

# 2015-2016 ANNUAL REPORT

Robert Mondavi Institute for Wine and Food Science UCDAVIS

## From the Executive Director

I AM PLEASED TO SHARE the 2015-2016 Annual Report of the Robert Mondavi Institute for Wine and Food Science at the University of California, Davis, one of the world's leading cross-disciplinary research and teaching

US News and World Report ranked UC Davis 1st in the world for plant and animal sciences, 2<sup>nd</sup> in the world for agricultural sciences and 10<sup>th</sup> among public national universities in its 2017 rankings of the nation's best colleges. In its inaugural ranking (2016) of the nation's best colleges, The Wall Street Journal placed UC Davis 6<sup>th</sup> among public universities.

Programmatic activities at the Robert Mondavi Institute stem from six mission objectives: 1) support and promote academic excellence of the Departments of Food Science & Technology (FST) and Viticulture & Enology (VEN), 2) provide financial support for graduate students, 3) foster industry linkages to UC Davis, 4) provide educational and leadership experiences for students, 5) develop outreach and education programs for the public, and 6) secure the Institute's financial health. I am particularly proud of our financial support for students, which continues to increase year after year.

Last year the Institute awarded more than \$115,000 in scholarships, fellowships, internships and other awards to students in VEN, FST, and Entomology & Nematology—nearly double what was awarded in 2014-2015.

The Institute's two Centers of Excellence, the

Olive Center and Honey and Pollination Center, continue to play key roles in the Institute's support of students, faculty research, serving industry stakeholders through short courses and engaging the public via outreach and education. The Olive Center's research program continues to thrive under the direction of Dr. Selina Wang, who was recently promoted to Adjunct Assistant Professor in FST. The Honey and Pollination Center added the Honey Sensory Experience and World of Honey Tasting Series to its slate of many educational programs.

Our Industry Partnership Program has provided \$200,000 in Fellowships to five graduate students since 2012. Congratulations to Ryan Dowdy, the 2016 Arla Foods Fellow. Pentair recently announced a significantly enhanced partnership with the Institute and will support Graduate Fellows in both Brewing and Dairy Science for 3 years in addition to donating over \$1.2 million in equipment for both research

Although 2015-2016 was a very successful year for the Robert Mondavi Institute, we were greatly saddened by the recent death of Margrit Mondavi. "There is so much beauty in the world, if we look for it, so much" Margrit often said. She brought beauty and grace to many lives at the Robert Mondavi Institute and UC Davis and we will miss her greatly.

#### CLARE HASLER-LEWIS

Executive Director,

Robert Mondavi Institute for Wine and Food Science



Margrit Mondavi in memoriam

Margrit Biever Mondavi, widow to Robert G. Mondavi, died on September 2, 2016 at age 91.

Margrit was Vice President of Cultural Affairs at Robert Mondavi Winery. She joined the winery in 1967, pursuing a life-long interest in uniting wine with fine arts, music and culinary artistry. Under her direction, Robert Mondavi Winery developed cultural and culinary arts programs that are now benchmarks for the wine world. She founded the winery's popular Summer Music Festival in 1969 and in 1984. the Festival of Winter Classical Concert Series. In 1977 Margrit introduced the Great Chefs culinary series. "Like painting and music, wine and food speak to the heart," said Margrit.

Married to Robert Mondayi from 1980 until his passing in 2008, Margrit traveled with him around the world. Upholding the family's philosophy that all the arts contribute to an enhanced quality of life. In 2001, she and Robert donated \$10 million to UC Davis to launch the Robert and Margrit Mondavi Center for the Performing Arts.

Margrit remained an active ambassador for the winery and Napa Valley culture until her death.



#### **ARLA FOODS GRADUATE** STUDENT FELLOWS

Ryan Dowdy was recognized as the 2016 Arla Foods Graduate Fellow in April. Dowdy is a Ph.D. student in the laboratory of Assistant Professor Christopher Simmons, Department of Food Science & Technology. Dowdy's research is focusing on "Microbial Desalination and Membrane Fouling Control for Dairy Processing." He received \$40,000 for one year to support his research. (From Left: Harry Barraza, Arla Foods; Ryan Dowdy; Clare Hasler-Lewis, Executive Director, Robert Mondavi Institute.)

