

IowaBio October 2015

MONTHLY UPDATE

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PARTICIPATION OPPORTUNITIES

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Iowa Business Survey: STEM Investment

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On behalf of the Governor's STEM Advisory Council, IowaBio is asking its subscribers to participate in a five-item survey that will capture an invaluable statewide snapshot of business investment in education, particularly regarding the high-demand fields known as STEM (science-technology-engineering-mathematics). Collective responses by you and your peers across Iowa will inform state leaders and lawmakers regarding private sector commitment to growing the talent pipeline to essential STEM careers.

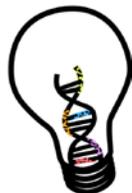
The survey will take approximately two minutes to complete
Responses are due by October 16, 2015

Take Survey



IowaBio Legal Symposiums

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ONE MONTH BEFORE THE FIRST SYMPOSIUM! On November 3rd and November 19th Iowa Biotechnology Association (IowaBio) will be hosting a Legal Symposium focused on Human Resource issues faced by biotech companies today. The presentations will be the same on both dates and will take place in Ames and Coralville, respectively. **Both events have been approved for 5.75 credit hours of CLE each.**

To Register, please visit www.iowabio.org/legalsymposium

Dates & Locations

November 3, 2015

8:30am – 4:00pm

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

Parking on East Side of Building

November 19, 2015

8:30am – 4:00pm

State Hygienic Laboratory's
Center for the Advancement of Laboratory
Science
2490 Crosspark Road
Coralville, Iowa 52241

Registration Fees

IowaBio Members

\$49 per person, per event

Non-Members

\$79 per person, per event

Agenda

8:30am – 12:05pm

Welcome and Morning Presentations

12:05pm – 12:45pm

Lunch

12:45pm – 3:30pm

Afternoon Presentations

3:30pm – 4:00pm

Networking Reception & Refreshments

Morning Presentations

Navigating the Bermuda Triangle – The Intersection of ADA, FMLA and Worker's Compensation

Data/Network/Computer Security and Data Breaches

Handling Leave Issues

IP Policy In The Employment Process – Employment Agreements and Attorneys/Product Managers Relationships

Afternoon Presentations

Social Media in the Workplace

Internal Investigations: Getting the Whole Story

Terminations and Disciplinary Action – How to Do It and Survive

Sponsors



Partnering for Growth's

BIOTECH INNOVATION SHOWCASE



Celebrating Iowa's Growth in Biotechnology
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March 30, 2016
 7:30am – 4:30pm
 FFA Enrichment Center
 Ankeny, Iowa

Learn More, Apply & Register:
www.iowabio.org/innovation

Iowa Biotechnology Association (IowaBio) invites you to attend the Biotech Innovation Showcase, part of their Partnering for Growth forum! The Biotech Innovation Showcase is an investor conference that joins innovators, inventors and investors together to present and discuss the development of biofuels and biomaterials; advances in food, ag and plant genetics; progress in animal health; as well as human health and medical technology.

**Applications from Early- and Mid-Stage companies accepted starting October 1, 2015.
 Registration for general attendance opens January 1, 2016.**

\$5,000 will be awarded to the best Early-Stage presentation on March 31st, 2016
 View a list of application FAQs at www.iowabio.org/innovationFAQ

Who Should Apply	Who Should Attend	Early Bird Rates
Early- to Mid-Stage biotech companies focused on: <ul style="list-style-type: none"> • Animal or Human Health • Food, Ag or Plant Genetics • Biofuels or Biomaterials • Medical Technology 	<ul style="list-style-type: none"> • Angel Investors • Seed Capital Funds • Venture Capitalists • Investment Firms • Biotech Leaders • Students 	(Early Bird rates end 2/29/16) <ul style="list-style-type: none"> • IowaBio Members: \$49/person • Non-Members: \$79/person • Students: Free

Judging Panel	
Dr. Peter Keeling <i>Center for Biorenewable Chemicals</i>	Tom Swegle <i>MedCara Pharmaceuticals</i>
Brian Jones <i>Iowa Corn Growers Association</i>	Roman Terrill <i>Integrated DNA Technologies</i>
Dr. John Swart <i>Exemplar Genetics</i>	Jason Webber <i>Sustainable Conversion Ventures</i>

Keynote Speakers	
Matt Bell Principal <i>Cultivian Sandbox</i>	Debi Durham Director <i>Iowa Economic Development Authority</i>

NEW MEMBER SPOTLIGHT

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Glycomyr, Inc.

