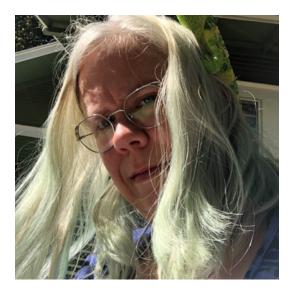
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# March 2023





Dr. Heather Hallen-Adams was featured in a recent IANR Faculty Spotlight. Dr. Hallen-Adams was interviewed about her work at the Department and personal interests. You can read the interview at: https://ianrnews.unl.edu/faculty-spotlight-heather-hallen-adams



Dr. Andreia Bianchini sharing about challenges facing the US in regards to food security, food defense, and other vulnerabilities in its food processing system at a recent National Strategic Research Institute/Agricultural Research Division Workshop.

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place award for his oral presentation (PhD category) at the annual meeting for the Missouri Valley Branch of the American Society for Microbiology on March 11 in Manhattan, KS.

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The 2023 UNL Battle of the Food Scientists contest



With four teams competing, a kitchen filled with students, faculty, alumni, and journalists, and finishing minutes ahead of the city's biggest snowstorm of the season, you could feel the excitement and energy at this year's contest!

The first round challenged teams to create a high protein, gluten-free cookie in 45 minutes or less. The sophomore Food Science and Technology majors, Janine Merkle and Adam Lierz had the best cookie according to the judges. A team of senior Food Science and Technology majors, Madelyn Jaskae, Olivia Kinne, and Katelynn Teh, came in second with their cookie. The rankings from round #1 provided the order for teams to select ingredients for Round #2.

In the second round, teams had 50 minutes to plan and prepare a dessert that included cricket powder and a



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# **Special Recognition**

We would like to thank everyone who attended the event, from the student contestants, the judges, faculty and staff, local journalists, and especially the planning committee. With a winter storm approaching, we are grateful for everyone who showed up as the snow held out.

Additional news coverage can be found from **Nebraska Today** and **The Daily Nebraskan**. A photo gallery with

pulled a big win with their Indianinspired dish that wowed the judges for its unique flavors. Team members on the first-place team included graduate students in the Food Science and Technology Department: **Prabhashis Bose**, **Sedoten Ogun**, **Urvinder Kaur Sardarni**, and **Sayantini Paul**. The winners each received a trophy, \$20 gift card, and backpacks from ConAgra.

Runners-up for the event were also graduate students. David Gomez Quintero, Armando Lerma Fuentes, Carmen Perez-Donado, and Kevin Lievano pulled out a second-place victory with their crick-crick bars. Students received a \$10 gift card and water bottles from ConAgra.

### **Photos**

(Left) 1st Place From L-R: Nicolle Kallhoff (ConAgra), Sedoten Ogun, Prabhashis Bose, Sayantini Paul, Urvinder Kaur Sardarni, Ava Petersen (Ardent Mills), and Dr. Terry Howell (UNL FPC)

(Right) Runner-Up From L-R: Nicolle Kallhoff (ConAgra), Armando Lerma Fuentes, Kevin Lievano, Carmen Perez-Donado, David Gomez Quintero, Ava Petersen (Ardent Mills), and Dr. Terry Howell (UNL FPC)

## **Outreach and Recruitment Activities**



# 4-H Youth from Central Nebraska – The department hosted over 30 high school youth and their teachers/parents on March 1<sup>st</sup>. The group started with a tour of the Scarlet Hotel and learned about the benefits of working in Hospitality Management. Then the group came to the Food Innovation Center for a Sensory Science activity led by Julie Reiling. Following a building tour and short



Spring Break Camp – "The Rise of the Dough"

Drs. Jayne Stratton and Andreia
Bianchini, along with graduate students
Karen Nieto Flores, Aryany Pena, and
Juan Villegas, provided local middle
and high school students with a oneday food science camp. In the Star
Wars-themed, pizza-making camp,
students learned all about wheat,
milling and its properties in bread

Science of Pizza lab. Their visit ended with ice cream and information about Food Science as a future career. **Dr.**Jayne Stratton and **Dr. Andreia**Bianchini provided the lab activities, and Sara Roberts helped coordinate the visit.

