of Medicine, Aurora, CO, USA, ²Rocky Mountain Taste and Smell Center, Aurora, CO, USA, ³Division of Infectious Diseases, University of Colorado School of Medicine, Aurora, CO, USA

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- P321 **Taste Loss in a Mouse Model of Induced Interferon- γ Expression**
 157 Pu Feng, Masafumi Jyotaki, Jinghua Chai, Liquan Huang, Hong Wang
Monell Chemical Senses Center, Philadelphia, PA, USA
- P322 **The Interleukin-6 Receptor IL-6R is Expressed in Taste Bud Derived Cell Lines**
 158 Megan Kepas, Akila Ram, Timothy A. Gilbertson
Utah State University, Logan, UT, USA
- P323 **The Smell of Sickness: How Inflammatory Signals and Metabolic Pathways Influence Body Odor**
 159 Patrick Millet¹, Bruce Kimball^{1,2}, Gary Beauchamp¹
¹Monell Chemical Senses Center, Philadelphia, PA, USA, ²USDA National Wildlife Research Center, Fort Collins, CO, USA
- P324 **Multisensory Detection of Sickness**
 160 Christina Regenbogen^{1,2,3}, John Axelsson^{1,5}, Julie Lasselin^{1,4,5}, Danja Porada¹, Tina Sundelin^{1,5}, Moa Peter¹, Mats Lekander^{1,5}, Johan Lundström^{1,6,7}, Mats J. Olsson¹
¹Karolinska Institutet, Stockholm, Sweden, ²Aachen University, Aachen, Germany, ³JARA - BRAIN Institute, Jülich, Sweden, ⁴Universitätsklinikum, Essen, Germany, ⁵Stress Research Institute, Stockholm, Sweden, ⁶Monell Chemical Senses Center, Philadelphia, PA, USA, ⁷University of Pennsylvania, Philadelphia, PA, USA
- P325 **Innate Immune Response in the Olfactory Epithelium Triggered by Vesicular Stomatitis Virus**
 161 Ashley/D Winters, Huaiyang Chen, Tatz Ishimaru, Qizhi Gong
University of California School of Medicine, Davis, CA, USA

OBESITY

- P326 **Plasma Sucralose Concentrations in Subjects with Obesity and Normal-weight Individuals**
 162 M. Belen Acevedo¹, Allison Sylvestsky^{2,3}, Peter J. Walter², Samuel Klein⁴, Kristina I. Rother², M. Yanina Pepino¹
¹University of Illinois at Urbana- Champaign, Urbana, IL, USA, ²The George Washington University, Washington, DC, USA, ³National Institutes of Health, Bethesda, MD, USA, ⁴Washington University School of Medicine, St. Louis, MO, USA
- PD3 **Obesity is Associated with Altered Gene Expression in Human Tastebuds**
 163 Nicholas Archer¹, Jan Shaw², Maeva Broch¹, Rowan Bunch³, Astrid Poelman¹, William Barendse³, Konsta Duesing²
¹CSIRO Agriculture and Food, Sydney, Australia, ²CSIRO Health and Biosecurity, Sydney, Australia, ³CSIRO Agriculture and Food, Brisbane, Australia
- P327 **Voluntary Exercise Modifies Glomerular Projections in Control- and Fat-Fed Mice**
 164 Brandon M Chelette^{1,2}, Kassandra L Ferguson¹, Daniel Gonzalez¹, Abigail M Thomas¹, Margaret K Vinson¹, Dr. Debra A Fadool^{1,2,3}
¹The Florida State University Department of Biological Science, Tallahassee, FL, USA, ²Program in Neuroscience, Tallahassee, FL, USA, ³Institute of Molecular Biophysics, Tallahassee, FL, USA

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- P328 **Estradiol Mediates Fat Intake**
165 Naima S. Dahir, Timothy A. Gilbertson
Utah State University, Logan, UT, USA
- P329 **Chemosensory Function and Diet Quality from Pre to 6-Months Post-Bariatric Surgery: A Pilot Study**
166 Valerie B Duffy¹, Andrea Stone², Darren Tishler², Pavlos K Papasavas²
¹Allied Health Sciences, University of Connecticut, Storrs, CT, USA, ²Department of Surgery, Hartford Hospital, Hartford, CT, USA
- P330 **Loss of Odor-Induced c-fos Expression of Periglomerular Activity Following Maintenance of Mice on Modified Fatty Diets**
167 Erminia Fardone^{1,2}, Arda B. Celan¹, Nicholas A. Schrieter¹, Melissa Cooper¹, Debra A. Fadool^{1,2,3}
¹Department of Biological Science, Tallahassee, FL, USA, ²Program in Neuroscience, Tallahassee, FL, USA, ³Institute of Molecular Biophysics, Tallahassee, FL, USA
- P331 **Taste Responses in the Nucleus of the Solitary Tract in the Awake Diet-Induced Obese and Lean Rats**
168 Michael Weiss¹, Krzysztof Czaja², Andras Hajnal³, Patricia Di Lorenzo¹
¹Dept. of Psychology, Binghamton Univ., Binghamton, NY, USA, ²Dept. of Veterinary Biosciences & Diagnostic Imaging, Univ. of Georgia Athens, Athens, GA, USA, ³Dept. of Neural and Behavioral Sciences, The Pennsylvania State University, College of Medicine, Hershey, PA, USA

OLFACTORY BULB

- P332 **Perception and Encoding of Temporally Patterned Odor Stimuli in the Mouse Olfactory Bulb**
169 Tobias Ackels¹, Andrew Erskine^{1,2}, Debanjan Dasgupta¹, Izumi Fukunaga¹, Andreas T. Schaefer^{1,2}
¹Neurophysiology of Behaviour Lab, The Francis Crick Institute, London, United Kingdom, ²Dept. of Neuroscience, Physiology and Pharmacology, University College London, London, United Kingdom
- P333 **Arc-Expressing Accessory Olfactory Bulb Internal Granule Cells Increase their Excitability through Intrinsic Mechanisms Following Intermale Aggression**
170 Hillary L. Cansler¹, Marina A. Maksimova¹, Julian P. Meeks¹
¹University of Texas Southwestern Medical Center, Dallas, TX, USA  Don Tucker Award Finalist
- P334 **Anterior Olfactory Nucleus and Piriform Cortex Feedback Differentially Modulate Olfactory Bulb Output Neurons**
171 Honggoo Chae, Gonzalo H. Otazu, Dinu F. Albeanu
Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, USA
- P335 **Sensory Representations in the Accessory Olfactory Bulb During Social Interactions**
172 Yuan Gao, Ian Davison
Dept. of Biology, Boston University, Boston, MA, USA
- P336 **Development of Olfactory Bulb Cell-Specific Cilia Knockout Mouse Models**
173 Jeremy C McIntyre^{1,2}, Natalie D Green^{1,2}, Alexander Parker^{1,2}
¹University of Florida, Department of Neuroscience, Gainesville, FL, USA, ²University of Florida Center for Smell and Taste, Gainesville, FL, USA

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P337 Olfactory Adaptation is Dependent on Route of Delivery

174 Alex/M Pierce, Christopher/T Simons
Ohio State University, Columbus, OH, USA

P338 The Olfactory Bulb Contributes to the Concentration Invariance of Odor Perception: The Input-Output Transformation

175 Douglas A Storace¹, Lawrence B Cohen^{1,2}
¹*Yale University, New Haven, CT, South Korea*, ²*Korea Institute of Science and Technology, Seoul, Korea*

P339 Infraslow Oscillations in the Mouse Accessory Olfactory Bulb

176 Chryssanthi Tsitoura, Julia Mohrhardt, Kira Gerhold, Monika Gorin, Sebastian Malinowski, Katja Watznauer, Marc Spehr
RWTH Aachen University, Institute of Biology II, Dept. of Chemosensation, Aachen, Germany

 **Don Tucker Award Finalist**

SOCIAL BEHAVIOR

P340 Effects of Beer and Marijuana Scent Administration on Pain Threshold and Tolerance: For Typical "Users" the Scent May be Enough for Pain Modulation

177 Andrea Bova, Andrew Groves, Michael Seals, Bryan Raudenbush, Roger Moses
Wheeling Jesuit University, Wheeling, WV, USA

P341 You Smell So Good! Biology Overrides Familiarity in Women, but Not in Men

178 Ilona Croy, Diana Pietrowski, Jana Kroemer, Agnieszka Sorokowska, Thomas Hummel
Technische Universität Dresden, Dresden, Germany

P342 Effects of Video Game Player Avatar Size on Body Image Satisfaction/ Dissatisfaction and Subsequent Food/Nutritional Choices in a Cafeteria Setting

179 Patrick Dwyer, Bryan Raudenbush
Wheeling Jesuit University, Wheeling, WV, USA

P343 Effects of Jasmine Scent Administration on Increasing Community Service Participation Attitudes

180 Megan Randolph, Cydney Comfort, Sloane Glover, Albert Schrimp, Bryan Raudenbush, Sabrina Soriano, Erin Unterbrink
Wheeling Jesuit University, Wheeling, WV, USA

P344 Effects of Peppermint Flavor and Scent Administration on Augmenting Rugby Play Performance: The Use of a Peppermint Flavored Mouthguard During Play

181 Bryan Raudenbush, Juan Pablo Troconis Bello
Wheeling Jesuit University, Wheeling, WV, USA

 **ASChEM Undergrad Award Finalist**

P345 Effects of L-Tryptophan Consumption on Racial Attitudes and Acceptance

182 Juan Pablo Troconis Bello, Nicholas Cochran, Cody Leonard, Jessica Pontis, Megan Randolph, Bryan Raudenbush
Wheeling Jesuit University, Wheeling, WV, USA

 **ASChEM Undergrad Award Finalist**

P346 Subliminal Chemosensory Cues Modulate Emotional Perception of Biological Motion in a Gender-Specific Manner

