



## Nanovax 2025 Detailed Agenda

April 2, 2025	General Session Room	Breakout Room 1	Breakout Room 2	Breakout Room 3
8:00	<b>Registration Opens</b>			
9:15	<b>Opening Remarks</b>			
9:45	<b>Keynote Presentation: An udderly unexpected outbreak of Bovine Influenza</b> <i>Richard Webby, St. Jude Children's Research Hospital</i>			
10:45	<b>Exhibit and Poster Hall Break</b>			
11:15	<b>Networking and Mentorship Session</b>			
12:00	<b>Lunch</b>			
	<b>Human Health Thematic Track</b>	<b>Animal Health Thematic Track</b>	<b>Emerging Disease Threats Thematic Track</b>	<b>Manufacturing, Development, Distribution Thematic Track</b>
1:00	<b>Regular Presentation: Neuroprotective role of colostrum extracellular vesicles in Parkinson's Disease</b> <i>Howard Gendelman, University of Nebraska Medical Center</i>	<b>Regular Presentation: <i>Title to be Determined</i></b> <i>Jodi McGill, Iowa State University</i>	<b>Regular Presentation: The role of AI in conjunction with structural biology and rapid imaging to expedite disease surveillance and intervention in livestock</b> <i>Ratul Chowdhury, Iowa State University</i>	<b>Regular Presentation: Why is all large commercial scale LNP production done in confined jet mixers (flash nanoprecipitation (FNP))?</b> <i>Robert Prud'homme, Princeton University</i>
1:35	<b>Lightning Talk: Plasmodium parasitemia suppresses protective efficacy of the Ebola virus vaccine</b> <i>Jonah Elliff, University of Iowa</i>	<b>Lightning Talk: Human dimensions of livestock disease management: data from the Iowa Farm and Rural Life Poll</b> <i>Hanna Bates, Iowa State University</i>	<b>Lightning Talk: An adjuvanted DNA lipid nanoparticle vaccine against Avian Infectious Bronchitis virus</b> <i>Fakry Ramadan, University of Wisconsin-Madison</i>	<b>Lightning Talk: <i>To be Determined</i></b>



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1:55	<p><b>Lightning Talk: Promising targeted therapy for Fuchs endothelial corneal dystrophy (FECD) assisted with cRGD conjugated ubiquinol loaded nanoparticles</b> <i>Apurva Dusane, University of Iowa</i></p>	<p><b>Lightning Talk: <i>To be Determined</i></b></p>	<p><b>Lightning Talk: Detection of SARS-CoV-2 virus in saliva using a flow-through packed bed microscale surface ion-conduction sensor</b> <i>Sanduni Devasinghe, Iowa State University</i></p>	<p><b>Lightning Talk: Human SIgA functionalized nanoparticles as drug/vaccine delivery vehicles show superiority of delivery efficiency in in-vivo test platform</b> <i>Tianjian Tong, Iowa State University</i></p>
2:15	<p><b>Lightning Talk: Innovative low-cost hydrogels from polymeric nanocarriers containing gallium nitrate for enhanced Leishmaniasis treatment</b> <i>Victor De Albuquerque Wanderley Sales, Iowa State University</i></p>	<p><b>Lightning Talk: Partial spillover of personal COVID-19 vaccination decisions onto cattle vaccination practices: Evidence from a survey of South Dakota beef producers</b> <i>Filip Viskupic, Iowa State University</i></p>	<p><b>Lightning Talk: Evaluating the efficacy of an Influenza H5N1 nanoparticle based vaccine in inducing protective immune responses</b> <i>Payton Kahl, University of Iowa</i></p>	<p><b>Lightning Talk: H5N1 impacting the farm animal sector and how to leverage next generation vaccine technologies to deploy in response</b> <i>Lucas Huntimer, Genvax Technologies</i></p>
2:30	<b>Exhibit and Poster Hall Break</b>			
3:00	<b>Off-Site Facility Tours</b> <b>Option 1:</b> USDA National Animal Disease Center <b>Option 2:</b> Office of Biotechnology's Core Facilities at Iowa State University			
5:30	<b>Evening Networking Reception at the ISU Research Park</b> Co-hosted by the Nanovaccine Institute and ISU Research Park <i>Appetizers and craft soda drinks provided.</i>			



## Nanovax 2025 Detailed Agenda

April 3, 2025	General Session Room	Breakout Room 1	Breakout Room 2
8:00	<b>Welcome and Announcements</b>		
8:15	<b>Keynote Presentation</b> <i>Amy Baker, USDA National Animal Disease Center</i>		
	<b>Human Health Thematic Track</b>	<b>Emerging Disease Threats Thematic Track</b>	<b>Manufacturing, Development, Distribution Thematic Track</b>
9:20	<b>Lightning Talk: High-resolution in vitro tumor microenvironments constructed using DNA-directed patterning</b> <i>Molly Kozminsky, Iowa State University</i>	<b>Regular Talk: Novel nanovaccines against emerging isolates of Avian Influenza</b> <i>Adel Talaat, University of Wisconsin Madison</i>	<b>Regular Talk: Robust prediction of enzyme variant kinetics with RealKcat</b> <i>Karuna Sajeevan, Iowa State University</i>
9:35	<b>Lightning Talk: Using Polycaprolactone (PCL) Scaffold as a tool to investigate immunosuppression in diseases</b> <i>Yuwei Zhang, Iowa State University</i>		
9:50	<b>Lightning: Multiplexed tracking of immune response to combination immunotherapy with surface-enhanced Raman spectroscopy (SERS) using gold nanostars</b> <i>Siddhant Kothadiya, Iowa State University</i>	<b>Lightning Talk: Surface charge-based ion conduction sensor for bacterial pathogen detection and antimicrobial resistance testing</b> <i>Beatrise Berzina, Iowa State University</i>	<b>Lightning Talk: Antibiotic-loaded polyanhydride nanoparticles delivery, within intracellular compartments of macrophages infected with Brucella spp. and Sinorhizobium meliloti, improve drug delivery, dosage, efficacy, and safety</b> <i>Paul Lueth, Iowa State University</i>
10:05	<b>Lightning: The paradox of gold-liposome nanoparticle hybrids: the location of gold drives cellular behavior</b> <i>Vandhana Kandavelkumar, Iowa State University</i>	<b>Lightning Talk: Equine Influenza antigen-based nanovaccine protects mice from homologous and heterosubtypic virus challenge</b> <i>Alaric Siddoway, Iowa State University</i>	<b>Lightning Talk: To Be Determined</b>



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10:20	<b>Exhibit and Poster Hall Break</b>	
11:00	<b>Workshop: “Win-Win” R&amp;D Collaborations with the U.S. Government</b> <i>Jeremiah Kelly, Venable LLP</i>	
12:00	<b>Keynote Presentation and Brown Bag Lunch</b>	
1:00	<b>Closing Remarks and Poster Award Ceremony</b>	