The 2015 Arla Foods Fellow, Fang (Diane) Dou is currently completing her research project on rapid detection of bacteriophages in dairy and cheese processing. Diane is a Ph.D. student in the Department of Food Science & Technology working with Professor Nitin Nitin

www.arla.com

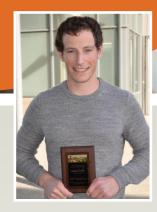
#### **PENTAIR STRENGTHENS** CONNECTION TO UC DAVIS

Pentair, a global water, fluid, thermal management, and equipment protection partner, has been a member of the Industry Partnership Program since 2013. Pentair recently announced they will significantly expand their partnership with the Robert Mondavi Institute. The company has pledged \$240,000 to support one graduate student in dairy food science and one graduate student in brewing science each year for three years. Further, Pentair will provide approximately \$1,200,000 in equipment to support dairy and brewing education and research in the Anheuser-Busch InBev Brewery and the Milk Processing Laboratory at the Robert Mondavi Institute. The Pentair Graduate Fellows in Brewing and Dairy Science will be announced in early 2017.

www.pentair.com

Sixth Annual

**GRADUATE STUDENT** RESEARCH POSTER COMPETITION





#### JOSH COHEN

Josh Cohen, a Ph.D. Student in the Department of Food Science & Technology, received \$1,500 for his poster: "Pilot scale isolation of bioactive oligosaccharides from whey permeate"



#### **GORDON A. WALKER**

Gordon Walker, a Ph.D. Student in the Department of Viticulture & Enology, received \$1,000 for his poster: "Effects of the [GAR+] prion on S. cerevisiae UCD932 fermentation capacity, cell physiology, and metabolism"



Randall Robinson, a Ph.D. Student in the Department of Food Science & Technology, received \$500 for his poster: "A novel method for high-throughput analysis of bioactive oligosaccharides"



#### RANDALL **ROBINSON**



#### NINA KIRMIZ

Nina Kirmiz, a Ph.D. Student in the Department of Viticulture & Enology, received \$500 for her poster: "Insights into human milk oligosaccharide utilization by Bifidobacterium longum subsp. longum SC596 and

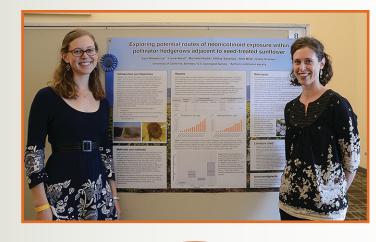


Bifidobacterium breve SC95"



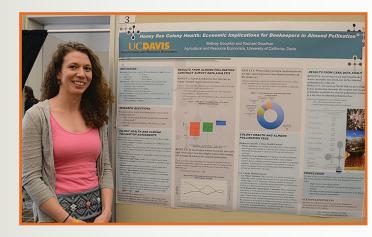
#### YAMILE **MENNAH-GOVELA**

Yamile Mennah-Govela, a Ph.D. Student in the Department of Food Science & Technology, received \$500 for her poster: "Sweet potatoes microstructural changes during in vitro gastric digestion"



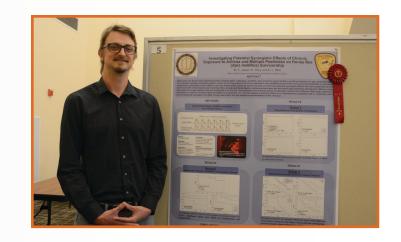


Laura Ward<sup>1</sup> and Sara Winsemius<sup>2</sup>: Exploring potential routes of neonicotinoid exposure within pollinator hedgerows adjacent to seed-treated sunflower • 1 Ph.D. Candidate, Dept. of Environmental Science, Policy & Management, UC Berkeley; <sup>2</sup>Staff Research Associate, UC Berkeley





Brittney Goodrich: Honey bee colony health: economic implications for beekeepers in almond pollination • Ph.D. Candidate, Dept. of Agricultural & Resource Economics, UC Davis



#### 2<sup>nd</sup> Place

W. Cameron Jasper: Investigating potential synergistic effects of chronic exposure to amitraz and multiple pesticides on honey bee (Apis mellifera) survivorship • Ph.D. Candidate, Dept. of Entomology & Nematology, UC Davis





John Mola: Fine-scale population genetics and movement ecology of the yellow-faced bumblebee (Bombus vosnesenskii) • Ph.D. Candidate, Graduate Group in Ecology, UC Davis

2016

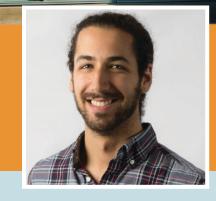


#### **Poster Award** Winners

Graduate students from UC Davis and UC Berkeley participated on May 7, 2016. They were awarded \$1,000, \$750, \$500 and \$250 for first, second, third and fourth place, respectively.

