

Ramesh Sagili

Department of Horticulture

Phone: (541) 737-5460; Fax: (541) 737-3479; ramesh.sagili@oregonstate.edu
<http://horticulture.oregonstate.edu/content/ramesh-sagili>

EDUCATION & TRAINING

Ph.D. 2007 Texas A&M University, College Station, TX
M.S. 1998 Andhra Pradesh Agricultural University, INDIA

RESEARCH & PROFESSIONAL EXPERIENCE

2022-present: Professor, Department of Horticulture, Oregon State University
2017-2022: Associate Professor, Department of Horticulture, Oregon State University
2011- 2017: Assistant Professor, Department of Horticulture, Oregon State University
2009 – 2011: Assistant Professor-Senior Research, Department of Horticulture, OSU

SYNERGISTIC ACTIVITIES

2018-19 Entomological Society of America Awards Committee (PBESA Awards)
2012 President AAPA (American Association of Professional Apiculturists)
2011 Vice President AAPA (American Association of Professional Apiculturists)

HONORS & AWARDS

2023 USDA National Pollinator Subcommittee Member (appointed by Secretary of Agriculture)
2019 Excellence in Post-Doctoral Mentoring Award (OSU)
2018 Outreach and Engagement Award (OSU)
2017 Pacific Branch Entomological Society of America Research Award
2017 Eastern Apicultural Society Hambleton Research Award
2015 Savery Outstanding Young Faculty Award (College of Agricultural Sciences)

GRANTS RECEIVED (last 4 years)

2023-2027: USDA-SCRI (\$4.2 million) Evaluating and mitigating European foulbrood disease in honey bee colonies pollinating specialty crops to enhance and sustain pollination.
2021-2023: USDA-AFRI (\$499,000) Improving honey bee nutrition by understanding nutritional composition of pollens and micronutrient requirements of honey bees (Status: PI)

2019-2022: USDA-AFRI (\$500,000) Pollinator health through extension volunteer programs (Status: co-PI).

2018-2021: DARPA (\$800,000) Managing emergent behavior of interacting autonomous systems (Status: co-PI)

PUBLICATIONS (last 4 years)

Carlson EA, Melathopolos A, Sagili RR (2024) The power to (detect) change: Can honey bee pollen be used to monitor for pesticide residue in the landscape? PLoS One (in press).

Sagili R et al. (2024) Standard methods for pollination research with *Apis mellifera* 2.0 Journal of Apicultural Research. <https://doi.org/10.1080/00218839.2024.2369284>

Quiroz EE, Prapapongpan P, Resch G, Chakrabarti P, Sagili RR, Blakemore PR (2023) Synthesis of [28-¹³C]-24-Methylenecholesterol from 3 α -Hydroxy-5-cholenoic Acid Using 1-tert-Butyl-1H-tetrazol-5-yl [13C]-Methyl Sulfone to Methyleneate an Isopropyl Ketone Intermediate, Arkivoc 2024 (2) 202312100

Prouty C, Jack C, Sagili R, Ellis JD (2023) Evaluating the Efficacy of Common Treatments Used for *Vairimorpha* (*Nosema*) spp. Control. Appl. Sci. 13, 1303. <https://doi.org/10.3390/app13031303>

Sagili R and Chakrabarti P (2023) Managed foraging for honey and crop pollination - Honey bees as livestock. Elsevier Publication, Pages 175-193 <https://doi.org/10.1016/C2021-0-00252-2>
Carlson EA, Melathopoulos A and Sagili R (2022) The Value of Hazard Quotients in Honey Bee (*Apis mellifera*) Ecotoxicology: A Review. Front. Ecol. Evol. 10:824992. doi: 10.3389/fevo.2022.824992

Carlson EA*, Melathopoulos A and Sagili R (2022) The Value of Hazard Quotients in Honey Bee (*Apis mellifera*) Ecotoxicology: A Review. Front. Ecol. Evol. 10:824992. doi: 10.3389/fevo.2022.824992