183 Yuting Ye^{1,2}, Monique Smeets^{3,4}, Wen Zhou^{1,2}
¹*Institute of Psychology, Key Laboratory of Behavioral Science, CAS Center for Excellence in Brain Science and Intelligence Technology, Chinese Academy of Sciences, Beijing, China*, ²*University of Chinese Academy of Sciences, Beijing, China*, ³*Unilever R&D, Vlaardingen, Netherlands*, ⁴*Department of Psychology, Utrecht University, Utrecht, Netherlands*

FRIDAY

PROGRAM IN DETAIL

FRIDAY, CONTINUED

COFFEE BREAK	
9:00 am - 10:30 am	Estero Foyer

SYMPOSIUM	
10:30 am - 12:10 pm	Calusa F-H
Chemosensory Thalamus	

Chairs: Emmanuelle Courtiol and Alfredo Fontanini

10:30 Introduction

184 Emmanuelle Courtiol^{1,2}, Alfredo Fontanini³

¹Nathan Kline Institute for Psychiatric Research, Orangeburg, NY, USA, ²New York University Langone Medical Center, New York, NY, USA, ³Stony Brook University, Stony Brook, NY, USA

10:40 General Functions of the Thalamus: Examples from the Visual Thalamus

185 Jon H. Kaas

Department of Psychology, Vanderbilt University, Nashville, TN, USA

11:05 Role of Limbic and Sensory Thalamic Nuclei in Taste Processing

186 Roberto Vincis, Alfredo Fontanini

SUNY at Stony Brook, Stony Brook, NY, USA

11:20 Connectivity Between Insular Cortex and Thalamus in Humans and Taste Intensity

187 Tazuko K. Goto

Tokyo Dental College, Tokyo, Japan

11:45 Thalamic Contribution to Odor-Guided Behavior in Rats

188 Emmanuelle Courtiol^{1,2}, Donald A. Wilson^{1,2}

¹Nathan Kline Institute for Psychiatric Research, Orangeburg, NY, USA, ²Department of Child and Adolescent Psychiatry New York University Langone Medical Center, New York, NY, USA

FRIDAY



PROGRAM IN DETAIL

FRIDAY, CONTINUED

SYMPOSIUM	
10:30 am - 12:10 pm	Calusa A-C
The Role of Multimodal Sensory Integration in Shaping Behavior Across Diverse Animal Taxa	

Chair: Neil Vickers

- 10:30 **Introduction**
 189 Neil J. Vickers
University of Utah, Salt Lake City, UT, USA
- 10:40 **A Microcircuit for Controlling Sensory Valence in *Caenorhabditis Elegans***
 190 Manon L. Guillermin, Mayra A. Carrillo, Elissa A. Hallem
University of California, Los Angeles, Los Angeles, CA, USA
- 11:00 **Evolution of Pheromone Processing Pathways in *Drosophila***
 191 Laura Seeholzer, Max Seppo, Vanessa Ruta
The Rockefeller University, New York, NY, USA
- 11:20 **Multisensory Integration in the Fruit Fly: Olfactory Modulation of Motion Vision**
 192 Sara M. Wasserman
Wellesley College, Wellesley, MA, USA
- 11:45 **Internal vs External Chemosensation: The Specific Interaction of Taste and Retronasal Olfaction**
 193 Donald Katz¹, Meredith Blankenship¹, Joost Maier²
¹Brandeis University, Waltham, MA, USA, ²Wake Forest University, Winston-Salem, NC, USA

FRIDAY

MEETING	
12:50 pm - 1:50 pm	Calusa A-D
ACChemS Business Meeting	

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

SYMPOSIUM	
2:00 pm - 4:00 pm	Calusa A-D
Public Health & Industry Symposium	

Chairs: Chris Simons and Paul Breslin

- 2:00 **Creation of an Interdisciplinary Sugar Reduction Working Group**
 194 Paul Breslin^{1,2}, Nancy Rawson², Christopher Simons³
¹Rutgers University, New Brunswick, NJ, USA, ²Monell Chemical Senses Center, Philadelphia, PA, USA, ³Ohio State University, Columbus, OH, USA

PROGRAM IN DETAIL

FRIDAY, CONTINUED

AWARD LECTURES	
7:00 pm - 9:00 pm	Calusa A-D
Polak Award Presentations	

Chair: John Boughter

- 7:00 **Odor Detection and Discrimination by Newborn Olfactory Sensory Neurons**
195 **in Vivo**
Claire E Cheetham, Ryan Muggleton, Sajishnu Savva, Beichen Liu
Dept. of Biological Sciences, Carnegie Mellon University, Pittsburgh, PA, USA
- 7:20 **Effect of Induced Airflow on Odor Plume Transportation in a Fruit Fly in**
196 **Forward Flight**
Chengyu Li¹, Haibo Dong², Kai Zhao¹
¹*The Ohio State University, Columbus, OH, USA*, ²*University of Virginia, Charlottesville, VA, USA*
- 7:40 **Somatosensory Characteristics of Receptive Fields of Rat Chorda Tympani**
197 **Nerve/Geniculate Ganglion Soma**
Yusuke Yokota, Archana Kumari, Charlotte M. Mistretta, Robert M. Bradley
University of Michigan, Ann Arbor, MI, USA
- 8:00 **A Novel Boar Pheromone Mixture Induces Estrus Behaviors and Improves**
198 **Reproductive Success**
Sankarganesh Devaraj¹, Garrett W. Thompson², John J. McGlone¹
¹*Laboratory of Animal Behavior, Physiology and Welfare, Texas Tech University, Lubbock, TX, USA*, ²*Research and Development, Animal Biotech, Dallas, TX, USA*
- 8:20 **Type II Taste Bud M Cells May Function in Oral Immune Surveillance**
199 Yumei Qin^{1,2}, Sunil Sukumaran¹, Kevin Redding¹, Robert Margolskee¹
¹*Monell Chemical Senses Center, Philadelphia, PA, USA*, ²*Zhejiang Gongshang University, School of Food Science and Biotechnology, Hangzhou, China*
- 8:40 **Inhibition of Sweet Chemosensory Receptors Alters Glycemic and Insulin**
200 **Responses During Glucose Ingestion in Healthy Adults: A Randomized Crossover Interventional Study**
Elnaz Karimian Azari¹, Kathleen R. Smith¹, Fanchao Yi², Timothy F. Osborne¹, Roberto Bizzotto³, Andrea Mari³, Richard E. Pratley^{1,2}, George A. Kyriazis^{1,2}
¹*Center for Metabolic Origins of Disease, Sanford Burnham Prebys Medical Discovery Institute, Orlando, FL, USA*, ²*Translational Research Institute for Metabolism and Diabetes, Florida Hospital, Orlando, FL, USA*, ³*Institute of Neuroscience, National Research Council, Padova, Italy*

FRIDAY

FRIDAY, CONTINUED

POSTER SESSION IV

9:00 pm - 11:00 pm

Estero Ballroom

AGING

- P401 **Diabetes and Olfaction: Evidence from the National Health and Nutrition Examination Survey, 2011-2014**
 201 Kathleen Bainbridge¹, Donald Leopold², Danita Byrd-Clark³, Chuan-Ming Li¹, Catherine Cowie⁴
¹National Institute on Deafness and Other Communication Disorders, Bethesda, MD, USA, ²Department of Surgery, University of Vermont Medical Center, Burlington, VT, USA, ³Social & Scientific Systems, Silver Spring, MD, USA, ⁴National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, MD, USA
- P402 **Olfaction, Health and Cognitive Decline**
 202 Pamela Dalton¹, Cristina Jaen¹, Carolyn Novaleski¹, R.Scott Mackin^{2,3}, Michael Weiner^{2,3}
¹Monell Chemical Senses Center, Philadelphia, PA, USA, ²University of California-San Francisco, San Francisco, CA, USA, ³San Francisco Veterans Affairs Medical Center, San Francisco, CA, USA
- P403 **Reconstitution of the Odorant Receptor Map in the Olfactory Bulb of Aged Mice**
 203 Ashley Iannantone, Anisa Hussain, Shelly Shibu, Paulina Lis, Jessica Brann
 Department of Biology, Loyola University Chicago, Chicago, IL, USA
- P404 **In Vivo Visualization of Odor-Evoked Olfactory Sensory Neuron Neurotransmitter Release in Aging Mice**
 204 Marley D. Kass, Lindsey A. Czarnecki, John P. McGann
 Rutgers, The State University of New Jersey, Piscataway, NJ, USA
- P405 **Olfaction and Sexuality in Older Adults in the USA**
 205 Sunny Y Kung¹, Kristen E. Wroblewski², Martha K. McClintock^{3,4}, David W. Kern⁵, Jayant M. Pinto⁶
¹Pritzker School of Medicine, The University of Chicago, Chicago, IL, USA, ²Department of Public Health Sciences, The University of Chicago, Chicago, IL, USA, ³Center on Demography and Aging, The University of Chicago, Chicago, IL, USA, ⁴Department of Comparative Human Development, The University of Chicago, Chicago, IL, USA, ⁵Department of Psychology, Northeastern Illinois University, Chicago, IL, USA, ⁶Section of Otolaryngology, Department of Surgery, The University of Chicago, Chicago, IL, USA