## RECOGNIZING EXCELLENCE IN GRADUATE STUDENT RESEARCH

# 2016 GRADUATE STUDENT TRAVEL AWARDS, SCHOLARSHIPS and internships



#### **ALEXANDER LEVIN**

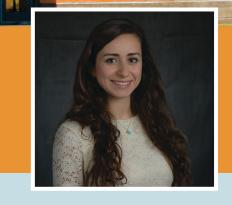
Doctoral Student, Viticulture & Enology **AWARD:** \$1,500 **MEETING:** X International

Symposium on Grapevine Physiology and Biotechnology,

Verona, Italy, June 2016

**ABSTRACT:** The Response of Stomatal Conductance to Vine

Water Status



#### YAMILE MENNAH-GOVELA

Doctoral Student, Biological & Agricultural Engineering **AWARD:** \$750

**MEETING:** Institute of Food

Technologists Annual Meeting (IFT) & Food Expo, Chicago, IL,

July 2016

**ABSTRACT:** Red Beet Structural Changes during in Vitro Gastric

Digestion as Influenced by Processing Method and Sample Size

#### **TIAN TIAN**

Doctoral Student, Food Science & Technology

**AWARD:** \$750

**MEETING:** Institute of Food Technologists Annual Meeting (IFT) & Food Expo, Chicago, IL, July 2016

**ABSTRACT:** Identification and Characterization of Potential Prebiotic Oligosaccharides in Brewed Coffee and Spent Coffee Grounds

#### **TONG XU**

Doctoral Student, Food Science & Technology

**AWARD: \$750** 

**MEETING:** Institute of Food Technologists Annual Meeting (IFT) & Food Expo, Chicago, IL, July 2016

ABSTRACT: Oil Surface and Interfacial Tension as Affected by Composition, Temperature and Time

#### **RANDALL ROBINSON**

Doctoral Student, Viticulture & Enology

**AWARD:** \$500

**MEETING:** 44th International Symposium on High Performance Liquid Phase Separations and Related Techniques, San Francisco, CA, June 2016

**ABSTRACT:** A Novel Method for High-Throughput Analysis of Bioactive Oligosaccharides

#### **JAKE URETSKY**

Doctoral Student, Viticulture & Enology

**AWARD:** \$500

MEETING: 67th Annual ASEV National Conference, Monterey,

CA, June 2016

**ABSTRACT:** Evaluating Grape Root Architecture in a 10114Mgt x 110R Genetic Mapping Population

#### **ANA SKOMAL RECEIVES** \$2,000 BROADENING HORIZONS **SCHOLARSHIP**

Skomal, an undergraduate in the Department of Food Science & Technology, served as Co-Director for the on-campus organization, Chicanos in Health Education. Broadening Horizons is a program dedicated to supporting underrepresented undergraduate students in the Departments of Food Science & Technology, and Viticulture & Enology.



A first year Master's student in the Department of Viticulture & Enology, Ms. Wu earned Bachelor's and Master's degrees in Food Science from McGill University in Montreal, Canada. The Robert Mondavi Institute Award supported her harvest internship with Hans-Jörg Rebholz in Pfalz, Germany.





# Otto Davis Center

at the Robert Mondavi Institute

- The Center welcomed nine undergraduates to the research lab and two Ph.D. candidates from the Department of Food Science & Technology:

  Lauren Crawford, who is fully funded by a California Department of Food & Agriculture (CDFA) Specialty Crop Block Grant, and Juan Polari, a fully-funded Fulbright Scholar from Argentina.
- The Center assisted Frank Zalom, Department of Entomology & Nematology, and Maria Marco and Kyria Boundy-Mills, Department of Food Science & Technology, in the application for two Specialty Crop Block Grants, totaling \$409,574. Both grants were recommended for funding by CDFA, and the Marco/Boundy-Mills grant, "Development of Starter Cultures to Obtain Consistent, High Quality Sicilian-style Olives" was approved by the USDA for \$215,264.
- The Center's fall harvest in the West Davis orchard was the most successful ever, bringing in five tons of olives in one day. Approximately 20 students volunteered with Winters, Calif. harvest contractor Joe Martinez, owner of Martinez Ranches Inc. This was the first year mechanical harvesting equipment was used. Olive varieties harvested included Arbosana, Arbequina, Koroneiki, and Leccino.
- Selina Wang, the Center's research director, was promoted to Adjunct Assistant Professor in the Department of Food Science & Technology. Shirley Li, the Center's assistant director, was promoted to research specialist, a permanent position.
- The Center was featured on the PBS program, *America's Heartland*, in an episode devoted to Olive Oil.