OLLI Baking Class – Drs. Andreia Bianchini and Jayne Stratton led a group of 30 OLLI participants in an activity entitled "How the Cookie Crumbles: A Day in the Life of a Food Scientist" on Feb. 27th. In this activity participants had the opportunity to hear about all the steps and challenges involved in developing new food products, including those associated with consumers expectations for healthier and innovative foods. As part of this learning session, participants were faced with the opportunity of formulating a product that needs to meet certain consumer needs, without compromising product flavor, texture and color.

LPS Middle School Science Fair – The Food Science and Technology
Department hosted a table at the LPS
Science Fair held at the Lancaster
Events Center. Hundreds of students
with their parents and siblings
attended. The students enjoyed tasting
spice drops and making gummy
worms. Liyun Zhang, Alisa Holst,
Chloe Calhoun, and Sara Roberts
represented the department at the
table.

canning/preservation of tomatoes (sauce) and cheese making through acidification. Students' knowledge of the Star Wars saga was tested throughout the day with an engaging trivia, and students ended the camp with preparing their own pizza creation. This camp was sponsored by Nebraska EPSCoR and was free for participants.

Southeast Community College
Biotechnology II class visit – Students
taking a Biotech II course at SCC made
a visit to FIC 3<sup>rd</sup> floor this past month.
The group visited the Benson and
Auchtung labs, and met with Nate
Korth, Ph.D. and Dr. Jennifer Auchtung
to learn about their research.

Central Nebraska Science Fair – Sara Roberts traveled to Hastings, NE and provided interactive sessions for the students at the regional science fair. Approximately 115 middle and high students came to the science fair and participated in the sessions.

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# Jun 9

FPC 40th Anniversary Celebration

### June 3

**Recipe to Reality Seminar** 

## **Recent Publications**

Nwaizu, C. C., Zhang, Q., Iluno, (2022). 3D Pore Structure Characterization of Stored Grain Bed. *Applied Engineering in Agriculture*, *38*(6), 941–950. https://doi.org/10.13031/aea.15133.

Sarkar, Dipon, Ian Hunt, Cameron Macdonald, Bing Wang, John P. Bowman, and Mark L. Tamplin. "Modelling growth of Bacillus cereus in paneer by one-step parameter estimation." Food Microbiology (2023): 104231.

### **Recent Awards**

Andreia Bianchini, Discovering Food Science: Exploring Dairy Products the Milky Way, NSF-Nebraska-EPSCoR, \$8,143.

Jaber Ghorbani, 2023 Consumer Food Safety Education Conference (CFSEC), \$900.

Emerson David Nolasco Guzman, Phi Tau Sigma Student Achievement Scholarship, \$1,000.

Yanbin Yin,Carbohydrate Enzyme Gene Clusters in Human Gut Microbiome, DHHS-Nat Inst Gen Medical Sci, \$271,908.

# **Jobs**

# **Quality Assurance Technician - Universal Pure**

- Quality Assurance Technician Duties and Responsibilities:
- Provide daily monitoring of facility and personnel to ensure compliance to the food safety system of the facility; perform formal audit on GMPs.
- Ensure training of facility personnel on GMPs, Risk Preventive Controls, Hazard Analysis, pre-requisite programs, and other applicable food safety system elements as required
- Collect and analyze product samples as required, as well as document information derived from analysis.

# Apply here

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department at various recruitment events on campus, assist with outreach events across the state such as the Nebraska State Fair, Applejack Festival, and FFA Career programs, and take on leadership roles in the department including coordinating the Battle of the Food Scientists contest. The Student Ambassador position is a two-year commitment and comes with a \$1,000 annual scholarship.

Apply here

For more news please visit: http://foodscience.unl.edu/

Have something you would like featured in the Monthly Newsletter? Send it to **foodscinews@unl.edu** 







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