



**NANOVACCINE
INSTITUTE**

NANOVAX NEWS

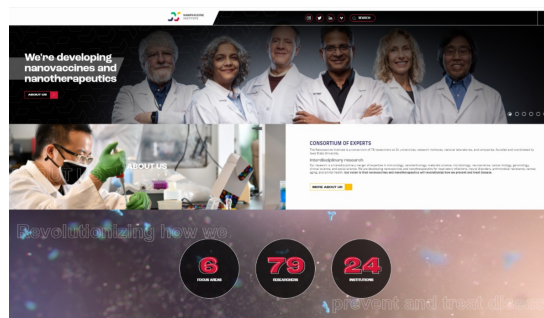
Nanovaccine Institute newsletter, Volume 6: Spring 2022



The Nanovaccine Institute Launches New Website

The Nanovaccine Institute, housed at Iowa State University, is proud to announce a new website published in May 2022. The new website will offer a modern layout with easy navigation and useful tools for the public and researchers to connect with Nanovaccine Institute partners. This website launch, among other efforts, is one of many steps to deliver translational research in immunotherapy technologies.

We have the potential to have a meaningful impact on diseases that cause significant morbidity and mortality on a global scale,” says Dr. Balaji Narasimhan, Director of the Nanovaccine Institute. “Having a transdisciplinary team to tackle these issues and to establish effective collaborations and outreach is essential.”



[Read more here](#)

Technology Transfer News

Mike Roof

Chief Technology Officer
Vaccines & Immunotherapeutics platform
Iowa State University

The Value of Strategic Partnerships



For those conducting research, collaboration and funding are fundamental for success. Having to start and stop efforts for the sake of grants and funding can be an enormous challenge. For this reason, having STRATEGIC PARTNERSHIPS with key collaborators can greatly increase the efficiency and quality of R&D efforts. Iowa State University has recently signed a multi-year strategic partnership with [Merck Animal Health](#) focused on broad and diverse solutions to support the animal health industry. The value of this partnership includes shared goals and objectives, continuous communication and monitoring of efforts, and seamless project starts and transitions. We can move away from the project-by-project funding and now collaborate on a higher and more innovative level! The effort to date involves projects with the Nanovaccine Institute, ISU Veterinary Medicine, ISU Engineering, ISU Library, and ISU VDL. Additional

projects and efforts start in a seamless, organic way as Merck and ISU scientists collaborate daily. We believe this is the model of the future for university-industry collaborations and are extremely grateful for the partnership with Merck. In addition to the research aspects, Merck has also recently contributed \$250,000 to the new Veterinary Diagnostic Lab project and is a leading commercial donor to this important project.

CYVAX is LIVE!

There is a tremendous need for wet lab space that is cost effective and focused on commercial development. This space is often expensive and limits the growth and expansion of our startup companies. In a partnership between the ISU Vice President of Research, ISU Veterinary Medicine, and ISU Research Park, we have created and opened the CYVAX laboratory. The primary objective of the lab includes:

- Wet lab space for ISU faculty to conduct USDA compliant activities and support expedited technology transfer and licensure of technology
- Startup space to focus on manufacturing scale up and potency development including the production of important clinical material and master seeds
- Landing spot for new companies who want to benefit from the Ames/ISU/Iowa ecosystem

This is a NOT-FOR-PROFIT site that is a multi-tenant user facility to allow fast, easy, and cost-effective access to a functional laboratory and benefit from the ISU/Ames ecosystem. The facility has over \$150,000 in base equipment available for use and can serve four tenants or companies at a time. We currently have two companies on site and several others considering us for their lab.

If you know of a project that would benefit from USDA compliant activities relative to master seed production, working seeds, bio-process/scale up, analytical method development, and the production of clinical materials for USDA related activities, contact [Mike Roof](#) to learn more.

Researcher Spotlight



**NANOVACCINE
INSTITUTE**

Dr. Rizia Bardhan



Associate Professor
Chemical & Biological Engineering
Iowa State University



Get to know work conducted by Dr. Rizia Bardhan, Associate Professor in Chemical & Biological Engineering at Iowa State University.

Click the image to watch the video!

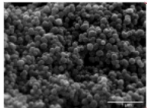
Quoted

“Our job is to try to stop this cycle of transmission,” Talaat says. “Because if you stop the cycle of transmission you will be able to basically stop the mutation and stop the replication of the virus.”

