NSF Industry/University Cooperative Research Planning Grant Workshop for

Center for
SENSORY SCIENCES & INNOVATION (CSSI)

Rutgers, The State University of New Jersey
&
University of California-Riverside

Rutgers University
November 6 & 7, 2014
Center for Sensory Sciences & Innovation (CSSI)  
National Science Foundation Planning Workshop  

**DAY 1: THURSDAY NOVEMBER 6:**

- **7:45 AM**  
  Breakfast & Networking Time. Participant Registration begins & continues all day

- **8:30 AM**  
  Welcome Remarks (Center Director Tepper, Site Director Arpaia, Dr. Christopher Molloy, Dr. Robert Goodman)

- **8:45 AM**  
  Vision, Capabilities & Value Proposition of the Center (Profs Tepper & Arpaia)

- **9:25 AM**  
  NSF I/UCRC Presentation (NSF I/UCRC Program Director & Connie Chang Center Evaluator)

- **10:25 AM**  
  BREAK & Posters

- **10:45 AM**  
  Project Proposal Presentations **SESSION 1** (5 projects, 15 min each, & 5 min Q&A & L.I.F.E. form execution)

- **12:25 PM**  
  LUNCH & Posters

- **1:25 PM**  
  Project Proposal Presentations **SESSION 2** (5 projects, 15 min each, & 5 min Q&A & L.I.F.E. form execution)

- **3:05 PM**  
  BREAK & Posters

- **3:25 PM**  
  Open Discussion – of projects & company needs not addressed in the above project presentations (All participants - lead by Profs Tepper & Arpaia)

- **4:10 PM**  
  Upcoming evening & Day 2 Activities (Prof Tepper)

- **4:25 PM**  
  SOCIAL & Posters

**DAY 2: FRIDAY NOVEMBER 7**

- **7:45 AM**  
  Arrival & Breakfast

- **8:30 AM**  
  L.I.F.E. FORM Review & Discussion - one industry volunteer to present each of the 10 projects to the group for discussion. Moderated by Connie Chang, Center Evaluator (All participants).

- **10:00 AM**  
  CSSI response to feedback from Industry Workshop, L.I.F.E. discussion (Profs Tepper & Arpaia)

- **10:45 AM**  
  BREAK

- **11:00 AM**  
  NSF Closed Session with Industry - (NSF & Industry)

- **11:45 AM**  
  Next Steps, Action Items & Closing Remarks (All participants)

- **12:15 PM**  
  Adjourn and Lunch
Session 1

10:45 AM - 11:05 AM - ID: 1
Project Title: “Nose-On-A-Chip”: Uncovering the Principles of Smell Recognition
PI: Alexey Ryazanov, Rutgers University

11:05 AM - 11:25 AM - ID: 2
Project Title: Methodological in vivo approaches for determining the antiobesity effects of new products, chemicals, and materials in rodents. Validation of raspberry ketone as an antiobesity compound.
PI: Nicholas Bello, Rutgers University

11:25 AM - 11:45 AM - ID: 3
Project Title: Strategies to Predict and Prevent Mandarin Postharvest Flavor Loss
PI: Mary Lu Arpaia, University of California, Riverside

11:45 AM - 12:05 PM - ID: 4
Project Title: Children’s Sensitivity to Bitter Taste and Development of Edible Polymer Films for Pediatric Drug Delivery
PI: Rachel Meyers, Rutgers University

12:05 PM - 12:25 PM - ID: 5
Project Title: Using Scent to Enhance Vigilance and Memory Performance Among Security Personnel
PI: Maureen Morrin, Temple University

Session 2

1:25 PM -1:45 PM - ID: 6
Project Title: Mint flavor and dieters’ perceptions of food healthfulness
PI: Maureen Morrin, Temple University

1:45 PM - 2:05 PM - ID: 7
Project Title: Effects of emotion and memory on odor perception
PI: John McGann, Rutgers University