Briana E Price, Carolyn Breece, Gracie Galindo, Abigail Greenhalgh, Ramesh Sagili, Man-yeon Choi, Jana C Lee, Nonnutritive Sugars for Spotted-Wing *Drosophila* (Diptera: Drosophilidae) Control Have Minimal Nontarget Effects on Honey Bee Larvae, a Pupal Parasitoid, and Yellow Jackets, Environmental Entomology, 2022;, nvac095, <https://doi.org/10.1093/ee/nvac095>

Hopkins BK, Chakrabarti P, Lucas HM⁺, **Sagili RR**, Sheppard WS (2021) Impacts of different winter storage conditions on the physiology of diutinus honey bees (*Apis mellifera* L.). Journal of Economic Entomology, toaa302, <https://doi.org/10.1093/jee/toaa302>

Kelly Kulhanek, Steinhauer N, Wilkes J, Wilson M, Spivak M, **Sagili RR**, Tarpy DR, McDermott E, Garavito A, Rennich K, vanEngelsdorp D (2021) Survey-derived best beekeeping management practices improve colony health and reduce mortality. PLoS ONE 16(1): e0245490. <https://doi.org/10.1371/journal.pone.0245490>

Topitzhofer E, Lucas M, Carlson E, Chakrabarti P, **Sagili RR** (2021) Collection and Identification of Pollen from Honey Bee Colonies. *Journal of Visualized Experiments* (167), e62064, doi:10.3791/62064.

Chakrabarti P and **Sagili RR** (2020) Changes in Honey Bee Head Proteome in Response to Dietary 24-Methylenecholesterol. *Insects* 11(11):743 doi:10.3390/insects11110743

Milone J, Chakrabarti P, **Sagili RR** and Tarpy DR (2020) Colony-level pesticide exposure affects honey bee (*Apis mellifera* L.) royal jelly production and nutritional composition. *Chemosphere* <https://doi.org/10.1016/j.chemosphere.2020.128183>

Chakrabarti P[#], Lucas H⁺ and **Sagili RR** (2020) Novel insights into dietary phytosterol utilization and its fate in honey bees (*Apis mellifera* L.). *Molecules* 25(3), 571 <https://doi.org/10.3390/molecules25030571>.

Chakrabarti P[#], Lucas H⁺, Carlson E^{*}, **Sagili RR** (2020) Field rates of Sivanto[™] (flupyradifurone) and Transform[®] (sulfoxaflor) increase oxidative stress and induce apoptosis in honey bees (*Apis mellifera* L.). *PLoS ONE* 15(5): e0233033.

Sagili RR, Caron DM (2020) Honey bee pollination in the Pacific Northwest. *American Bee Journal* 160 (5): 575-577.

Relevant Extension Publications (last 4 years)

Breece C+, Topitzhofer E+, **Sagili RR**. 2021. Identifying American Foulbrood. Oregon State University Extension Publication (in press). Role: co-authored the publication.

Topitzhofer E, Hedstrom C, Chakrabarti P, Melathopoulos A, Rondon S, Langellotto G, **Sagili R**. 2020. Asian Giant Hornet: A potential threat to honeybee colonies in Oregon. OSU Extension Service EM 9297.

4. Topitzhofer E+, Breece C+, Wyns D+, Sagili R. 2020. Revenue Sources for a Commercial Beekeeping Operation in the Pacific Northwest. Fact Sheet #1 of Budgeting for a Commercial Beekeeping Operation in the Pacific Northwest. OSU Extension Service PNW 742. Role: co-authored the publication.

5. Topitzhofer E+, Breece C+. Wyns D+, Sagili R. 2020. Operational Equipment Expenses for a Commercial Beekeeping Operation in the Pacific Northwest. Fact Sheet #2 of Budgeting for a Commercial Beekeeping Operation in the Pacific Northwest. OSU Extension Service PNW 743. Role: co-authored the publication.

6. Topitzhofer E+, Breece C+. Wyns D+, Sagili R. 2020. Beekeeping Equipment Expenses: Woodenware and Other Components. Fact Sheet #3 of Budgeting for a Commercial Beekeeping Operation in the Pacific Northwest. OSU Extension Service PNW 744. Role: co-authored the publication.