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- P406** **A Large-Scale Study of Dysosmia in the French Population: Prevalence as a Function of Age and Effects on Food Behavior.**
 206 C Manesse¹, M Sabri², C Ferdenzi¹, M Bessy¹, A Fournel¹, F Faure³, D Bellil⁴, S Jomain⁴, BN Landis⁵, M Hugentobler⁵, F Rinck⁶, E Petit⁷, A Giboreau⁷, C Rouby¹, M Bensafi¹
¹CNRS UMR5292, INSERM U1028, Lyon Neuroscience Research Center, Lyon, France, ²Département Informatique, Université des Sciences, Usto, Oran, Algeria, ³Hospices Civils de Lyon, Lyon, France, ⁴Hôpital Nord-Ouest Villefranche, Villefranche, France, ⁵Hôpitaux Universitaires de Genève, Geneva, Switzerland, ⁶University of Grenoble, Lidilem Laboratory, Grenoble, France, ⁷Research Center of Institut Paul Bocuse, Ecully, France
- P407** **Investigating Eole of Noradrenaline in Olfactory Discrimination During Aging**
 207 Claire Terrier, Xuming Yin, Maëllie Midroit, Jérémy Forest, Joëlle Sacquet, Marc Thevenet, Nathalie Mandaïron, Anne Didier, Marion Richard
 Université Claude Bernard Lyon1, Lyon, France

AIRWAY

- P408** **Computational and Trigeminal Examinations of Empty Nose Syndrome**
 208 Chengyu Li, Alexander A. Farag, James Leach, Bhakthi Deshpande, Adam Jacobowitz, Kanghyun Kim, Bradley A. Otto, Kai Zhao
 The Ohio State University, Columbus, OH, USA
- P409** **Distinguishing Perceived Sensory Irritation versus Tissue Irritation in the Aerodigestive Tract during Propylene Glycol Exposure**
 209 Carolyn Novaleski, Brianna Soreth, Christopher Mauté, Pamela Dalton
 Monell Chemical Senses Center, Philadelphia, PA, USA
- P410** **The Role of Taste and Olfaction in the Sweetness of E-Cigarette Flavors**
 210 Kathryn Rosbrook¹, Barry Green^{1,2}
¹John B. Pierce Laboratory, New Haven, CT, USA, ²Yale School of Medicine, New Haven, CT, USA
- P411** **Intermittent Stimulation of the Trigeminal Nerve Increases Trigeminal Sensitivity**
 211 Timo Schultheiss¹, Anna Oleszkiewicz^{1,2}, Valentin Schriever¹, Antje Hähner¹, Thomas Hummel¹
¹Smell & Taste Clinic, Department of Otorhinolaryngology, TU Dresden, Dresden, Germany, ²University of Wrocław, Wrocław, Poland
- P412** **Evaluation of Respiratory and Ocular Irritation from Propylene Glycol in Healthy Humans**
 212 Brianna Soreth, Christopher Maute, Carolyn Novaleski, Cristina Jaen, Pamela Dalton
 Monell Chemical Senses Center, Philadelphia, PA, USA
- P413** **The Effect of Added Flavorants on the Taste and Pleasantness of Mixtures of Glycerol and Propylene Glycol**
 213 Paul M Wise¹, Pradnya Rao¹, Husile Nanding¹, Andrew A Strasser²
¹Monell Chemical Senses Center, Philadelphia, PA, USA, ²University of Pennsylvania, Department of Psychiatry, Perelman School of Medicine, Philadelphia, PA, USA

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P414 214 Nasal Airflow Vortex Resulted in Better Olfactory Sensitivity Among Healthy Controls

Kai Zhao¹, Chengyu Li¹, Kanghyun Kim¹, Jianbo Jiang², Beverly J. Cowart^{2,3}, Edmund A. Pribitkin^{2,3}, Pamela Dalton²

¹The Ohio State University, Department of Otolaryngology, Columbus, OH, USA, ²Monell Chemical Senses Center, Philadelphia, PA, USA, ³Thomas Jefferson University, Department of Otolaryngology, Philadelphia, PA, USA

DEVELOPMENT

P415 215 The GDNF/Ret Signaling Pathway is Critical for Chemosensory Cell Fate Determination of Geniculate Ganglion Neurons

Christopher Donnelly, Amol Shah, Alan Halim, Charlotte Mistretta, Robert Bradley, Brian Pierchala

Biologic and Materials Sciences, University of Michigan, Ann Arbor, MI, USA

P416 216 Ephrin-A/EphA Signaling During Gustatory and Somatosensory Innervation of Fungiform Papillae

Jason S Hwang¹, Kajol Doshi¹, Randall W Treffy², Marissa Pilon¹, M William Rochlin¹

¹Loyola U. Chicago, Chicago, IL, USA, ²University of Illinois Chicago, Chicago, IL, USA

P417 217 SOX10-Cre Labeled Neural Crest Derived Cells are Absent in Taste Buds of Zebrafish

Brett Marshall¹, Rebecca Ball², James Lauderdale², Robert Kelsh³, Hongxiang Liu¹

¹Department of Animal and Dairy Science, University of Georgia, Athens, GA, USA, ²Department of Cellular Biology, University of Georgia, Athens, GA, USA, ³Department of Biology and Biochemistry, University of Bath, Bath, United Kingdom

P418 218 Learning to Like Vegetables During Breastfeeding: A Randomized Clinical Trial of Lactating Mothers and Infants

Julie A. Mennella, Loran M. Daniels, Ashley R. Reiter

Monell Chemical Senses Center, Philadelphia, PA, USA

P419 219 Differentiation of Sour Taste Cells

Makoto Ohmoto¹, François Guillemot², Ichiro Matsumoto¹

¹Monell Chemical Senses Center, Philadelphia, PA, USA, ²MRC-National Institute of Medical Research, Mill Hill, United Kingdom

P420 220 Microglia Response at Various Time Points Following Chorda Tympani Transection in Neonatal Rats

Andrew J. Riquier, Suzanne I. Sollars

University of Nebraska at Omaha, Omaha, NE, USA

LEARNING AND MEMORY

P421 221 Olfactory Preferences are Just a Matter of Taste: Retronasal Learning Requires Taste Cortex

Meredith L Blankenship², Maria Grigorova¹, Donald B Katz^{1,2,3}, Joost X Maier⁴

¹Psychology Department, Brandeis University, Waltham, MA, USA, ²Biology Department, Brandeis University, Waltham, MA, USA, ³Volen Center for Complex Systems, Brandeis University, Waltham, MA, USA, ⁴Department of Neurobiology & Anatomy, Wake Forest School of Medicine, Winston-Salem, NC, USA

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- P422 **Innocuous Taste Experience Enhances Aversion Learning and Alters Neural Activation in the Gustatory Cortex**
222 Veronica Flores, David Levitan, Tamar Parmet, Donald Katz
Brandeis University, MA, MA,
- P423 **Taste Coding in the Hippocampus**
223 Linnea E. Herzog, Elon R. Mathieson, Shantanu P. Jadhav, Donald B. Katz
Brandeis University, Waltham, MA, USA
- P424 **Dopaminergic Circuits Modulate Olfactory Coding in Memory-Encoding Brain Structures via Cyclic-AMP-Dependent Plasticity**
224 Thierry Louis, Tamara Boto, Seth M. Tomchik
The Scripps Research Institute, Jupiter, FL, USA
- P425 **Sustained Mouth-Watering in Response to Visual Sour Candy Cue**
225 Cordelia Running^{1,2}
¹*Purdue University Nutrition Science Department, West Lafayette, IN, USA,* ²*Purdue University Food Science Department, West Lafayette, IN, USA*
- P426 **Influence of Peppermint Oil Ambient Odor on Task Performance and Saliva Cortisol in School-Children**
226 Vera Voznessenskaya¹, Alexander Minor¹, Tatiana Laktionova¹, Maria Klyuchnikova¹, Marina Kochevalina^{2,1}, Ilya Kvasha¹, Elena Rodionova^{2,1}
¹*A.N.Severtsov Institute of Ecology & Evolution, Moscow, Russia,* ²*Kharkevich Institute for Information Transmission, Moscow, Russia*

PERIPHERAL NERVOUS SYSTEM

- P427 **Psychophysically Assessed Taste Sensitivity to a Mixture of Monosodium Glutamate and Inosine-5'-monophosphate in T1R1+T1R3 Double Knockout, C57BL/6J, and 129X1/SvJ Mice**
227 Ginger D. Blonde¹, Susan P. Travers², Alan C. Spector¹
¹*Dept. of Psychology and Program in Neuroscience, Florida State University, Tallahassee, FL, USA,* ²*Division of Biosciences, College of Dentistry, Ohio State University, Columbus, OH, USA*
- P428 **Correlation of Electrical Activity and Calcium Signals in Mouse Vomeronasal Sensory Neurons**
228 Rudolf Degen, Marc Spehr
RWTH Aachen University, Institute for Biology II, Department of Chemosensation, Aachen, Germany
- P429 **Transcription Factors to Define Taste Versus Somatosensory Neurons of the Geniculate Ganglion**
229 Gennady Dvoryanchikov¹, Damian Hernandez¹, Chengsan Sun³, David L. Hill³, Nirupa Chaudhari^{1,2}
¹*University of Miami Miller School of Medicine, Miami, FL, USA,* ²*Program in Neurosciences, University of Miami Miller School of Medicine, Miami, FL, USA,* ³*University of Virginia, Charlottesville, VA, USA*
- P430 **Synergistic Effects of ATP and Serotonin on Gustatory Afferents**
230 Eric D Larson^{1,2}, Sue C Kinnamon^{1,2}
¹*Department of Otolaryngology, University of Colorado School of Medicine, Aurora, CO, USA,* ²*Rocky Mountain Taste and Smell Center, Aurora, CO, USA*

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- P431 **Role of BDNF-TrkB Signaling in Taste Function**
231 Jennifer Rios-Pilier, A. Victoria Clements, Robin F Krimm
University of Louisville, Louisville, KY, USA
- P432 **Release of ATP from Type II Taste Cells is not Necessary for the Transmission of Sour and Salty Taste Information to Afferent Fibers**
232 Aurelie Vandenbeuch, Catherine B Anderson, Kyndal A Davis, Sue C Kinnamon
Department of Otolaryngology, University of Colorado, School of Medicine, Aurora, CO, USA