# News Updates

- The Center's report on fraudulent naming and standards for extra virgin olive oil sold in CA received press coverage by the OliveOilTimes in a story titled: Five Years Later, UC Davis Report Still Sends Shockwayes.
- The Center released a travel-size (100 ml) bottle of its Estate Extra Virgin Olive Oil for the first time, now available for purchase (\$7.50) at all UC Davis bookstores. The oil was hand-harvested with student volunteers from the only organic grove at UC Davis.

The Center offered two short courses which attracted attendees from 15 states and 12 countries:

- The Master Milling Certificate Course (October 1-4, 2015), which helps olive oil processors produce better oil more efficiently, was attended by over 70 participants.
- The Sensory Evaluation of Olive Oil Certificate
   Course (June 14-17, 2016) attracted 41 attendees
   who learned from sensory scientist Sue Langstaff
   how to gain expertise in evaluating olive oil.

# Reports & Publications

- Sedej, I, Milczarek, R, Wang, SC et al. "Spray Drying of a Phenolic-Rich Membrane Filtration Fraction of Olive Mill Wastewater: Optimization and Dried Product Quality." Intl. J. Food Science and Technology, Vol. 51(8): 1900–1909, 2016.
- Sedej, I, Milczarek, R, Wang, SC et al. "Membrane-Filtered Olive Mill Wastewater: Quality Assessment of the Dried Phenolic-Rich Fraction." J. Food Science, Vol. 81(4): E889–E896, 2016.
- Olive Oil as Medicine:

  "The Effect on Blood
  Pressure," UC Davis Olive
  Center Publication.

Full reports at:
olivecenter.ucdavis.edu







# HONEY & POLLINATION CENTER at the ROBERT MONDAVI INSTITUTE

MEAD SHORT COURSES November 2015 & February 2016

UC Davis is the only University offering educational short courses for the mead industry. These programs attract participants from around the world. Nearly 70 mead makers at all experience levels attended *Beginners Introduction to Mead Making* on November 13-14, 2015. Attendees had a unique handson experience under the direction of several professional mead makers and UC Davis winemaker, Chik Brenneman. On February 8-11, 2016, the Center held its first *Continuing Mead Making* and *Business of Mead Making* courses. In addition to a full day of sensory science, case studies, and mead tastings, participants visited Z Specialty Food, a Woodland, Calif. honey processing facility and Rabbit's Foot Meadery in Sunnyvale, Calif.

#### **HONEY SENSORY EXPERIENCE** May 2016

This inaugural short course on May 20-22 attracted industry professionals, honey packers and others from across the nation. Participants tasted over 50 honeys from around the world and learned the basics of sensory science and how to discern varietal honey aroma and flavor components.

#### BEE SYMPOSIUM: KEEPING BEES HEALTHY May 2016

Almost 250 attended the second-annual Bee Symposium on May 7, which featured keynote speakers Dennis vanEngelsdorp, a founding member of the Bee Informed Partnership and Yves LeConte, Director of the French National Bee Lab in Avignon, France. Speakers included professors from UC Berkeley, UC Riverside, and UC Davis.



#### FEAST: A CELEBRATION OF MEAD & HONEY

February 2016

The Center's yearly fundraising dinner celebrated the importance of pollination to the bounty on our tables. Annotated menus explained the different pollinators responsible for the extraordinary meal. At the close of the evening, nationally renowned mead maker, Ken Schramm, of Schramm's Mead, Ferndale, Mich., led a unique tasting in partnership with Darrell Corti, owner of Corti Brothers Gourmet Food and Fine Wine Specialists in Sacramento.