2:05 PM - 2:25 PM - ID: 8
Project Title: Graphene-Hybrid Nanomaterial-based bioelectronic Tongue for the Sensitive and Selective Detection of Sweeteners
PI: Ki-Bum Lee, Rutgers University

2:25 PM - 2:45 PM - ID: 9
Project Title: Smartphone-Integratable Nano Gas Sensor System for Fragrance Industry
PI: Nosang Myung, University of California, Riverside

2:45 PM - 3:05 PM - ID: 10
Project Title: From smell to taste: Human Implicit (Subliminal) Mood Reactions
PI: Jeannette Haviland-Jones, Rutgers University
Title: Engrailed 2 (En 2) is a transcription factor critical for neural development.  
Author(s): A Gupta, JL Verpeut, NT Bello

Title: LC/MS-Guided Investigation of Natural Products Chemistry: A Case Study on African Medicinal Plants  
Author(s): K. Gustafson, T. Villani, J. Zhen, S. Carr, D.R. Mumbengegwi, Marius Hedimbi, I. Raskin, J.E. Simon and Q.L. Wu

Title: The Planckian Information Theory (PIT) in Natural and Human Sciences  
Author(s): Sungchul Ji,

Title: Influence of Odor Intensity and Mood on Hedonic Reactions to Aroma Compounds In a Multi-ethnic Sample of Young Adults  
Author(s): Lumeng Jin, Jeannette Haviland-Jones, James E Simon, Beverly J Tepper

Title: The UC Riverside Citrus Variety Collection, a Comprehensive Resource for Citrus Genetic Material and Information  
Author(s): Tracy Kahn, Toni Siebert and David Karp Dept. of Botany & Plant Sciences, University of California, Riverside, CA

Title: Using Chemiometrics to Quantitatively Compare Popular Varieties of Hops and Basil  
Author(s): Ian MacCloud, Thomas S. Villani and James E. Simon

Title: Variability in response to a nitrogen atmosphere among mandarin genotypes  
Author(s): David Obenland and Mary Lu Arpaia

Title: Mandarin flavor and aroma volatile composition are strongly influenced by holding temperature  
Author(s): David Obenland, Sue Collin, Jim Sievert and Mary Lu Arpaia

Title: New Use Agriculture and Natural Plant Products Program (NUANPP): A Few Examples of Research & Development Projects  
Author(s): James E. Simon, Rodolfo Juliani, Qingli Wu, Robert Pyne, William Reichert,

Title: Role of the Therapeutic Film Architecture on Taste Perception of Bitter Compounds  
Author(s): Paul Takistov

Title: Use of Porcine Mesothelial Extracellular Matrix for Skin Regeneration  
Author(s): Pei-Chin Tsai, Zheng Zhang, Charles Florek, Bozena Michniak-Kohn

Title: Effects of a ketogenic diet on social outcomes in Engrailed 2 null mice.  
Author(s): J.L. Verpeut, A. Walters, E. CiCicco-Bloom, N.T. Bello.

Title: Reduced evoked neural activity in the locus coeruleus of female rats exposed to dietary-induced binge eating.  
Author(s): Chung-Yang Yeh, Jessica L. Verpeut, Nicholas T. Bello
(Posters continued)

**Title:** Graphene-nanoparticle hybrid biosensors to enhance the detection of disease  
**Author(s):** Perry T. Yin, Sung Myung, and Ki-Bum Lee

**Posters relating to Organizations/Resources/Programs:**

**Title:** Science Meets Business - Fueling Innovation through Graduate Education! Rutgers Master of Business and Science MBS degree.  
**Author(s):** Bozena Michniak-Kohn

**Title:** The Center for Dermal Research (CDR)  
**Author(s):** Bozena Michniak-Kohn

**Title:** Office of Translational Research – Building Value in Biomedical Research  
**Author(s):** S. David Kimball

**Title:** Office of Corporate Engagement – The New Rutgers – Open for Business  
**Author(s):** Cherise Kent

**Title:** The New Jersey Center for Biomaterials (NJCBM)  
**Author(s):** Joachim Kohn