PHEROMONES

- P433 **Fecal Bile Acids are Potent Activators of the Accessory Olfactory System**
233 Wayne Doyle¹, Jordan Dinser², Hillary Cansler¹, Xingjian Zhang², Daniel Dinh¹,
Natasha Browder¹, Ian Riddington², Julian Meeks¹
¹University of Texas Southwestern, Dallas, TX, USA, ²University of Texas at Austin, Austin, TX, USA

 **Don Tucker
Award Finalist**

- P434 **Wine Discrimination in Early-Blind Individuals**
234 Simona Manescu¹, Jordi Ballester², Hervé Abdi³, Dominique Valentin², Franco
Lepore¹, Johannes Frasnelli^{1,4,5}
¹Université de Montréal, Montreal, QC, Canada, ²Université de Bourgogne, Dijon, France, ³University of Texas at Dallas, Richardson, TX, USA, ⁴Université de-Trois-Rivieres, Montreal, QC, Canada, ⁵CIUSSS Nord-de-l'Ile, Montreal, QC, Canada

 **Don Tucker
Award Finalist**

- P435 **Juvenile Mouse Pheromone ESP22 Suppresses Sexual Behaviors in Virgin Female Mice through a Specific Vomeronasal Receptor**
235 Takuya Osakada^{1,2}, Hiromi Mori^{1,2}, Kentaro Ishii^{1,2}, Yoshihiro Yoshihara^{2,3},
Kazunari Miyamichi^{1,2}, Kazushige Touhara^{1,2}
¹Department of Applied Biological Chemistry, Graduate School of Agricultural and Life Sciences, The University of Tokyo, Tokyo, Japan, ²ERATO Touhara Chemosensory Signal Project, JST, Tokyo, Japan, ³RIKEN Brain Science Institute, Saitama, Japan

- P436 **Functional Properties of Inhibitory Olfactory Projection Neurons in the Moth Antennal Lobe**
236 Neil J. Vickers¹, Christine Fogarty-Celestino¹, Seong-Gyu Lee¹, Christoph Kleineidam², Jeffrey Stagg¹
¹University of Utah, Salt Lake City, UT, USA, ²University of Konstanz, Konstanz, Germany

- P437 **Chemosensory Tuning Properties of Accessory Olfactory Bulb External Granule Cells**
237 Xingjian Zhang, Marina Maksimova, Julian Meeks
UT Southwestern Medical Center, Dallas, TX, USA

FRIDAY

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STEM CELLS

- P438 **Regulation of Wnt/ β -catenin Signaling Following Head And Neck Irradiation**
 238 **In Mouse Circumvallate Papilla**
 Dany Gaillard¹, Sarah E Millar², Linda A Barlow¹
¹Department of Cell & Developmental Biology, School of Medicine, and the Rocky Mountain Taste & Smell Center, University of Colorado Anschutz Medical Campus, Aurora, CO, USA, ²Departments of Dermatology and Cell & Developmental Biology, University of Pennsylvania School of Medicine, Philadelphia, PA, USA
- P439 **Sucrose Detection Threshold is Disrupted after Radiation Treatment**
 239 Benjamin C. Jewkes¹, Linda A. Barlow², Eugene R. Delay¹
¹University of Vermont, Burlington, VT, USA, ²University of Colorado, Anschutz Medical Campus, Aurora, CO, USA
- P440 **Co-Localization of Basal and Proliferative Cells in the Olfactory Epithelium**
 240 **After Cyclophosphamide Injury**
 Kyle Joseph, Nora Awadallah, Eugene Delay, Rona Delay
 University of Vermont, Burlington, VT, USA
- P441 **The Impact of Chemical Exposure on Main Olfactory Epithelium and Bulb**
 241 **Structure in Mice Lacking TRPM5-expressing Microvillous Cells**
 Kayla S. Lemons, Weihong Lin
 University of Maryland Baltimore County, Baltimore, MD, USA
- P442 **Notch-independent RBPJ Function is Required for Maturation of Olfactory**
 242 **Sensory Neurons But Not After Injury**
 Brian Lin, Daniel B Herrick, James E Schwob
 Tufts University, Sackler School, Department of Developmental, Molecular, Chemical Biology, Boston, MA, USA
- P443 **Transcriptome Analyses of Taste Organoids Reveal Multiple Pathways Involved**
 243 **in Taste Cell Generation**
 Wenwen Ren¹, Eitaro Aihara², Weiwei Lei¹, Nishi Gheewala¹, Hironobu Uchiyama³, Robert Margolskee¹, Ken Iwatsuki³, Peihua Jiang¹
¹Monell Chemical Senses Center, Philadelphia, PA, USA, ²University of Cincinnati, Cincinnati, OH, USA, ³Tokyo University of Agriculture, Tokyo, Japan
- P444 **Effects of Cyclophosphamide and Amifostine on the Taste Cell Replacement**
 244 **Cycle**
 Sarah H. Socia, Jessica L. Girardin, John H. King, Eugene R. Delay
 University of Vermont, Burlington, VT, USA
- P445 **A Potential Mechanism Involved in the Sculpting of Gustatory Circuits in the**
 245 **Developing Mouse NST – The Classical Complement Cascade**
 Shuqiu Zheng, Chengsan Sun, David Hill
 University of Virginia, Charlottesville, VA, USA

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PROGRAM IN DETAIL

SATURDAY, APRIL 29, 2017

CONTINENTAL BREAKFAST

7:30 am - 9:00 am

Estero Foyer



SATURDAY

SATURDAY, CONTINUED

POSTER SESSION V

8:00 am - 10:30 am

Estero Ballroom

CORTEX

- P501 246 Representational Similarity Analysis of Visual-Olfactory Reward Cues in the Olfactory Cortical Hierarchy**
 Sarah K. Baisley¹, Thomas C. Arnold¹, Jaryd Hiser², Lucas R. Novak¹, Takuya Sato³, Wen Li¹
¹Department of Psychology, Florida State University, Tallahassee, FL, USA,
²Department of Psychology, University of Wisconsin-Madison, Madison, WI, USA,
³Kikkoman Singapore R&D Laboratory PTE LTD, Singapore, Singapore
- P502 247 Experience Dependent Amygdalo-Cortical Plasticity in L2/3 of Rat Gustatory Cortex.**
 Melissa S. Haley¹, Alfredo Fontanini^{1,2}, Arianna Maffei^{1,2}
¹Dept. of Neurobiology and Behavior, Stony Brook University, Stony Brook, NY, USA, ²Program in Neuroscience, Stony Brook University, Stony Brook, NY, USA
- P503 248 Distribution of Neurons in the Gustatory Cortex Activated by Intra-Oral Infusion of Different Concentrations of NaCl and Sucrose in Conscious Rats**
 Michael S. King, Glynn E. Baron, Kelsey L. McCurdy, Whitney M. Meyers
 Stetson University, DeLand, FL, USA
- P504 249 Inhibitory Circuitry Underlying Context-Dependent Rostrocaudal Asymmetry in Cortical Neural Activity**
 Anne-Marie Oswald, Adam Large, Paul Schick
 Dept. Neuroscience, University of Pittsburgh, Pittsburgh, PA, USA
- P505 250 Transient Optical Inactivation of Piriform Cortex Inputs to the Olfactory Bulb Affect Perceptual Behavioral Strategies**
 Shane T. Peace¹, Leslie M. Kay^{1,2}
¹Institute for Mind and Biology, University of Chicago, Chicago, IL, USA,
²Department of Psychology, University of Chicago, Chicago, IL, USA
- P506 251 Feedback Projections from the Anterior Olfactory Nucleus Modulate Olfactory Bulb Output**
 Lutz Wallhorn, Renata Medinaceli, Markus Rothermel
 Department of Chemosensation, Institute for Biology II, RWTH Aachen University, Aachen, Germany
- P507 252 The Involvement of Primary Olfactory Cortex in Early-Stage Parkinson's Disease**
 Jianli Wang¹, Thyagarajan Subramanian^{2,3}, Qing Yang^{1,4}
¹Department of Radiology, Pennsylvania State University College of Medicine, Hershey, PA, USA, ²Department of Neurology, Pennsylvania State University College of Medicine, Hershey, PA, USA, ³Department of Neural & Behavioral Sciences, Pennsylvania State University College of Medicine, Hershey, PA, USA, ⁴Department of Neurosurgery, Pennsylvania State University College of Medicine, Hershey, PA, USA