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Glycomyr is a joint venture owned by Jesse Goff and Ronald Horst based in Ames, IA. Glycomyr is developing products based on vitamin D to treat and prevent a number of human and animal diseases. The basis for these products is a plant that contains a number of vitamin D-related compounds that have been shown to have unique activities affecting both calcium metabolism and cell growth. These plant compounds are glycosides of the hormonal form of vitamin D, known as 1,25-dihydroxyvitamin D and its precursor, 25-hydroxyvitamin D. Glycomyr has made progress in isolating these compounds and has tested crude preparations in both animal production systems and in cell culture. Glycomyr has also succeeded in synthesizing pure and stable forms of these compounds for investigational use. We have done a number of studies that have demonstrated that we are able to activate vitamin D dependent mechanisms in the colon – and almost exclusively in the colon ie- we have targeted delivery of very active vitamin D compounds to a section of the gut that normally is vitamin D insufficient. Glycomyr's competitive strength, at this point, is that we have identified a raw plant material with robust bioactivity and synthesized analogs of those compounds that can be developed for a variety of applications and products as follows:

Use Vitamin D compounds to improve animal and human health.

- 1) Incorporating plant leaves or extracts of the leaves into animal diets to improve animal health or productivity. We have already conducted studies which demonstrate adding the plant leaves to the diet of laying hens increases eggshell thickness and improves bone strength and phosphorus utilization in broiler birds.
- 2) Test glycosides of 1,25-dihydroxyvitamin D for anti-cancer activity. These will be developed as primary or adjunct therapies for neoplastic tumors in patients with cancer. We have already shown that one such glycoside of 1,25-dihydroxyvitamin D has the ability to slow growth of cancer cells in tissue culture. We have also been able to slow growth of syngeneic mouse mammary gland tumors using this compound. We are currently supplying the vitamin D glucuronide compounds for studies at ISU. These studies will be testing the ability of these compounds to slow growth of tumors in mice induced to develop tumors in the colon using the carcinogen, azoxymethane
- 3) Identify and/or isolate glycosides of 1,25-dihydroxyvitamin D with the ability to activate bactericidal mechanisms within immune cells. These compounds will be developed as primary or adjunct agents to induce immune cell activation for treatment of granulomatous infections, such as tuberculosis, and to fight infections localized to particular areas of the gut and other organs.
- 4) Develop methods to convert 1,25-dihydroxyvitamin D glycosides in plant extracts to free 1,25-dihydroxyvitamin D for sale into the pharmaceutical industry.
- 5) Utilize glycosides of vitamin D to improve colon health. Vitamin D compounds are believed to turn down the immune response – vital to reducing or shutting off inflammatory responses. We have been able to reduce symptoms of inflammatory bowel disease in a mouse model of Crohn's disease with one of the synthesized glycosides of 1,25-dihydroxyvitamin D.

Glycomyr Inc. Products

A few years ago rickets in baby pigs started to appear on many farms. We were asked to come up with a way to treat or prevent the disorder which essentially has arisen as a result of feeding sow milk longer and raising piglets in confinement to keep out infectious disease. We came up with an elixir called Wean-D that is given to piglets in their first days of life. It has enough vitamin D in it to maintain adequate supplies until the piglet is weaned. It eliminated rickets as a problem and has a small improvement in weight gains and reduced mortality. We currently add vitamin E to the elixir as well to make sure the piglets have adequate vitamin E as well. Vitamin E insufficiency occasionally occurs on farms and causes piglets to have malformed and malfunctioning mulberry shaped hearts.