#### WORLD OF HONEY TASTING SERIES January & April 2016

This new series introduced participants to honeys from around the globe as well as entomology faculty at UC Davis. On January 27, the tasting featured honeys from California (orange blossom, coriander, avocado) and a discussion on bees in crisis with Assistant Professor Elina Niño, California Extension Apiculturist. On April 5, the tasting featured several international honeys: chestnut (France), viper's bugloss (New Zealand), coffee blossom (Guatemala) and Stingless Bee Honey (Brazil). Robbin Thorp, Distinguished Professor Emeritus, spoke on native bees from around the world.

# CENTER WELCOMES NEAL WILLIAMS AS NEW FACULTY CO-DIRECTOR

Williams is an Associate Professor in the Department of Entomology & Nematology. He replaced department chair Michael Parrella who left the university in December to become Dean of the College of Agricultural & Life Sciences at the University of Idaho. Williams' research program ranges from basic bee biology and pollination to applied research on native bee conservation and crop pollination.

# CENTER SUPPORTERS

#### \$50,000

Springcreek
 Foundation

#### \$2,500

Natural American
 Foods

#### \$1,000

- American
   Beekeeping
   Federation
- Bee Progressive
- Z Specialty Food

#### \$500

- Moonlight Meadery
- O Olive Oil
- Sonoma Syrup Co.

#### \$250

- First Northern Bank
- Golden Coast Mead



#### MICHAEL MONDAVI

is widely credited with helping to establish and build the Napa Valley wine industry. He has been named Industry Executive of the Year by The Market Watch Leaders, and he received the "Who's Who of Food & Beverage"

award by the James Beard Foundation. In 1995 he was awarded the World of Food and Wine Lifetime Achievement Award, and in 2015, Wine Enthusiast Magazine named Michael their 2015 "Person of the Year."



#### **ROB MONDAVI JR.**

joined the Robert Mondavi Corporation in 2000. After three years in sales, he became the Director of Marketing, spearheading the Corporation's trade marketing programs. In 2004 Rob was appointed President of Winemaking

for Michael Mondavi Family Estate and, today, oversees all grape growing and winemaking for wines produced under the M, Animo and Emblem brands.





May 14, 2016

The Winkler Dinner honors the late Albert J. Winkler, chair of the Department of Viticulture & Enology from 1935 to 1957. Proceeds from the annual dinner support the activities of DEVO, the UC Davis Department of Enology & Viticulture student organization, including providing international scholarships. The 2016 dinner, hosted in the Olive Grove at the Robert Mondavi Institute, consisted of five courses prepared by individual chefs paired with wines made by UC Davis alumni, and accompanied by auctions and live music. It was the most successful event to date raising \$50,000 for DEVO.



supporting Chicano/Latino students.

Photo: Mike Tentis



mondaviarts.org/uncorked/



# of the Robert Mondavi Institute for Wine and Food Science

Membership in our Friends of the Robert Mondavi Institute program funds scholarships, travel grants, and research awards for outstanding students in the Departments of Viticulture & Enology, and Food Science & Technology.

Our Friends Support:

**Graduate Student Travel Grants Graduate Student Research Poster** Competition

Robert Mondavi Institute International Harvest Internship Award

Food Science Undergraduate Broadening Horizons Scholarship

DEVO, the student Davis Enology & Viticulture Organization

Tori Blommer-O'Malley Barbara Fingerut Karl Gerdes & Pamela Rohrich Dana Hawkins Mary Horton Kim Lamb Bill & Linda Schmidt Jina Lopez Tom & Rebecca Ramme David Rocke & Janine Mozee Susan & Robert Silva

Maynard Skinner & Cristy Jensen

Laura & Murry Baria Robert & Janice Boynton John & Christine Bruhn Seth Brunner & Linda Clevenger Grant & Lois Chappell Paul Coletta Rafael De La Fuente Judy Doherty Clay Gregory Andy Jones & Kate Duren Bill & Laura Lacy Don Roth & Jolán Friedhoff Chuck & Nancy Shulock Dan Sperling Nancy & Robert Tate

Jack Williams

Reserve

Jim & Erinne Aboytes Wayne & Jacque Bartholomew Jeremy Benson

Bancroft-Clair Foundation, Inc. Randy Cobb & Kathie Benko

Darrell Corti

Kay Gist

Al & Margaret Giuliani

Jose Goya

Jane Killebrew

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Roger White

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Anonymous

Clare Hasler-Lewis & Cameron Lewis

Cricurean Douglas & Julianne Muhleman

Donors To the Endowment

> Victor C. Chu Estate Paul & Sandra Montrone Douglas & Julianne Muhleman College of Agricultural & Environmental Sciences

## Board of Executives

Robert Boynton is an Adjunct Professor of Applied Economics and Management at Cornell University and the retired Senior Jackson Family Wines. Vice President of Marketing and Sales at Leprino Foods Company.

