Nanovax 2025: Next Generation Countermeasures for Emerging and Re-Emerging Diseases

April 2-3, 2025, The Gateway Hotel & Conference Center
Ames, Iowa

Call for Poster Abstracts
Submission Deadline: February 1, 2025, 5 PM Central Time

The global economy and trade of ecosystem services drive how humans and animals are interlinked, often dictating their health and resilience. Large-scale agricultural systems are necessary for food and energy, but current management practices lead to respiratory and chemical toxin exposure, and concentrations of animals and people. Given the dynamic nature of global pathogenic transmissibility, strains of respiratory diseases such as influenza, that may have once been confined endemically or partially controlled by vaccination within animals and people now have the capability to swathe entire regions and continents, resulting in pandemics. SARS-CoV-2 shined a light on weaknesses within public health but proved the ingenuity of biomedical research to produce, evaluate, and authorize a vaccine in under a year. The recent emergence of avian H5N1 within the livestock industry will be the next grand challenge to understand the biology of the disease and to develop existing and novel treatments to ensure global food security and to protect human populations.

The event will bring together experts from all corners of vaccine and therapeutic research to advance promising and robust next-generation nanovaccines and nanotherapeutics through regulatory approvals and to clinical trials. The program will emphasize a transdisciplinary approach to transform the design and manufacturing of nanovaccines and nanotherapeutics that integrates nanotechnology, materials science, immunology, oncology, neuroscience, microbiology, clinical science, and social science.

The program committee also believes that innovative research is centered on early career development and training to foster the next generation of scientists. Programming will emphasize early career participation, mentorship, and high-impact research opportunities.

Eligibility
The general poster session is open to all attendees. Graduate students are welcome to submit posters to the Graduate Student Poster contest to be held during the symposium.

Dates
Posters will be displayed during the agenda proceedings at the venue. Poster removal is allowed following the last break in the symposium proceedings.

Subject Areas
- Emerging Disease Threats
- Human Health
- Animal Health
- Vaccine Manufacturing, Distribution, Deployment & Regulation

Meeting Attendance
Poster presenters are required to register and attend the conference.

Poster Displays
Posters will be limited to no larger than 48 inches by 48 inches. Poster authors are responsible for materials to attach posters to the display board. Velcro will NOT work with the display boards. Thumbtacks or staples work best. Tape or sticky adhesive material (including HandiTack), which will rip the poster board covering, will not be permitted.

Student Poster Contest
Undergraduate and Graduate Students are eligible to participate in a student poster contest during the symposium. During Day 1, a judging panel will visit posters at a predetermined time to hear a lightning presentation of the poster from the student and complete an evaluation card. The top three posters will be recognized during the Day Two lunch during the program. Posters will be evaluated based on organization, effective communication, and translational research impact.

1st Place: $125
2nd Place: $100
3rd Place: $75

To participate in the contest, please opt-in using the prompts in the poster submission process outlined below.

Communication

To receive notifications and updates, please ensure emails from hbates@iastate.edu and messages from Microsoft Conference Management Toolkit are not blocked or routed to your inbox's Spam Folder.

Please spell out all acronyms and abbreviations at least once in the submitted text.

Travel Scholarship

Early career and attendees will be eligible to receive a travel reimbursement award. Interested applicants will be asked to complete an application and submit a statement of interest to the Nanovax Scientific Program Committee (SPC). The recipients of up to five travel scholarships will be selected by the SPC based on the quality of the application and its relevance to nanovaccine and nanomedicine research. More information can be found here: https://nanovaccine.iastate.edu/nanovax/.

Abstract Submission

Abstracts will be submitted through Microsoft Conference Management Toolkit. No submissions will be accepted via email to organizers. Please read the below instructions for completing the submission process. Incomplete submissions or submissions sent to staff or program committee members will be eliminated from consideration.

1. Go to https://cmt3.research.microsoft.com/NANOVAX2025
2. Select “Create Account” and fill out the requested information to register
3. Once logged in, follow the prompts below to create your submission
4. Select “Create New Submission”
5. Select “NANOVAX2025 Posters” for presentation submission
6. Enter the title and abstract
7. Select “Add” under the Authors section to add additional co-presenters**,** if any
8. Answer additional questions
9. Select submit

Poster Contest Evaluation Criteria

- **Organization** (5 pts): The thoughtful arrangement of content into a deliberate order that allows the audience to follow the logic of the presentation of ideas.
- **Effective Communication** (10 pts): The presentation of content that is accurate, clear, complete, concise, and relatable to the audience.
- **Translational Impact** (15 pts): The poster emphasizes the effect the research has beyond the academic community, such as the transformative impact it may have on animal and human use.

About the Nanovaccine Institute

The Nanovaccine Institute was founded at Iowa State University, building upon core partnerships with the University of Iowa and the University of Nebraska Medical Center, and has connections with public institutions and industries across the United States through a consortium of members. Our purpose is to use nano-based technologies to tackle emergent diseases that have a devastating impact on human and animal health. Learn more at https://nanovaccine.iastate.edu/.

Event Contact: Hanna Bates, Research Administrator III, Nanovaccine Institute, hbates@iastate.edu