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DISCRIMINATION

- P508 **Pre-Exposure to Water Can Alter the Taste of NaCl at the Tongue Tip**
 253 Kendra Andrew¹, Barry Green^{1,2}
¹The John B. Pierce Laboratory, New Haven, CT, USA, ²Yale School of Medicine, New Haven, CT, USA
- P509 **Change of Olfactory Function at the Level of the Olfactory Epithelium Before and After Combining an Odorant with an Electrical Stimulus**
 254 Annachiara Cavazzana^{1,2}, Sophia Poletti¹, Cagdas Guducu³, Maria Larsson², Thomas Hummel¹
¹University of Dresden Medical School, Dresden, Germany, ²Stockholm University, Stockholm, Sweden, ³Dokuz Eylul University, Izmir, Turkey
- PD4 **Predicting Suprathreshold Odor Intensity from Molecular Structure**
 255 Yusuke Ihara^{1,2}, Lindsey L Snyder¹, Jonathan Magill¹, Joel D Mainland^{1,3}
¹Monell Chemical Senses Center, Philadelphia, PA, USA, ²Institute for Innovation, Ajinomoto Co., Inc., Kawasaki, Japan, ³University of Pennsylvania, Philadelphia, PA, USA
- P510 **Rinsing Saliva from the Tongue Tip Increases Perception of Sourness**
 256 Danielle J Nachtigal¹, Barry Green^{1,2}
¹The John B. Pierce Laboratory, New Haven, CT, USA, ²Yale School of Medicine, New Haven, CT, USA
- P511 **Differences in Central and Peripheral Electrophysiological Response to Psychophysically Indistinguishable Odor Enantiomers**
 257 Sophia C. Poletti¹, Annachiara Cavazzana^{1,2}, Cagdas Guducu^{1,3}, Maria Larsson², Thomas Hummel¹
¹University of Dresden Medical School, Dresden, Germany, ²Stockholm University, Department of Psychology, Stockholm, Sweden, ³Dokuz Eylul University, Izmir, Turkey
- P512 **Investigation of Target Substrates for Glucose Oligomer Sensing**
 258 Alexa J. Pullicin, Mike H. Penner, Juyun Lim
Oregon State University, Corvallis, OR, USA
- P513 **Masking of Bitterness and Sweetness by Tea Flavor**
 259 Yaohua Xie^{1,2}, Kelly Morrow¹, Maria Veldhuizen^{1,3}, Lawrence Marks^{1,2,4}
¹John B. Pierce Laboratory, New Haven, CT, USA, ²Department of Epidemiology (Environmental Health Sciences), Yale School of Public Health, New Haven, CT, USA, ³Department of Psychiatry, Yale University School of Medicine, New Haven, CT, USA, ⁴Department of Psychology, Yale University, New Haven, CT, USA
- P514 **Sound Induced Olfactory Predictive Coding in Human Piriform Cortex**
 260 Guangyu Zhou, Nikita Arora, Heidi Jiang, Stephan Schuele, Jay A. Gottfried, Christina Zelano
Department of Neurology, Northwestern University, Feinberg School of Medicine, Chicago, IL, USA

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GENOME

- P515 **RNA-Seq Analysis for Taste Sensory Organs in Chickens: An Ideal System for Multidisciplinary Study**
 261 Xiaogang Cui, Brett Marshall, Ning Shi, Shiyu Chen, Romdane Rekaya, Hongxiang Liu
University of Georgia, Athens, GA, USA
- P516 **The Receptor Logic Behind Varying Odorant Concentrations**
 262 Xiaoyang Serene Hu¹, Kentaro Ikegami^{1,3}, Marcelo Zapata¹, Natasha Vaidya^{1,4}, Hiroaki Matsunami^{1,2}
¹*Department of Molecular Genetics and Microbiology, Duke University Medical Center, Durham, NC, USA*, ²*Department of Neurobiology, Duke Institute for Brain Sciences, Durham, NC, USA*, ³*Department of Biotechnology and Life Science, Tokyo University of Agriculture and Technology, Tokyo, Japan*, ⁴*North Carolina School of Science and Mathematics, Durham, NC, USA*
- P517 **Replication and Discovery of Genetic Variants Influencing Human Bitter Taste Perception**
 263 Liang-Dar Hwang^{1,2}, Puya Gharahkhani¹, Gu Zhu¹, Scott D. Gordon¹, Paul A. S. Breslin^{3,4}, Nicholas G. Martin¹, Danielle R. Reed³, Margaret J. Wright^{5,6}
¹*QIMR Berghofer Medical Research Institute, Brisbane, Australia*, ²*School of Medicine, University of Queensland, Brisbane, Australia*, ³*Monell Chemical Senses Center, Philadelphia, PA, USA*, ⁴*Dept. of Nutritional Sciences, School of Environmental and Biological Sciences, Rutgers University, New Brunswick, NJ, USA*, ⁵*Queensland Brain Institute, University of Queensland, Brisbane, Australia*, ⁶*Centre for Advanced Imaging, University of Queensland, Brisbane, Australia*
- P518 **Cell-Type Specific Gene Profiling from the BLA During Long Term Taste Aversion Memory Formation**
 264 David Levitan, Donald. B Katz, Sacha. B Nelson
Brandeis University, Waltham, MA, USA
- P519 **Worldwide Variation and Linkage Structure in the Overlapping Orosensation Genes, CD36 and GNAT3**
 265 Vicente Ramirez, Stephen Wooding
University of California Merced, Merced, CA, USA
- P520 **De Novo Assembly of the Mouse Taste Transcriptome**
 266 Sunil K. Sukumaran, Brian C. Lewandowski, Alexander A. Bachmanov, Robert F. Margolskee
Monell Chemical Senses Center, Philadelphia, PA, USA
- P521 **Genetic and Demographic Influences on Odor Perception**
 267 Casey Trimmer¹, Jason R Willer², Andreas Keller³, Leslie B Vosshall³, Nicholas Katsanis², Hiroaki Matsunami², Joel D Mainland^{1,4}
¹*Monell Chemical Senses Center, Philadelphia, PA, USA*, ²*Duke University, Durham, NC, USA*, ³*The Rockefeller University, New York, NY, USA*, ⁴*University of Pennsylvania, Philadelphia, PA, USA*



Don Tucker
Award Finalist

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INGESTION

- P522 **Sweet Taste Regulates Carbohydrate Metabolism**
 268 Elizabeth Garcia¹, Maria G. Veldhuizen^{1,2}, Barkha Patel^{1,2}, Alexandra DiFeliceantonio^{1,2}, Dana M. Small^{1,2}
¹The John B. Pierce Laboratory, New Haven, CT, USA, ²Yale University, New Haven, CT, USA
- P523 **Food Restriction is Neither Necessary nor Sufficient to Alter Salivary Protein Expression.**
 269 Kristen E. Kay, Laura E. Martin, Ann-Marie Torregrossa
 SUNY University at Buffalo, Buffalo, NY, USA
- P524 **Changes in Salivary Protein Expression Increase Acceptance of Bitter Diets.**
 270 Laura E Martin, Kristen E Kay, Ann-Marie Torregrossa
 SUNY University at Buffalo, Buffalo, NY, USA
- P525 **Behavioral Taste Responses of Heterogeneous Stock Rats to Psychoactive Drugs**
 271 Rachel L Poole¹, Raul Vazquez², Alexander A Bachmanov¹, Michael G Tordoff¹
¹Monell Chemical Senses Center, Philadelphia, PA, USA, ²University of Pennsylvania, Philadelphia, PA, USA
- P526 **Re-Examining the Aversion Versus Avoidance Hypothesis for Tastes Associated with Lithium Chloride (LiCl) or Lactose in Rats**
 272 Lindsey A Schier, Kellie M Hyde, Alan C Spector
 Department of Psychology and Program in Neuroscience, Florida State University, Tallahassee, FL, USA

OBESITY

- P527 **Herbs and Spices Create Flavor Variety in a Meal to Increase Carrot Intake Among PROP Taster Children.**
 273 Elizabeth M Carney¹, Wendy M Stein², Nicole A Reigh², Kathleen L Keller^{1,2}
¹Department of Food Science, The Pennsylvania State University, University Park, PA, USA, ²Department of Nutritional Sciences, The Pennsylvania State University, University Park, PA, USA
- P528 **Taste-Mediated Dephalic-Phase Insulin Release is Modulated by Carbohydrate Content of Diet**
 274 Yonina G. Frim, John I. Glendinning
 Barnard College, Columbia University, New York, NY, USA
- P529 **Olfactory Sensitivity Declines with Number of Hours Awake**
 275 Rachel S. Herz¹, Eliza Van Reen^{1,2}, David Barker^{1,2}, Ashten Bartz², Mary Carskadon^{1,2,3}
¹Brown University Medical School, Providence, RI, USA, ²EP Bradley Hospital Sleep Research Lab, East Providence, RI, USA, ³University of South Australia Centre for Sleep Research, Adelaide, Australia
- P530 **Sucralose Affects Hormonal Responses to an Oral Glucose Load in People with Obesity but not in Normal-Weight People**
 276 M. Yanina Pepino¹, Mihoko Yoshino², Bruce Patterson², Samuel Klein², M. Belen Acevedo¹
¹University of Illinois at Urbana-Champaign, Urbana, IL, USA, ²Washington University School of Medicine, St. Louis, MO, USA



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- P531 277 The Receptor of Appetite Stimulating Hormone Ghrelin Facilitates Fat Taste Sensitivity in Female Mice**
 Tian Yu^{1,2}, Ashley N. Calder¹, Naima Dahir¹, Josh Blotter¹, Yuxiang Sun³, Timothy A. Gilbertson¹
¹Biology Department, Utah State University, Logan, UT, USA, ²Rocky Mountain Taste & Smell Center, Department of Cell and Developmental Biology, University of Colorado School of Medicine, Aurora, CO, USA, ³Department of Nutrition and Food Science, Texas A&M University, College Station, TX, USA