UPCOMING EVENTS

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Midwest Events

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Innovation Expo 2015

October 21, 2015 / Coralville, IA

Innovation EXPO 2015 events are designed for entrepreneurs, creatives, financial resources and business leaders in Iowa to connect, help our region grow more new business, create jobs, keep our region vibrant and globally competitive - and to celebrate entrepreneurs. It's really all about the entrepreneurs. Budding or existing - they are our future. See & touch their products. Connect with potential partners.

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Iowa Women Lead Change – Central Iowa Conference

October 28, 2015 / Des Moines, IA

The theme for IWLC's 2015 slate of four conferences is "Transforming Journeys." The Central Iowa Conference features the general track session, as well as the Student Track Program. The IWLC Central Iowa Conference has been tailored specifically to the Des Moines community by a local steering committee with IWLC staff assistance.

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Biotech Innovation Showcase

March 30, 2016 / Ankeny, IA

An investor conference that joins innovators, inventors and investors together to present and discuss the development of biofuels and biomaterials; advances in food, ag and plant genetics; progress in animal health; as well as human health and medical technology. **Applications accepted October 1, 2015. General registration will open January 1, 2016.**

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Partnering for Growth Forum

March 31, 2016 / Ankeny, IA

This Forum focuses on multiple biotech industries active in the state of Iowa, including Food & Agriculture, Industrial & Environmental and Healthcare & Pharmaceutical. This event is a premier learning, collaborating and networking highlight for the biotech community. Registration will open January 1st.

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Global Events

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NIH SBIR/STTR Conference

October 27-29, 2015
Seattle, WA

ABLC Next

November 2-5, 2015
San Francisco, CA

Drug Development Boot Camp

November 17-18, 2015
Boston, MA

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



INDUSTRY NEWS

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News stories containing company logos indicate IowaBio members

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Food & Agriculture

Food & Ag

- ❖ USDA Approves **Simplot's GM Potato**
- ❖ Could **GMOs Save Endangered Plants and Animals?**
- ❖ **Tennessee** Announces Investment to Establish **100 Ag-Tech Businesses by 2020**
- ❖ Lawmakers to consider resolution asking **government to create GMO labeling policy**
- ❖ **Durbin** Questions **GMO Labeling Movement**
- ❖ **China-Funded Lab to Boost Kenya's Agricultural Innovation**
- ❖ **American GMO perceptions are shifting**: journalist, biotech advocate tells Press Club

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Human/Animal Health

Human/Animal Health

- ❖  **Novartis launches first U.S. 'biosimilar' drug** at 15 percent discount
- ❖  **Congressional Patent Reform Threatens Medical Innovation**
- ❖ **NASA** wants to **recycle astronaut poop** into plastics and vitamins
- ❖ **USDA** prepares for **bird flu vaccines** despite uncertainty
- ❖ **Animal health entrepreneurs** pitch investors at well-attended **KC forum**
- ❖ **VetStem** launches trial of **drug-free** method for **preventing hemorrhage in horses**
- ❖ Peter Thiel Backs **Biotech "Unicorn" Fighting Cancer Stem Cells**

Industrial & Environmental

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Industrial & Environmental



- ♥ **BIO to Hold 2016 World Congress** at S.D. Convention Center
- ♥ New Study: **Biofuel Use Saved 589.3 Million Tons of Carbon Emissions** Over the Past Decade
- IOWA STATE UNIVERSITY
- ♥ NSF awards maximum support to **Iowa State-based Center for Biorenewable Chemicals**
- ♥ The innovators: a new **U-bend to prevent the buildup of fatbergs** in sewers
- ♥ Flexible **foam made from algae**
- ♥ **NASA** wants to **recycle astronaut poop** into plastics and vitamins
- ♥ Waitrose & Sharpak to commission **biodegradable packaging made from agricultural waste**
- ♥ **Artificial 'Plants'** May Replace **Fossil Fuels**