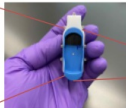
*Adel Talaat, a professor of microbiology at the University of Wisconsin-Madison and Nanovaccine Institute Member, **was interviewed by Vox** in May 2022 regarding the current avian flu outbreak.*

News

Nanovaccines: A Breakthrough in Healthcare



Balaji Narasimhan
Department of Chemical
and Biological Engineering



Kevin Legge
Department of
Pathology



Michael Roof
CTO, Vaccines and
Immunotherapeutics



@nanovax

Nanovaccines: A Breakthrough in Healthcare

Sponsored content for Iowa Economic Development Authority

Over the last twenty years, humanity already has faced numerous pandemics. Increases in global travel, trade and an overdependence on antibiotics pose threats that are surpassing control measures, with more than 800 known pathogens having crossed species barriers so far. These convergent factors have created a perfect storm that presents a formidable challenge to healthcare systems worldwide. In response, Iowa-based scientists are spearheading advancements in nanotechnology, immunology and data science to create next generation countermeasures in the fight against infectious diseases.

[Watch the webinar](#)



Mazen raises \$11m Series A from AgFunder, Fall Line, others to make animal ag safer, cheaper

While recent headlines have focused on the rising costs of crop-based agriculture- the impact of the Russian invasion of Ukraine on fertilizer prices as an example — the macroeconomic situation of severe inflation and the long-lasting impacts of Covid-19, are impacting other parts of the industry too including livestock farming.

[Read more](#)

**Aliasger Salem named as new associate vice president
for research at the University of Iowa**



Vice President for Research Marty Scholtz has selected Kristy Nabhan-Warren and Aliasger Salem as the associate vice presidents for research. They will begin their new part-time roles on July 1.

"I am looking forward to Professor Nabhan-Warren and Professor Salem joining the senior leadership team in the Office of the Vice President for Research (OVPR)," said Scholtz. "They each bring a unique blend of skills to the job, including a strong record of campus leadership, excellence in research and scholarship, and a commitment public engagement with audiences outside of academia. We are lucky to have them join our team."

[Read more](#)



Anand Recognized by Iowa State University at Annual University Awards

Robbyn Anand, associate professor and Carlyle G. Caldwell Endowed Chair in Chemistry, Iowa State University was awarded **the Achievement in Intellectual Property** by Iowa State University.

[Read more](#)



Thomas Friedrich awarded the Kellett Mid-Career Award at the University of Wisconsin-Madison

Friedrich is one of 11 awarded with Kellett Mid-Career Awards to support those promoted to tenured positions seven to 20 years ago and who have made key research contributions in their fields. The award, named for the late William R. Kellett, a former president of the WARF board of trustees and president of Kimberly-Clark Corporation, provides support and encouragement to faculty at a critical stage of their careers and comes with \$75,000 to be spent over five years.

[Read more](#)



FFAR Awards Grant to Genvax Technologies to Develop African Swine Fever Vaccine

African Swine Fever (ASF) is a highly contagious virus that causes 100 percent mortality in swine and for which there is no commercially available vaccine. While ASF has not yet occurred in the US, an outbreak would cause significant economic harm and could impact food availability.

The Foundation for Food & Agriculture Research awarded a \$145,000 grant to Genvax Technologies to develop a self-amplifying messenger RNA (saRNA) vaccine for African Swine Fever in collaboration with the United States Department of Agriculture-Agricultural Research Services- Plum Island Animal Disease Center (USDA-ARS-PIADC). Matching funds were provided by Genvax Technologies for a total \$290,000 investment in innovative ASF vaccine

research.

[Read more](#)

Nanovaccine Institute Updates

Welcome New Nanovaccine Institute Staff Member



Hanna Bates
Research Administrator
Post Award and Science Communication

We are pleased to announce that Hanna Bates has joined the Nanovaccine Institute staff as a Research Administrator, specializing in post-award grants management, financial management, and communications. Bates has been at Iowa State University for the previous six years, serving as a research administrator, conference coordinator, and science communicator for other Iowa State University federally-based programs. Her background includes a BA in Anthropology with Honors at the University of Iowa, an MS in Sociology and Sustainable Agriculture from Iowa State University, and she is now working on an MBA at the University of Iowa.

You can reach Hanna at hbates@iastate.edu.

[Visit our website](#)



Please send any updates for social media, the website, or the next edition of Nanovax News to hbates@iastate.edu

Nanovaccine Institute, Iowa State University | 5001 Advanced Teaching & Research Building,
2213 Pammel Drive, Ames, IA 50011

[Unsubscribe](#) joelsev@iastate.edu

[Update Profile](#) | [Constant Contact Data](#)
[Notice](#)

Sent by nanovaccine@iastate.edu powered by



Try email marketing for free today!