OLFACTORY BULB

- P532 278 Task Related Representations in the Cortico-Bulbar Feedback**
 Pedro Garcia da Silva^{1,2}, Cristina Velasquez¹, Benjamin Rebouillat^{1,3}, Dinu F. Albeanu¹
¹Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, USA, ²Champlimaud Foundation, Lisbon, Portugal, ³ENS Cachan, Paris, France
- P533 279 Interhemispheric Connections Between Olfactory Bulbs Improve Odor Detection.**
 Florence Kermen, Emre Yaksi
 Kavli Institute for Systems Neuroscience / Centre for Neural Computation, Trondheim, Norway
- P534 280 Behavioral Status Influences the Dependence of Odorant-Induced Change in Firing on Pre-Stimulus Firing Rate**
 Anan Li¹, Ethan M. Guthman², Wilder T. Doucette³, Diego Restrepo²
¹Xuzhou Medical University, Xuzhou, China, ²University of Colorado Anschutz Medical Campus, Aurora, CO, USA, ³Geisel School of Medicine at Dartmouth, Hanover, NH, USA
- P535 281 Olfactory Bulb Microcircuits and Their Roles in Odor Processing**
 Michele Migliore^{1,2}, Francesco Cavarretta^{1,3}, Addolorata Marasco⁴, Michael L. Hines¹, Gordon M. Shepherd¹
¹Department of Neurobiology, Yale University, New Haven, CT, USA, ²Institute of Biophysics, National Research Council, Palermo, Italy, ³Department of Mathematics, University of Milan, Milan, Italy, ⁴Department of Mathematics and Application "R. Cacciopoli", University of Naples, Naples, Italy
- PD5 282 Acetylcholine Rapidly Enhances Habituated Olfactory Bulb Odor Responses and Modulates Odor Salience**
 M. Cameron Ogg, Mounir Bendahmane, Max L. Fletcher
 University of Tennessee Health Science Center, Memphis, TN, USA
- P536 283 Within a Sniff: Comparing Inhalation-linked Temporal Dynamics of Olfactory Bulb Inhibitory Interneuron and Excitatory Output Neuron Subpopulations**
 Shaina M Short, Matt Wachowiak
 Department of Neurobiology and Anatomy, University of Utah, Salt Lake City, UT, USA
- P537 284 Functional Evidence for Selective Lateral Inhibition Mediated by Interglomerular Circuits in the Olfactory Bulb**
 Isaac A Youngstrom¹, Mike Economo¹, Daniel Zavitz², Alla Borisjuk², Matt Wachowiak¹
¹Department of Neurobiology and Anatomy, University of Utah, Salt Lake City, UT, USA, ²Department of Mathematics, University of Utah, Salt Lake City, UT, USA

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P538 Neuropilin-1 and the Positions of Glomeruli in the Mouse Olfactory Bulb

285 Bolek Zapiec, Olaf Bressel, Mona Khan, Peter Mombaerts
Max Planck Research Unit for Neurogenetics, Frankfurt, Germany

PERIPHERAL NERVOUS SYSTEM**P539 Analysis of Chorda-Tympani Nerve Responses to the “Super Saltyness” of Na₂CO₃ in Rats**

286 Joseph M. Breza¹, Steven J St. John²
¹*Eastern Michigan University, Ypsilanti, MI, USA*, ²*Rollins College, Winter Park, FL, USA*

P540 Genetic Deletion of TrpV1 and TrpA1 Channels Does Not Alter the Acid Avoidance Behavior in Mice

287 Thomas Finger^{1,2}, Tian Yu^{1,2}
¹*Rocky Mountain Taste & Smell Center, Aurora, CO, USA*, ²*Dept. Cell & Devel. Biology Univ. Colorado Sch. Medicine, Aurora, CO, USA*

P541 Is Spicy Hot Painful? In vivo Ca²⁺ Imaging of Mouse Trigeminal Ganglion Neurons

288 Sara CM Leijon¹, Amanda Ferreira-Neves^{1,2}, Nirupa Chaudhari¹, Stephen D Roper¹
¹*Dept. of Physiology and Biophysics, University of Miami Miller School of Medicine, Miami, FL, USA*, ²*Dept. of Structural and Functional Biology, University of Campinas, Campinas, Brazil*

P542 Objective Evaluation of the Gustatory Sensitiveness of Patients by the Electrophysiological Recording of the Response of Bud Cells to Taste Stimuli

289 Melania Melis¹, Giorgia Sollai¹, Danilo Pani², Piero Cosseddu², Annalisa Bonfiglio², Roberto Crnjar¹, Iole Tomassini Barbarossa¹
¹*Department of Biomedical Sciences, Cagliari University, Monserrato (CA), Italy*, ²*Department of Electrical and Electronic Engineering, Cagliari University, Cagliari, Italy*

P543 Are TRPA1 Channels Involved in the Detection of Chemical Irritants by the Earthworm, Eisenia hortensis?

290 Wayne L Silver, Eui Y Kim, Kathleen R Krivda, Jessica Y Robertson, Karleigh A Smith
Wake Forest University, Winston Salem, NC, USA

P544 Characterization of Computational Strategies Underlying Arm Coordination of Octopus rubescens During Chemotaxis

291 Dominic M Sivitilli¹, Venkatesh Gopal², Agnese Seminara³, Joseph Sisneros¹, David H Gire¹
¹*Department of Psychology, University of Washington, Seattle, WA, USA*, ²*Physics Department, Elmhurst College, Elmhurst, IL, USA*, ³*CNRS, Univ. Nice Sophia Antipolis, Nice, France*

SATURDAY

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PROGRAM IN DETAIL

SATURDAY, CONTINUED

COFFEE BREAK	
9:00 am - 10:30 am	Estero Foyer

SYMPOSIUM	
10:30 pm - 12:10 pm	Calusa F-H
Dynamic Computations for Navigating Complex Odor Environments	

Chair: David Gire

10:30 **Introduction**

292 David H Gire

Department of Psychology, University of Washington, Seattle, WA, USA

10:40 **Olfactory Trail Following in Mice**

293 Nathaniel Urban, Peter Jones, Bard Ermentrout, James Hengenus

University of Pittsburgh, Pittsburgh, PA, USA

11:05 **Odor Concentration Change Detectors in the Olfactory Bulb**

294 Ana Parabucki¹, Alex Bizer¹, Genela Morris¹, Matt Smear², Roman Shusterman^{1,2}

¹University of Haifa, Haifa, Israel, ²University of Oregon, Eugene, OR, USA

11:20 **Smelling Time: A Neural Basis for Olfactory Scene Analysis**

295 Jose C. Principe¹, Barry W. Ache², Andrew M. Hein³, Yuriy V. Bobkov¹, Matthew A. Reidenbach⁴

¹Dept. Electrical and Computer Engineering, U. Florida, Gainesville, FL, USA,

²Center Smell and Taste, U. Florida, Gainesville, FL, USA, ³Department of Ecology and Evolutionary Biology, Princeton U., Princeton, NJ, USA, ⁴Dept. Env. Sciences, U. Virginia, Charlottesville, VA, USA

11:45 **What Can we Learn From Robots About Odor Navigation?**

296 Venkatesh Gopal

Elmhurst College, Elmhurst, IL, USA



SATURDAY

PROGRAM IN DETAIL

SATURDAY, CONTINUED

SYMPOSIUM

10:30 am - 12:10 pm

Calusa A-C

Plasticity Along the Gustatory Processing Pathway

Chairs: Kathrin Ohla & Wolfgang Meyerhof

10:30 Introduction

298 Kathrin Ohla, Wolfgang Meyerhof

10:40 Gustatory Coding in Mice, from the Periphery to the Brain

299 Nicholas Ryba
NIDCR, NIH, Bethesda, MD, USA

11:05 Task- and Expectancy-Dependent Taste Representations in the Human Brain

300 Maria G Veldhuizen^{1,2}, Dana M Small^{1,2,3}
¹The John B Pierce Laboratory, New Haven, CT, USA, ²Yale University School of Medicine, Department of Psychiatry, New Haven, CT, USA, ³Modern Diet and Physiology Research Center, New Haven, CT, USA

11:20 Electrophysiological Signatures of Taste Quality Coding

301 Kathrin Ohla^{1,2,3}
¹German Institute of Human Nutrition (DIfE), Potsdam, Germany, ²NutriAct – Competence Cluster Nutrition Research, Berlin-Potsdam, Germany, ³Medical School Berlin, Berlin, Germany

11:45 Environmental and Physiological Factors Affecting the the Development and Plasticity of the Central Gustatory System.

302 David Hill
University of Virginia, Charlottesville, VA, USA

SATURDAY



PROGRAM IN DETAIL

SATURDAY, CONTINUED

SYMPOSIUM	
1:30 pm - 3:10 pm	Calusa A-C
Aquatic Olfaction in the Vertebrate Lineage, from Lamprey to Amphibians: Segregated Subsystems and Pheromone Detection	

Chair: Sigrun Korsching

- 1:30 **Introduction**
303 Sigrun I. Korsching
Institute of Genetics, University at Cologne, Cologne, Germany
- 1:40 **Complexity of Pheromones in the Sea Lamprey**
304 Weiming Li
Michigan State University, East Lansing, MI, USA
- 2:05 **Segregation of Olfactory Epithelia in Lungfish, an Early-Diverging Member of the Lobe-Finned Lineage**
305 Carolin Wittmer¹, Kanika Sharma², Adnan S. Syed², Christine Nowack¹, Sigrun I. Korsching²
¹University of Kassel, Kassel, Germany, ²University of Cologne, Cologne, Germany
- 2:20 **Olfactory Subsystems and Extranasal Chemosensation at the Base of Vertebrate Evolution**
306 Barbara Zielinski¹, Gheylen Daghfous^{2,3}, Réjean Dubuc^{2,3}
¹University of Windsor, Windsor, ON, Canada, ²Université de Montréal, Montréal, QC, Canada, ³Université de Québec à Montréal, Montréal, QC, Canada
- 2:45 **Segregation of Receptor Repertoires and Odor Responses in an Amphibian During Larval Stages and Metamorphosis**
307 Ivan Manzini^{1,2,3}, Adnan S. Syed⁴, Alfredo Sansone^{1,5}, Thomas Hassenklöver^{1,2,3}, Katarina Dittrich¹, Sigrun I. Korsching⁴
¹University of Göttingen, Göttingen, Germany, ²Justus-Liebig-University Gießen, Gießen, Germany, ³Center for Nanoscale Microscopy and Molecular Physiology of the Brain (CNMPB), Göttingen, Germany, ⁴University of Cologne, Cologne, Germany, ⁵University College London, London, United Kingdom

SATURDAY

PROGRAM IN DETAIL

SATURDAY, CONTINUED

SYMPOSIUM

1:30 pm - 3:10 pm

Calusa F-H

Emerging Mechanisms for Sensory - Immune Communication

Chairs: Lynnette McCluskey and Hong Wang

1:30 **Introduction**

308 Lynnette M McCluskey¹, Hong Wang²

¹Medical College of Georgia at AU, Augusta, GA, USA, ²Monell Chemical Senses Center, Philadelphia, PA, USA

