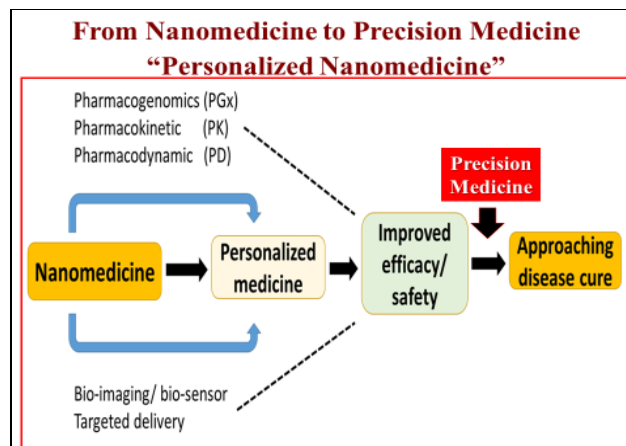


# The Road from Nanomedicine to Precision Medicine

16<sup>th</sup> Annual International Conference  
September 17, 2018 ♦ 9:50AM - 4:00PM

Rite Aid Lounge (2nd Floor), Gozzo Student Center  
Albany College of Pharmacy, 106 New Scotland Avenue, Albany, NY

*Three \$250 Poster Awards ♦ Lunch Provided ♦ Free Parking*



## Conference Overview

This free international conference is the 16th annual conference in a series that explores recent advances in medicine, biotech and pharma. **NO REGISTRATION IS REQUIRED.** As in past years, the major sponsors are the Pharmaceutical Research Institute (Rensselaer, NY) and Bawa Biotech LLC (Ashburn, VA). This year's conference is focused on innovative advances from nanomedicine to precision medicine. The conference will offer networking opportunities to physicians, scientists, engineers, lawyers, business professionals, technology transfer specialists, policy makers and venture capitalists. Last year's conference drew over 100 attendees. **Conference Link:** <https://pri-albany.org/>

## Terminology and Definitions

Although the terms “nanotechnology,” “nanomedicine” and “precision medicine” are relatively new, the concepts have been a part of healthcare and biomedicine for many years.

Nanotechnology is the design, characterization, and manufacturing, application of structures, devices and systems controlled by manipulation of size and shape at the nanometer scale that produces structures, devices and systems with at least one novel/superior characteristic or property. (Source: *Nanomedicine* 2(3):351-374; (2007))

Nanomedicine is the application of nanotechnology in a healthcare setting to prevent and treat human disease.

Precision Nanomedicine is “an emerging approach for disease treatment and prevention that takes into account individual variability in genes, environment, and lifestyle for each person.” (Source: NIH) This approach will allow doctors and researchers to predict more accurately which treatment and prevention strategies for a particular disease will work in which groups of people. It contrasts with a “one-size-fits-all” approach, in which disease treatment and prevention strategies are developed for the average person, with less consideration for the differences between individuals.

## Resource Center

### **American Society For Nanomedicine**

<https://www.nanomedus.org/resource-center>

## Young Scholar Awards for Posters

All awards will include a plaque or certificate. Two “Young Scholar Awards” (sponsored by Dove Medical Press, UK) in the amount of \$250 each will be presented for best posters by Dr. Thomas J. Webster, Editor-in-Chief of the *International Journal of Nanomedicine*. Additionally, the “Young Investigator Award” (sponsored by Bawa Biotech LLC, Ashburn, VA) will include signed copies of the 2-volume set, *Handbook of Clinical Nanomedicine* (<https://www.amazon.com/Handbook-Clinical-Nanomedicine-Two-Stanford/dp/9814316172>). The “Best Poster in Biomedicine Award” (sponsored by MDPI AG, Basel, Switzerland) in the amount of \$250 will be presented by Dr. Shaker Mousa, Editor-in-Chief of *Biomedicines*. The poster competition is open to all students (undergraduate, graduate, medical, law, pharmacy), medical fellows and pre-/postdoctoral fellows. Posters may be brought directly to the conference site on September 17.

## Travel, Lodging and Parking

Coffee breaks (sponsored by *Biomedicines*, MDPI AG, Basel, Switzerland) and lunch (sponsored by the Pharmaceutical Research Institute, Rensselaer, NY) will be provided to all attendees at no cost. Free parking will be available adjacent to the conference venue. There is a large selection of lodging available close by: <http://www.albany.org/hotels>. The closest airport is the Albany International Airport, a 20-minute taxi ride to the conference site. Limited travel funding for young investigators is sponsored by Bawa Biotech LLC (Ashburn, VA). Contact Dr. Bawa to apply for travel awards.

## Call for Authors

All speakers and attendees are invited to contribute to the book, *The Road from Nanomedicine to Precision Medicine*, which is volume 4 in the *Handbook of Clinical Nanomedicine* series and due to be published in spring 2019: <http://www.panstanford.com/>.

## Organizing Committee

Brian Reese, PhD, JD, MBA, Choate, Hall & Stewart LLP (Boston, MA)  
Neil Gordon, BEng, MBA, Guanine, Inc. (Montreal, Canada)  
Thomas J. Webster, PhD, Northeastern University (Boston, MA)  
Anil R. Diwan, PhD, NanoViricides, Inc. (Shelton, CT)

## Conference Chairs

Shaker A. Mousa, PhD, MBA  
Chairman & Executive Vice President  
The Pharmaceutical Research Institute | Rensselaer, NY  
Vice Provost and Professor  
Albany College of Pharmacy and Health Sciences | Albany, NY  
518-694-7397 | shaker.mousa@acphs.edu

Raj Bawa, MS, PhD  
Patent Agent | Bawa Biotech LLC | Ashburn, VA  
Vice President | Guanine Inc | Rensselaer, NY  
Scientific Advisor | Teva Pharmaceutical Industries, Ltd. | Israel  
703.582.1745 | bawa@bawabiotech.com



