

IowaBio March 2015

MONTHLY UPDATE

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PARTICIPATION OPPORTUNITIES

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5th Annual Golf Outing



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Iowa Biotech Association will be hosting its Fifth Annual Golf Outing on Thursday, June 4th, at The Legacy Golf Club in Norwalk, Iowa. The event will offer a great day of fun and prizes, as well as opportunities to network with our generous event sponsors!

This outing is for IowaBio members/affiliates and guests of our contract vendors. We kindly encourage attendees to bring a member from their Purchasing/Procurement department so they can learn more about IowaBio's vendors and discounts available through our [BioVantage Program](#).

Learn more at www.iowabio.org/golf

<u>Location</u>	<u>Schedule</u>	<u>Registration</u>
The Legacy Golf Club 400 Legacy Parkway Norwalk, Iowa 50211	<ul style="list-style-type: none">• 8:00am – Registration & Breakfast• 8:15am – Putting Contest & Expo• 9:20am – Welcome & Course Rules• 9:30am – Shotgun Start	<p>The deadline to register is May 22, 2015</p> <p>For more information, please visit www.iowabio.org/golf</p>



IowaBio Legal Symposium: Intellectual Property

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On Thursday, April 30, 2015 Iowa Biotechnology Association (IowaBio) will be hosting a Legal Symposium focused on Intellectual Property issues faced by biotech companies today. The event will feature IowaBio's member law firms, who are top experts in the IP field, and will take place at the Alumni Center at Iowa State University in Ames, Iowa. **The event is FREE to IowaBio members.** Additional attendees will be charged \$25.00 per person. Please feel free to [share this event](#) with industry contacts and co-workers!

Register by April 27th at www.iowabio.org/IP
This event has been approved for 5.75 credit hours of CLE

Legal Symposium Details

Location

Iowa State University Alumni Center, Reiman Ballroom South, 420 Beach Avenue, Ames, Iowa 50011

Parking on East Side of Building

Agenda

8:30am – 12:05pm
Morning Presentations

12:05pm – 12:45pm
Lunch

12:45pm – 3:30pm
Afternoon Presentations

3:30pm – 4:00pm
Networking Reception & Refreshments

Cost

IowaBio Members: Free
Non-IowaBio Members: \$25/person

Presentations

Morning Presentations

IP Pitfalls and Traps to Avoid - Protecting Your IP, Reducing Liability and Risk

Finding Financing for IP Development Efforts

Experimental Use and Public Disclosure Issues as They Relate to Patent Protection

Post Grant Proceedings and the Biotech Industry

Afternoon Presentations

Latest Trends in Patents

101 Patent Issues and Strategies after Prometheus

Participating Law Firms

 **BRICK GENTRY PC.**
We put clients first.

 **Brown Winick**
ATTORNEYS AT LAW*

 **DAVIS BROWN**
LAW FIRM

FAEGRE BAKER DANIELS

 **HAMILTON IP LAW**
REGISTERED U.S. PATENT ATTORNEYS

NYEMASTER
NYEMASTER | GOODE PC

Shuttleworth & INGERSOLL
ATTORNEYS AT LAW • ESTABLISHED 1854

NEW MEMBER SPOTLIGHT

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HARRISVACCINES

HARRISVACCINES

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Company Bio

HARRISVACCINES is an emerging leader in the development and commercialization of herd-specific, rapid response, and efficient vaccines. Our vaccines target newer and/or difficult-to-control disease outbreaks that threaten today's food-producing livestock. One clear advantage for us is our ability to rapidly produce a vaccine designed and manufactured specifically for an individual disease profile faced by a given producer at a competitive price. We use state-of-the-art advanced molecular science employing a proprietary Replicon ("RNA") Particle Technology Platform, known as **SirraVaxSM**, to develop these rapid-response, herd-specific solutions for livestock producers. In our process, we identify genetic sequences, present in viral infections, to create strain-specific vaccines. After identification of a viral genetic sequence, vaccine development using our platform takes only four to six weeks before it is available for distribution and administration. This is much faster than the typical time period it takes today's leading companies to develop and produce traditional vaccines. Since we can respond so quickly, we have been very effective in assisting our customers rapidly in containing and eradicating diseases, resulting in their increased productivity and profitability.

[Learn more about **HARRISVACCINES' SirraVaxSM RNA Particle \(RP\) Technology**](#)

Dr. Hank Harris Bio (DVM and PhD)

Dr. Harris is one of the world's foremost authorities on infectious diseases of swine and related pathogens in people. In the 1970s, he discovered and named the cause of swine dysentery. In the early 1980's, he was one of the founders and a CEO of NOBL Laboratories, an animal health vaccine company that was acquired by Boehringer Ingelheim Vetmedica. In the late 1980's, he was vice president of PIC USA, Inc. (formerly Pig Improvement Company), a worldwide leader in pig breeding and genetics. While at PIC Dr. Harris introduced the concept of multiple site production to the swine industry, an approach now adopted globally. Hank is an emeritus professor of Animal Science and Veterinary Medicine at Iowa State University.



Iowa Central Community College

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Iowa Central Community College is located in Fort Dodge, Iowa. This community is experiencing a tremendous amount of economic growth due to the addition and expansion of several biotechnology companies in this area. These companies include Boehringer-Ingelheim, Cargill, CJ Bio-America, Valero and POET. The biotechnology program at Iowa Central Community College is working to increase the number of people who are trained to work in these facilities either as laboratory technicians or process operators. There are also a number of food processing facilities that employ graduates from this program to work as quality assurance technicians. The placement rate from this program is 95% with an average starting salary of about \$40,000 per year.