1:40 **Sensory Neuron Detection of Bacteria and Modulation of Immune Host**
309 **Defenses**

Pankaj Baral¹, Kimbria Mills², Isaac M. Chiu³

¹Harvard Medical School, Boston, MA, USA, ²Harvard Medical School, Boston, MA, USA, ³Harvard Medical School, Boston, MA, USA

2:05 **Toll-like Receptor Signaling Promotes Development and Function of Sensory**
310 **Neurons Required for a C. elegans Pathogen-Avoidance Behavior**

Julia Brandt¹, Niels Ringstad²

¹Columbia, New York City, NY, USA, ²NYU, New York City, NY, USA

2:20 **Immune Interactions and Therapeutic Mesenchymal Stromal Cells**

311 Ke Ren

Department of Neural and Pain Sciences, School of Dentistry, and Program in Neuroscience, University of Maryland, Baltimore, MD, USA

2:45 **Chemosensory Tuft Cells and Intestinal Homeostasis**

312 Michael R. Howitt¹, Sydney Lavoie¹, Monia Michaud¹, Joel V. Weinstock², Carey Ann Gallini¹, Kevin Redding³, Weiwei Lei³, David Artis⁴, Peihua Jiang³, Robert F. Margolskee³, Wendy S. Garrett¹

¹Harvard T.H. Chan School of Public Health, Boston, MA, USA, ²Tufts Medical Center, Boston, MA, USA, ³Monell Chemical Senses Center, Philadelphia, PA, USA, ⁴Weill Cornell Medical College, New York, NY, USA

SATURDAY



PROGRAM IN DETAIL

SATURDAY, CONTINUED

JOURNAL CLUB	
3:30 pm - 4:50 pm	Captiva
Historical Contexts for Current Chemosensory Research	

Chairs: Charlotte Mistretta, Robert Bradley, Richard Costanzo, David Hill and Claire Murphy

- 313 **An Introduction to Conditioned Taste Aversion Highlighting Contributions to the Chemosensory Sciences from James C. Smith, Florida State University**
Conditioned Taste Aversion. What is it? Where did it come from? How is it used?
- 314 **Introduction to Conditioned Taste Aversion, Highlighting Jim Smith and his Contributions with Presentation of Early Paper/Work from J.C. Smith**
Alan Spector
Florida State University,
- 315 **Conditioned Taste Aversion in Chemosensory Research: Paper from the Spector Group in the Lineage of J.C. Smith**
Lindsey Schier
Florida State University, with Alan Spector,
- 316 **Current Paper Using Conditioned Taste Aversion Technique and How/Why Used**
Jian-You Lin
Brandeis University, with Don Katz

AWARD LECTURES	
7:00 pm - 9:00 pm	Calusa A-C

Chair: Thomas Finger

- 7:00 **AChems Young Investigator Award for Research in Olfaction or Nasal**
A1 **Chemosensation "Cholinergic Modulation of Olfactory Bulb**
Odor Responses: From Physiology to Behavior"
Max L. Fletcher, *University of Tennessee*
- 7:30 **Barry Jacobs Memorial Award for Research in the Psychophysics of Human Taste**
A2 **and Smell Multidisciplinary Research: "Towards a Better Understanding of**
Flavor Perception and Liking"
Christopher T. Simons, *The Ohio State University*
- 8:00 **Ajinomoto Award for Young Investigators in Gustation or Oral Chemosensation:**
A3 **"Gustatory Processing in the Human Brain"**
Kathrin Ohla, *German Institute of Human Nutrition Potsdam-Rehbruecke*
- 8:30 **Max Mozell Award for Outstanding Achievement in the Chemical Senses:**
A4 **"From Nose to Brain: A Longish Journey on the Path Less Traveled"**
Michael Meredith, *Florida State University*

SATURDAY

SATURDAY, CONTINUED

POSTER SESSION VI

9:00 pm - 11:00 pm

Estero Ballroom

DISCRIMINATION

- P601 **ITSS Principle in Measurement of Olfactory Sensitivity: “It’s the Stimulus, Stupid”**
317 William S Cain, J. Enrique Cometto-Muniz, Roland Schmidt
Chemosensory Perception Lab, UCSD, La Jolla, CA, USA
- P602 **Low Cost Behavioral Olfactometry with Internally Motivated and Naïve Mice**
318 Michael A. Dryden, Zachery A. Harkey, Thomas G. Mast
Eastern Michigan University, Ypsilanti, MI, USA
- P603 **Multisensory Flavor Perception: Applying a Decision-Theoretic Framework**
319 Lawrence Marks^{1,2,3}
¹*John B. Pierce Laboratory, New Haven, CT, USA*, ²*Department of Epidemiology (Environmental Health Sciences), Yale School of Public Health, New Haven, CT, USA*, ³*Department of Psychology, New Haven, CT, USA*
- P604 **Rapid Throughput Measurement of Sweet Taste Using Human Subjects**
320 Roy Kyle Palmer, Mariah M Stewart
Opertech Bio, Inc., Philadelphia, PA, USA

Don Tucker
Award Finalist

- P605 **The Perception of Potato Chip Key Odorants by Subjects with Different Sensitivities.**
321 Madeleine Rochelle¹, Geraldine Prévost², Terry Acree¹
¹*Cornell University, Ithaca, NY, USA*, ²*Procter & Gamble Services Company, Strombeek-Bever, Belgium*
- P606 **High Throughput Assessment of Bitter Taste in Human Subjects**
322 Mariah M Stewart, Roy Kyle Palmer
Opertech Bio, Inc., Philadelphia, PA, USA
- P607 **Influence of Nasal Pungency and Aroma Intensity on Liking and Emotional Reactions to Pure Aroma Compounds Using the “Mood Signature” Approach**
323 Beverly J. Tepper¹, Lumeng Jin¹, Jeannette Haviland-Jones^{1,2}, James E. Simon^{1,3}
¹*Center for Sensory Sciences & Innovation and Department of Food Science, Rutgers University, New Brunswick, NJ, USA*, ²*Department of Psychology, Rutgers University, Piscataway, NJ, USA*, ³*Department of Plant Biology, Rutgers University, New Brunswick, NJ, USA*

HEDONICS

- P608 **Otitis Media, Sweet Preference and Food Behaviors in College Aged Females**
324 Linda M. Bartoshuk¹, Howard J. Hoffman², Henrietta L. Logan¹, Britanny Martin¹, Charles A. Sims¹, Derek J. Snyder¹, Jennifer J. Stamps¹, Asli Z. Odabasi¹
¹*University of Florida, Gainesville, FL, USA*, ²*NIDCD, NIH, Bethesda, MD, USA*

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- P609** **How Certain Foods are Mouth-Watering: Salivary Responses to Various Odors**
 325 S Boesveldt¹, S Ma¹, TA Sledziewski², F Bikker³, ML Laine²
¹Division of Human Nutrition, Wageningen University, Wageningen, Netherlands,
²Department of Periodontology, Academic Centre for Dentistry Amsterdam,
 University of Amsterdam and VU University Amsterdam, Amsterdam, Netherlands,
³Department of Oral Biochemistry, Academic Centre for Dentistry Amsterdam,
 University of Amsterdam and VU University Amsterdam, Amsterdam, Netherlands
- P610** **Replacing “Astringency” Descriptor with “Dry, Rough” Changes Bitterness**
 326 **Ratings for Some Stimuli**
 Ciera Crawford¹, Cordelia Running^{1,2}
¹Purdue Food Science Department, Lafayette, IN, USA, ²Purdue Nutrition Science
 Department, Lafayette, IN, USA
- P611** **Influence of Chewing Sound Intensity on Food Taste and Liking**
 327 Antonia Lüönd¹, Corinne A. Hasler^{1,2}, Kourosh Roushan^{1,2}, Christof Stieger¹, Antje
 Welge-Lüssen¹
¹Department of Otorhinolaryngology, University Hospital of Basel, Basel,
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¹INSERM, U1028, CNRS, UMR5292, Lyon Neuroscience Research Centre,
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¹Department of Neurobiology, Faculty of Life Science, Tel Aviv University, Tel Aviv,
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¹University of Colorado Anschutz Medical Campus, Aurora, CO, USA, ²University of Colorado Anschutz Medical Campus, Aurora, CO, USA
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¹Institute of Psychology, University of Graz, Graz, Austria, ²BioTechMed-Graz, Graz, Austria, ³Leibniz-Institut für Wissensmedien, Tübingen, Germany, ⁴Institute of Zoology, University of Graz, Graz, Austria, ⁵Department of Diagnostic and Interventional Neuroradiology, RWTH Aachen University, Aachen, Germany, ⁶Fraunhofer Institute for Process Engineering and Packaging IVV, Freising, Germany
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¹SURF Program, The Scripps Research Institute, Jupiter, FL, USA, ²Department of Neuroscience, The Scripps Research Institute, Jupiter, FL, USA



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¹International School for Advanced Studies - SISSA, Trieste, Italy, ²Brigham Young University, Provo, UT, USA

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¹TU Dresden, Dresden, Germany, ²University of Wroclaw, Wroclaw, Poland, ³Dokuz Eylul University, Izmir, Turkey, ⁴Takasago International Corporation, Paris, France
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343 Rik Sijben¹, Sonja Maria Hoffmann-Hensel¹, Rea Rodriguez-Raecke^{1,2}, Jessica Freiherr^{1,2}
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¹Dept of Biology, Case Western Reserve University, Cleveland, OH, USA, ²Dept of Neurosciences, Case Western Reserve University School of Medicine, Cleveland, OH, USA