**Networking and Coffee: 9:00 AM – 9:50 AM**



**Welcome: 9:50 AM**

T. Gregory Dewey, PhD  
President, Albany College of Pharmacy and Health Sciences (Albany, NY)

**Keynote: 10:00 AM – 10:30 AM**

*On the Road to Clinical Trials: cGMP Manufacturing of Antiviral Nanomedicines*

Anil R. Diwan, PhD

Chairman and President, NanoViricides, Inc. (Shelton, CT)

**Keynote: 10:30 AM – 11:00 AM**

*Immunological Issues with Medicines of Nano Size: The Price of Dimension Paradox*

János Szebeni, MD, PhD, DSc

Director, Nanomedicine Research and Education Center, Semmelweis University School of Medicine (Budapest, Hungary)

Founder, SeroScience, Ltd. (Budapest, Hungary)

**Nanomedicine and Personalized Medicine: 11:00 AM – 12:00 PM**

Moderator: Shaker A. Mousa, PhD, MBA

Chairman & Executive Vice President, The Pharmaceutical Research Institute (Rensselaer, NY); Vice Provost and Professor, Albany College of Pharmacy and Health Sciences (Albany, NY)

*Impact of Nanomedicine on the Future of Medicine: The Road toward Precision Medicine/Case Studies*

Shaker A. Mousa, PhD, MBA

Chairman & Executive Vice President, The Pharmaceutical Research Institute (Rensselaer, NY); Vice Provost and Professor, Albany College of Pharmacy and Health Sciences (Albany, NY)

*Nanodrugs: Medicine, Patent Law, Regulation and Translation*

Raj Bawa, MS, PhD

Patent Agent, Bawa Biotech LLC (Ashburn, VA); Vice President, Guanine Inc (Rensselaer, NY); Scientific Advisor, Teva (Israel)

*Implantable Nanosensors: Could this be the Future for Personalized Medicine?*

Thomas J. Webster, MS, PhD

The Arthur W. Zafiropoulos Chair and Professor of Chemical Engineering, Northeastern University (Boston, MA)

**Lyme Disease: 12:00 PM – 12:35 PM**

Moderator: Neil Gordon, PE, MBA, CEO, Guanine, Inc. (Rensselaer, NY)

*Lyme Disease: From Mechanisms to Diagnosis and Prevention*

Yi-Pin Lin, PhD

Research Scientist, Wadsworth Center, New York State Department of Health (Albany, NY)

*Lyme Disease: Early Stage Detection with Bioanalyte Signal Amplification and Artificial Intelligence*

Neil Gordon, PE, MBA

President, Guanine, Inc. (Rensselaer, NY)



**Networking Lunch: 12:35 PM – 1:30 PM**

**Plenary Keynote: 1:30 PM – 2:00 PM**

*Thermosensitive Drug Delivery in Liver Cancer: A Story of Second Chances*

Nicholas Borys, MD

Senior Vice President and Chief Medical Officer, Celsion Corporation (Lawrenceville, NJ)

**Nanomedicine and Personalized Medicine: 2:00 PM – 3:40 PM**

**Moderator: Charles Boylen, PhD, Professor Emeritus, Department of Biological Sciences, Rensselaer Polytechnic Institute (Troy, NY)**

*Role of Nanotechnology in Developing New Vaccine Adjuvants*

Sam Brauer, PhD

Principal, Nanotech Plus, LLC (Shelton, CT)

*Integrating MTM, Pharmacogenomics and ADE/ADR data for Optimal Patient Care*

Dave Wolfe, MBA

President, FusionRX, LLC (Davidson, NC)

*Structural Basis of Genetic Polymorphisms in Cytochrome P450 2C9*

Manish B. Shah, PhD

Assistant Professor, Department of Pharmaceutical Sciences, Albany College of Pharmacy and Health Sciences (Albany, NY)

*Novel Allogeneic Factory Manufacturable Cell Lines to Cure Parkinson's Disease*

Ashok Chakraborty, PhD

Chief Scientist, Regenerative Therapies Program, AllExcel, Inc. (West Haven, CT)

*Preclinical Testing of Nanodrugs: The Pig CARPA Model*

Peter Bedocs, MD, PhD

Senior Scientist, Henry M Jackson Foundation for the Advancement of Military Medicine; Assistant Professor, Uniformed Services University of the Health Sciences (Rockville, MD)

*Pharmacogenetic Guided Patient Therapy*

Jacqueline H. Cleary, PharmD

Assistant Professor of Pharmacy Practice, Albany College of Pharmacy and Health Sciences (Albany, NY)

**POSTER**



**Raffles and Poster Viewing: 3:40 PM – 4:00 PM**

**Young Scholar Award Ceremony: 4:00 PM – 4:15 PM**

“Young Scholar Award” (sponsored by Dove Medical Press, UK) in the amount of \$250 each will be presented for the two best posters by Dr. Thomas J. Webster, Editor of the *International Journal of Nanomedicine* (ISSN: 1178-2013).

The “Young Investigator Award” will be presented by Dr. Raj Bawa, Series Editor of the *Pan Stanford Series on Nanomedicine* (ISBN: 978-9-814-31617-0).

The “Best Poster in Biomedicine Award” (sponsored by MDPI AG, Basel, Switzerland) in the amount of \$250 will be presented by Dr. Shaker A. Mousa, Editor of *Biomedicines* (ISSN: 2227-9059).



**Conference Chairs' Closing Remarks – 4:15 PM**



**Dinner (No Host, All Invited) – 6:00 PM**

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## Sponsors and Media Partners

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Nanopharmaceuticals LLC



WILEY



American Society For Nanomedicine