Paul Coletta is the CEO of Urban Remedy. He previously served as the chief marketing officer for Jamba Juice, Pinkberry and POM Wonderful.

Darrell Corti is president of Corti Brothers, gourmet food and fine wine merchants in Sacramento, Calif.

Al Giuliani (Chair) is the retired President and Chief Operating Officer of Ready Pac Foods. He previously worked for and Quaker.

Clay Gregory is Chief Executive Officer of Visit Napa Valley and former President of

Jane Killebrew is the Global Vice-President of Brewing and Quality at Anheuser-Busch/ InBev.

Margaret Lawson is past-President (2004-2005) of the Institute of Food Technologists (IFT) and the recipient of IFT's 2010 Calvert L. Willey Distinguished Service Award.

Harold McGee is an author, New York Times columnist, and recipient of the prestigious "Johannes van Dam Prize," awarded to him in 2014 by the University of Amsterdam. His Mars, US Foods, United Vintners book On Food and Cooking: the Lore of the Kitchen is a standard reference in culinary schools.

Doug (Vice Chair) and Juli Muhleman are long-time supporters of UC Davis and the institute. Doug currently chairs the Brewing Science Strategy Group within the Department of Food Science and Technology.

Glenn Nedwin is the CEO and President of Second Genome, Inc., and CEO and President of TripleDNA Consulting, LLC.

Rob Twyman is the Regional President for Whole Foods Market, Northern California and Reno.

Jean-Michel Valette is Chair of the Board of Directors at Vinfolio, Sleep Number by Select Comfort: Lead Director, Boston Beer Company.

Glenn Workman is the Vice President and General Manager of the Robert Monda



**Jeremy Benson** is president of Benson Marketing Group, a leading marketing agency providing PR, social media, trade promotion, direct marketing and brand consulting services to wine and spirits marketers around the globe. Benson is the



**Barb Stuckey** is President and Chief Innovation Officer at Mattson, the foods and beverages for chain restaurant and retail foods industries. Her book,

BOARD OF EXECUTIVES WELCOMES TWO NEW MEMBERS

### Honorary Board

A distinguished group of thought-leaders whose expertise and industry leadership represent, inspire, and honor the Institute's vision: Enhancing our quality of life through wine, brewing, and food sciences — for future generations.

August A. Busch III Francis Ford Coppola Darrell Corti

**Agustin Huneeus** Fritz Maytag Margrit Mondavi Ann and Gordon Getty Michael Mondavi

Tim Mondavi **Paul Montrone Wolfgang Puck** Martin Yan

#### **Executive Committee**

#### David Block (Chair)

Ernest Gallo Endowed Chair and Professor and Chair, Department of Viticulture & Enology

#### **Charlotte Biltekoff**

Associate professor, Departments of American Studies, and Food

#### Linda Bisson

Professor, Department of Viticulture & Enology

**Linda Harris (Vice-Chair)** 

Specialist in Cooperative Extension and Chair, Department of Food Science & Technology

#### Julian Alston

Distinguished Professor, Department of Agricultural & Resource Economics

#### Maria Marco

Associate Professor, Department of Food Science & Technology Sharon Shoemaker

**Executive Director**, California Institute of Food & Agricultural Research

#### Francene Steinberg

Professor and Chair, Department of Nutrition

#### Ed Lewis

Professor, Department of Entomology & Nematology, and Associate Dean for Agricultural Sciences, College of Agricultural & Environmental Sciences



#### BOARD OF EXECUTIVES **STUDENT** REPRESENTATIVES

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President, Food Science Graduate Student Association, Ph.D. Student. Department of Food Science & Technology

#### Jenna Huynh

President, Food Tech Club

#### Rebecca Jain

President, DEVO

#### Laura Metrulas

Brewing Club, M.A.





Robert Mondavi Institute for Wine and Food Science

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Honey and Pollination Center at the Robert Mondavi Institute

College of Agricultural and Environmental Sciences

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Enhancing our quality of life through wine, brewing and food sciences

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