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¹Maria-von-Linden-Schule, D-89518 Heidenheim, Germany, ²Faculty of Natural Sciences, Institute for Neurobiology, University of Ulm, D-89081 Ulm, Germany, ³Max-Planck-Institute for Biological Cybernetics, D-72076 Tübingen, Germany
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¹Department of Chemosensation, AG Neuromodulation, Institute for Biology II, RWTH Aachen University, Aachen, Germany, ²Department of Neurobiology and Anatomy, Brain Institute, University of Utah, Salt Lake City, UT, USA
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¹Carnegie Mellon University, Pittsburgh, PA, USA, ²University of Utah, Salt Lake City, UT, USA, ³University of Pittsburgh, Pittsburgh, PA, USA
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¹Friedrich-Schiller University Jena, Jena, Germany, ²RWTH Aachen, Aachen, Germany
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¹Institute of Genetics, Biocenter, University of Cologne, Cologne, Germany, ²Institute of Neurophysiology and Cellular Biophysics, University of Göttingen, Göttingen, Germany, ³Center for Nanoscale Microscopy and Molecular Physiology of the Brain (CNMPB), Göttingen, Göttingen, United Kingdom, ⁴Department of Cell and Developmental Biology, University College London, London, Germany, ⁵Department of Animal Physiology and Molecular Biomedicine, Justus-Liebig-Universität Giessen, Gießen, Germany
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¹Department of Chemistry & Chemical Biology, Harvard University, Cambridge, MA, USA, ²Department of Cell Biology, Harvard Medical School, Boston, MA, USA
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- P642 **Microfluidics-on-a-Tongue Imaging Chamber for Functional Taste Mapping**
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Jisoo Han^{1,2}, Myunghwan Choi^{1,2}

¹*Department of Biomedical Engineering, Sungkyunkwan University, Suwon, Korea,*

²*Center for Neuroscience and Imaging Research, Institute for Basic Science (IBS), Suwon, Korea*

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Deanna Hojati¹, Shobha Mummalaneni¹, Jie Qian¹, Mehmet/H Ozdener², Vijay Lyall¹

¹*Virginia Commonwealth University, Richmond, VA, USA,* ²*Monell Chemical Senses Center, Philadelphia, PA, USA*

- P644 **CALHM3 is an Essential Component of the Voltage-Gated ATP Release**
360 **Channel in Type II Taste Cells**

Zhongming Ma¹, Akiyuki Taruno³, Michael Tordoff⁴, Ichiro Matsumoto⁴, Makoto Ohmoto⁴, Jessica E. Tanis⁵, J. Kevin Foskett^{1,2}

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- P645 **A Role of TrpM5 in Fat Taste Transduction and Metabolism**

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VISUAL PROGRAM AT A GLANCE

	WEDNESDAY, APRIL 26	THURSDAY, APRIL 27	
8 am		BREAKFAST CORNERS 7:30 – 9 am <i>Estero Terrace</i>	8 am
9 am			9 am
10 am	COMMUNITY OUTREACH EVENT 9 am – Noon <i>Imaginarium Science Center</i>	SATELLITE SYMPOSIUM: Cellular and Molecular Mechanisms of Chemosensory Detection 8 – 11:40 am <i>Calusa ABC</i>	POSTER SESSION I 8 – 10:30 am <i>Estero Ballroom</i>
11 am		SYMPOSIUM: Regulation of Sensory Cell Turnover 10:30 am – 12:10 pm <i>Calusa A-C</i>	SYMPOSIUM: TRP Channels in Model Organisms: Roles in Sensation and Behavior 10:30 am – 12:10 pm <i>Calusa F-H</i>
Noon			Noon
1 pm		Chemical Senses Mtg 12:30 – 1:30 pm <i>Sanibel</i>	Diversity Fellow Lunch 12:30 – 1:30 pm <i>Cove at Tarpon Bay</i>
2 pm		ACHEMS EXECUTIVE COMMITTEE MEETING 12:00 – 4:00 pm <i>Blue Heron AB</i>	SYMPOSIUM Clinical Symposium: Chemical Senses in Cancer and Cancer Therapy 1:30 – 3:30 pm <i>Calusa A-D</i>
3 pm			
4 pm		THE BARRY DAVIS FUNDING WORKSHOP 3:40 – 5:40 pm <i>Calusa F-H</i>	WORKSHOP: RNAseq Interest Group and Workshop 3:45 – 5:15 pm <i>Captiva</i>
5 pm	WELCOME/AWARDS CEREMONY 5 – 6 pm <i>Calusa A-D</i>		
6 pm	GIVAUDAN LECTURE 6 – 7 pm <i>Calusa A-D</i>	ACheMS Career/Networking Social 5:45 – 7 pm <i>Estero Foyer</i>	
7 pm		SYMPOSIUM President's Symposium: Tell Me About It: Intraspecies Social Communication in Mammals and Insects 7 – 9 pm <i>Calusa A-D</i>	
8 pm	WELCOME BANQUET 7 – 9 pm <i>Waterfall Pool Deck</i>		
9 pm		POSTER SESSION II 9 – 11:00 pm <i>Estero Ballroom</i>	
10 pm	GRADUATE STUDENT HAPPY HOUR 9 – 11 pm <i>Mangroves Patio</i>		

PROGRAM

VISUAL PROGRAM AT A GLANCE

FRIDAY, APRIL 22		SATURDAY, APRIL 23			
8 am	<p>POSTER SESSION III</p> <p>8 – 10:30 am</p> <p><i>Estero Ballroom</i></p>	<p>POSTER SESSION V</p> <p>8 – 10:30 am</p> <p><i>Estero Ballroom</i></p>		8 am	
9 am				9 am	
10 am				10 am	
11 am	<p>SYMPOSIUM: The Role of Multimodal Sensory Integration in Shaping Behavior Across Diverse Animal Taxa</p> <p>10:30 am – 12:10 pm</p> <p><i>Calusa A-C</i></p>	<p>SYMPOSIUM: Chemosensory Thalamus</p> <p>10:30 am – 12:10 pm</p> <p><i>Calusa F-H</i></p>	<p>SYMPOSIUM: Plasticity Along the Gustatory Processing Pathway</p> <p>10:30 am – 12:10 pm</p> <p><i>Calusa A-C</i></p>	<p>SYMPOSIUM: Dynamic Computations for Navigating Complex Odor Environments</p> <p>10:30 am – 12:10 pm</p> <p><i>Calusa F-H</i></p>	11 am
Noon					Noon
1 pm	<p>ACHEMS BUSINESS MEETING</p> <p>12:50 – 1:50 pm</p> <p><i>Calusa A-D</i></p>	<p>SYMPOSIUM: Aquatic Olfaction in the Vertebrate Lineage, from Lamprey to Amphibians</p> <p>1:30 – 3:10 pm</p> <p><i>Calusa A-C</i></p>		<p>SYMPOSIUM: Emerging Mechanisms for Sensory - Immune Communication</p> <p>1:30 – 3:10 pm</p> <p><i>Calusa F-H</i></p>	1 pm
2 pm	<p>SYMPOSIUM: Public Health & Industry Symposium</p> <p>2 – 4 pm</p> <p><i>Calusa A-D</i></p>				2 pm
3 pm					3 pm
4 pm		<p>JOURNAL CLUB</p> <p>Historical Contexts for Current Chemosensory Research</p> <p>3:30 – 4:50 pm</p> <p><i>Captiva</i></p>			4 pm
5 pm					5 pm
6 pm					6 pm
7 pm	<p>POLAK AWARD LECTURES</p> <p>7 – 9 pm</p> <p><i>Calusa A-D</i></p>	<p>AWARD LECTURES</p> <p>7 – 9 pm</p> <p><i>Calusa A-C</i></p>			7 pm
8 pm					8 pm
9 pm	<p>POSTER SESSION IV</p> <p>9 – 11:00 pm</p> <p><i>Estero Ballroom</i></p>	<p>POSTER SESSION VI</p> <p>9 – 11 pm</p> <p><i>Estero Ballroom</i></p>			9 pm
10 pm					10 pm

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EXHIBIT HOURS

Thursday, April 27
8 – 10:30 am

Friday, April 28
8 – 10:30 am

Saturday, April 29
8 – 10:30 am



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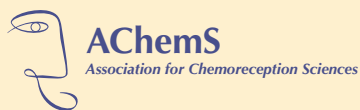


AGENDA

Friday, April 28, 2017

12:50 – 1:50 pm | Calusa Ballroom A-D | Hyatt Coconut Point

1. Call to Order – Steven Munger, PhD, President
2. Approval of Past Business Meeting Minutes – Steven Munger, PhD, Bonita Springs, FL, April 2016
3. Report from the President – Steven Munger, PhD
4. Report from the Elections Committee – Susan Travers, PhD, Chair
 - a) 2017 Election Results
 - President-Elect
 - Program Chair-Elect
 - Junior Councilor
 - b) Thank You to Outgoing Officers
 - Theresa White, PhD, Senior Councilor
 - Debra Fadool, PhD, Senior Advisor
 - Linda Barlow, PhD, Program Chair
5. Report from the Treasurer – Joel Mainland, PhD
6. Report from the Secretary – Rachel Herz, PhD
7. Report from the Program Committee Chair – Linda Barlow, PhD
8. Report from the Membership Chair – Kurt Illg, PhD
9. Report from the Councilors – Theresa White, PhD
10. Other Committee Reports – Steven Munger, PhD
11. Report from the NIDCD – Jim Battey, PhD
12. Welcome to the New President and Passing of Gavel – Steven Munger, PhD
13. Old Business
 - New Business
14. Adjourn



AChemS XL 40TH ANNUAL MEETING



APRIL 18-21, 2018
HYATT REGENCY COCONUT POINT
BONITA SPRINGS, FLORIDA