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STEM (Science, Technology, Engineering & Math)

STEM



- ♥ Iowa Grows **Roots in STEM**
- ♥ Iowa **STEM Council** announces **teacher award**
-  **BUILD IN GOOD COMPANY.**
- ♥ At **Drake**, there is **STEM** and then there are stems
- ♥ Applications open for **Teach Iowa Scholar program**
- ♥ **Colorado girls'** path to **STEM jobs** is being cleared
- ♥ **Omaha-Council Bluffs area teachers** invited to apply for **STEM grants**

Job Postings

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Please see below for a list of positions available through the Riley Resource Group. For more information, visit www.rileyresourcegroup.com

<u>Position</u>	<u>Description</u>	<u>Contact</u>
Help Desk Technician – Des Moines	Installing PCs and related hardware/software, investigating issues, troubleshooting end user issues, etc.	Katherine Harrington kharrington@riverheadresources.com
PJ Plant Manager – Pacific Junction	To provide overall management of the plant operations. Accountable for efficient processing, quality, safety, and environmental control programs	Kali Cook kcook@riverheadresources.com
Operator (2 nd shift) – Des Moines	Responsible for day-to-day production in our plants that exceeds customer satisfaction in an efficient, effective, and safe manner	Amanda Blackman ablackman@riverheadresources.com
Truck Driver – Pacific Junction and Des Moines	Responsible for safe operations of tractors with tanker trailers to deliver and/or pick up product from customer/vendor locations	Katherine Harrington kharrington@riverheadresources.com
Maintenance Tech – Sioux City	To provide technical maintenance expertise to our plant in areas of welding, fabrication, electrical work, pump and other equipment maintenance	Kali Cook kcook@riverheadresources.com
Maintenance Tech – Council Bluffs	To provide technical maintenance expertise to our plant in areas of welding, fabrication, electrical work, pump and other equipment maintenance	Kali Cook kcook@riverheadresources.com
Environmental Health & Safety Manager – Des Moines	Plans, directs, and monitors the implementation of Safety, Health, and Environmental programs to create organizational behavior that engages all employees in the achievement of a safe and compliant culture	Kali Cook kcook@riverheadresources.com



State Hygienic Laboratory: Laboratory Education Manager

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The State Hygienic Laboratory (SHL) at the University of Iowa (Iowa's Environmental and Public Health Laboratory) has an excellent opportunity for a skilled and versatile person to fill the role of Laboratory Education Manager, in the Coralville location. The main purpose of the position is to provide leadership and oversight in advancing the education and training mission and vision of the State Hygienic Laboratory (SHL) Center for the Advancement of Laboratory Science.

Applicants should have a Bachelor's or Master's degree in a laboratory science, or an equivalent combination of education and experience and 1-3 years of relevant scientific experience with a Master's degree or 3-5 years of relevant experience with a Bachelor's degree. Must have working knowledge of laboratory regulations and standard lab practices including instrument maintenance and quality control. Must have working proficiency in Microsoft Word, Outlook, PowerPoint, and Excel. Strong communications skills both oral and written and public speaking experience necessary. Must have some experience in program administration.

Desirable qualifications include: certification in laboratory specialty, and some experience with grant writing, fundraising, and budgeting. Knowledge of public health and environmental lab operations, 1-3 years of science education experience and basic experience with Access. Experience with interdisciplinary partnership building highly desirable.

To apply visit the University Employment website at:
<http://jobs.uiowa.edu>

Refer to requisition # 67509

The University of Iowa is an equal opportunity/affirmative action employer. All qualified applicants are encouraged to apply and will receive consideration for employment free from discrimination on the basis of race, creed, color, national origin, age, sex, pregnancy, sexual orientation, gender identity, genetic information, religion, associational preference, status as a qualified individual with a disability, or status as a protected veteran.

SUBSCRIBER INFORMATION

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Monthly Newsletter

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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

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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 Joe Hrdlicka at (515) 327-9156 or joe@iowabio.org.