



# Symposium Program

## 45th Annual Southern California Botanists Symposium

### *New Frontiers in the Botany: Discoveries and Emerging Tools*

Saturday, October 5, 2019  
Pomona College—Seaver Auditorium

8:00-9:00 am. **Registration**

9:00-9:10 am. **Annual SCB Business Meeting**

9:10-9:15 am. **Opening Remarks**

9:15-9:45 am. **Old Plants, New Tricks: Phenological Revelations from Herbarium Specimens**, Katelin Pearson, Hoover Herbarium, California Polytechnic State University, San Luis Obispo.

9:45-10:15 am. **Species delimitation in the genomic era: The role of morphology**, Sarah Jacobs Ph.D. *presenting for Felipe Zapata Ph.D.*, University of California Los Angeles.

10:15-10:45 am. **BREAK**

10:45-11:25 am. **The Flora of San Diego County: Integrating Museum Specimens and Vetted iNat Observations to Improve Our Regional Botanical Knowledge**, Jon P. Rebman, Ph.D., Curator of Botany, San Diego Natural History Museum.

11:25-11:55 am. **Plant Discovery in California**. Dean Wm. Taylor, Ph.D.

11:55-1:30 pm. **LUNCH**

1:30-2:00 pm. **Chloroplast genome evolution in the parasitic sandalwood order, Santalales**. Joshua Der, Ph.D., Assistant Professor, California State University, Fullerton.

2:00-2:35 pm. **Rethinking the Herbarium Specimen in the Digital Age**. Mason Heberling Ph.D., Assistant Curator of Botany, Carnegie Museum of Natural History.

2:35-3:15 pm. **BREAK**

3:15-3:50 pm. **Conservation Genomics: Applications of Reduced Representation Genome Sequencing**, Elizabeth R. Milano\* Ph.D. and Amy G. Vandergast Ph.D., United States Geological Survey.

3:50-4:30 pm. **Can You Trust iNaturalist?** Ken-ichi Ueda, iNaturalist Co-founder.

4:30-4:45 pm. **Closing Remarks**

*Evening Events Continue at Rancho Santa Ana Botanic Garden*

5:00-8:00 pm. **Mixer at Rancho Santa Ana Botanic Garden**

5:30-6:30pm **Poster Session**, East Classroom Rancho Santa Ana Botanic Garden

5:30-7:30pm **Dinner Service**: Luchador Urban Taqueria (\$20 meal ticket required for dinner).

6:00-7:00pm **Sage Against the Machine**. Johnson's Oval, Rancho Santa Ana Botanic Garden



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Poster Session 5:30 to 6:30 pm to be held in the East Classroom at Rancho Santa Ana Botanic Garden.

1. **Augmenting the smallest California endangered *Dudleya brevifolia* population.** Stacy Anderson<sup>1</sup>, Joe Davitt<sup>1</sup>, David Hogan<sup>2</sup>, Joyce Maschinski<sup>1,3</sup>, Tobin Weatherson<sup>1</sup>, <sup>1</sup>San Diego Zoo Global, <sup>2</sup>The Chaparral Lands Conservancy, and <sup>3</sup>Center for Plant Conservation
2. **Testing the effects of site selection and artificial shelters on native plant recruitment from seed in a degraded coastal sage scrub restoration.** Marlee Antill, Erin Questad, California State Polytechnic University, Pomona
3. **Nutlet diversity of Amsinckiinae in western North America.** Amsinckiinae Working Group: Eli Balderas<sup>1</sup>, C. Matt Williams<sup>1</sup>, Kristen E. Hasenstab-Lehman<sup>1</sup>, Makenzie E. Mabry<sup>2</sup>, Michael G. Simpson<sup>3</sup>; <sup>1</sup>Department of Conservation and Research, Santa Barbara Botanic Garden; <sup>2</sup>Pires Lab, University of Missouri; <sup>3</sup>Department of Biology, San Diego State
4. **Evaluating the circumscription of varieties of the Seaside fiddleneck *Amsinckia spectabilis* (Boraginaceae) using morphometric analyses of fruit characters.** Eli Balderas<sup>1,2</sup>, C. Matt Williams<sup>1</sup>, and Kristen Hasenstab-Lehman<sup>1</sup>, <sup>1</sup>Department of Conservation and Research, Santa Barbara Botanic Garden, <sup>2</sup>University of California at Santa Barbara
5. **Revival of the UC Irvine Herbarium.** Rebecca E. Crowe, Peter A. Bowler, UC Irvine Arboretum and Herbarium
6. **Split Decisions: a herbarium specimen conservation project.** Erika M. Gardner, Smithsonian Institution, National Museum of Natural History, 1000 Constitution Ave. NW, Washington DC, 20013
7. **Sage in the sun: Leaf and shrub level traits involved in heat exchange processes in co-occurring *Salvia apiana* and *Salvia mellifera*.** Caitlin Hazelquist, Ariana Dorticos, Jeremy Read, and John Skillman, California State University, San Bernardino
8. **A vascular flora of Conglomerate Mesa and Malpais Mesa, Inyo County, CA .** Maria Jesus, Naomi Fraga, Rancho Santa Ana Botanic Garden, 1500 North College Ave, Claremont, CA 91711
9. **NEON's Public Library: building a network-wide open-access herbarium and biorepository for the digital age.** Kate Ludwig, National Ecological Observatory Network, Domain 17, Fresno, CA
10. **A Flora of the Chiquita Springs Basin, Santa Ana Mountains, Peninsular Ranges of Southern California.** Harrison McGowen
11. **Testing the temperatures: evaluating the effect of storage temperature on seed viability of *Eriastrum densifolium* ssp. *sanctorum*.** Cassandra M. Rodriguez and Darren R. Sandquist, Physiological Plant Ecology Lab, California State University, Fullerton
12. **A vascular flora of the upper Sespe Creek watershed, Ventura County, CA.** Christina Varnava, Rancho Santa Ana Botanic Garden & Claremont Graduate University
13. **Salinity Responses of the Desert Shrubs *Isocoma acradenia* and *Larrea tridentata*.** Whittemore, KS., Ibarra, JI., Naquin, TE., Silva, MA., Cho, A., Teeple, JB., Schenk, JH., Mocko, K., Burnaford, JL., Hoese, WJ, California State University, Fullerton, Department of Biological Science