The biotechnology program focuses on three major areas:

The first of these is basic analytical chemistry. The goal is to train students on how to properly use, calibrate and maintain analytical balances, pipets, spectrophotometers, pH meters and HPLC systems. Additionally, we cover topics like titration, moisture analysis, calibration charts, control charts, lab safety, basic microbiology, aseptic technique and HACCP.

The second area is molecular biology. This covers the topics of DNA, proteins, lipids, carbohydrates and the role each of these biomolecules plays in living cells. The student learns how to do protein measurement using the Bradford method, UV absorbance, IEP electrophoresis and ELISA. They also gain experience on how to manipulate DNA. This includes extraction of DNA, the use of restriction enzymes, gel electrophoresis, PCR, Real Time-PCR and the transformation of living cells. The properties of enzymes are studied so the student understands the role they play in orchestrating metabolism and their use in industry. Particular emphasis is placed on the enzymes that degrade carbohydrates like starch and cellulose for production of fuel grade ethanol. Lipids are studied for the synthesis of biodiesel fuel.

The final area is fermenter operations. Here the student learns the basic principles of how fermenters work. Topics covered in this section include control systems that can be used to maintain sterility, temperature, pH, and dissolved oxygen. It also covers various methods to control foaming and how steam delivery systems should be maintained to remove air, condensate and debris. Students learn what to look for in piping and instrument diagrams and also learn how to fine tune a PID loop.

A recurring theme in all of the classes deals with the social implications of biotechnology. There are many new technologies that could have both good and bad implications for our species. These include stem cells, bio-fuels, GMO foods, gene therapy, artificial chromosomes, DNA microarrays, bio-printing, RNA interference, the CRISPR/Cas system, Optogenetics and synthetic biology. Educating people about these technologies will hopefully result in society making better decisions as it implements ever more sophisticated applications of biotechnology.

Contact Information

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Biotechnology Coordinator
(515) 574-1318

UPCOMING EVENTS

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Midwest Events

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Midwestern Scientific Research Career Fair

April 11, 2015 / Omaha, Nebraska

This multi-university event is to assist graduate and professional students from all disciplines to explore and pursue post-graduate work in the Midwest. Representatives from industry, academia, government entities, and alternative careers in science will publicize their career opportunities and recruit possible candidates while also providing guidance on the future career aspirations of our fair participants.

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IowaBio Legal Symposium: Intellectual Property

April 30, 2015 / Ames, Iowa

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Lunch-n-Learn: Early Stage Financing Strategies for Life Sciences Companies

May 5, 2015 / Ames, Iowa

On Tuesday, May 5, the Iowa Biotech Association, the ISU Research Park and the Iowa Small Business Development Center will be hosting a lunch-n-learn session about early stage financing strategies for biotech/life sciences companies. This event will feature John LaMarche of VentureNet Iowa and Mike Colwell of the Business Innovation Zone. This session is free for ISU Research Park tenants and IowaBio members.

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Global Events

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BIT's 6th Annual Symposium of Enzyme & Biocatalysis

April 25-28, 2015
Nanjing, China

PEGS Boston

May 4-8, 2015
Boston, MA

AAPS National Biotechnology Conference

June 8-10, 2015
San Francisco, CA

BIO International Convention

June 15-18, 2015
Philadelphia, PA

BIO World Congress on Industrial Biotechnology

July 19-22, 2015
Montreal, Canada

View All Upcoming Events on our [Events Calendar](#)





[IowaBio 5th Annual Golf Outing](#)

June 4, 2015 / Norwalk, Iowa

This outing is for IowaBio members/affiliates and guests of our contract vendors. The event will offer a great day of fun and prizes, as well as opportunities to network with our generous event sponsors! We kindly encourage attendees to bring a member from their Purchasing/Procurement department so they can learn more about IowaBio's vendors and discounts available through our [BioVantage Program](#).

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[2015 Annual ABI Conference](#)

June 10-12, 2015 / Bettendorf, IA

ABI is heading east for our 2015 Taking Care of Business Conference. Make plans now to join us along (and on!) the Mississippi River next June for the best business conference of the year! This event includes top networking opportunities, inspiring speakers, educational breakouts and, of course, golf.

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[KC Animal Health Investment Forum](#)

September 1, 2015 / Kansas City, MO

The KC Animal Health Investment Forum provides a unique opportunity for venture capital funds, investment firms and animal health companies to hear from emerging companies with the newest technology. It offers one of the only opportunities in the world for early stage companies in the animal health sector to present their vision and business plan to potential investors. Companies presenting at the Forum have raised nearly \$130 million. Several have also received licensing agreements or distribution contracts.

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SUBSCRIBER INFORMATION

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Monthly Newsletter

This message was sent to you as a benefit of membership with IowaBio and/or a subscriber of our monthly newsletter. If you know of a company that would benefit from the Association's advocacy, financial savings and education/workforce focus, please have them contact the Association at 515-327-9156 or email info@iowabio.org. Membership details are also available at www.iowabio.org/membership.

If you would like more information on any topic or no longer wish to receive these messages, please email melissa@iowabio.org or call 515-494-9242.

Capitol Report

IowaBio began issuing a Capitol Report in February 2015. It is a legislative update issued on a periodic basis and allows readers to learn more about our legislative activities and bills that may affect the biotechnology industry. If you would like to receive these reports by email, please visit www.iowabio.org/capitolreport - a link to subscribe and view archives is available on this page.

SPEAKER OPPORTUNITIES

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IowaBio staff members are available to give 15-60 minute speeches to interested groups, such as Rotary Clubs, trade associations, or civic groups. A broad range of topics could be discussed, included biotechnology, healthcare, food vs. fuel, legislative policy, investment and more. Contact Melissa Moyer at (515) 327-9156 or melissa@iowabio.org.