### **Higgledy-Piggledy Plenary Lecturers**

Written and Presented by May R. Berenbaum at the 2014 Annual Meeting of the International Society of Chemical Ecology

#### 1. JERROLD MEINWALD, Chemical ecology's past, present, and possible future

Higgledy piggledy Florida bella moths feed upon rattlebox (toxic as hell)

Packing their glands with hydroxydanaidal This species thinks that recycling is swell.

### 2. BONNIE BASSLER, Tiny conspiracies: cell-to-cell communication in bacteria

Higgledy piggledy *Vibrio harveyi*Life as a single bacterium sucks.

Making your signaling autoinducible means quorum sensing is super de-LUX

#### 3. CATHERINE DULAC, Molecular, genomic and neuronal bases of pheromonal signaling in mammals

Jiggery pokery Little *Mus musculus* Parenting duties are left to the bride

Now we know knocking out *Trp2C* genes helps the male mice find their feminine side

#### 4. DANIELLE WHITTAKER, Silent songs: content and context of avian chemical signals

Higgledy piggledy Junco hyemalis fathers a chick and won't bother to rear it

Wooing a mate with his 2-tetradecanone Male junco courtship song "Smells like preen spirit"

## 5. SYLVIA ANTON, Modulation of insect olfaction: from neurons to behavior

Higgledy piggledy Male cotton leafworm moths aren't like humans (that's not a surprise) Sex signals augment their macroglomerulus; that's not in men what increases in size.

## 6. MURRAY ISMAN, Mixtures matter, and other things I've learned about insect-plant chemical interactions

Higgledy piggledy Two-spotted spider mites due to resistance are quite pestilential

Not so when faced with a bioinsecticide Rosemary oil control's really essential

# 7. ROBERT RAGUSO, Landscapes of linalool: evolution of a volatile floral signal

Higgledy piggledy *O. harringtonii* Cross-pollination is really a chore

Offering visitors Linalyl alcohol They don't even ask for IDs at the door