

BioScience Under the Big Sky

Summer Newsletter

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Welcome to our Summer Newsletter!

A beautiful Summer to Celebrate Montana

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Please Welcome New Member

Jeff Golini

Montana BioScience
Alliance's

All American Pharmaceutical

2014 Directory,
Click Here!

And thank you to Don Beeman, Montana BioScience Alliance Chair, appointed by Governor Bullock as the Main Street Montana Innovation and Technology Key Industry Network Co-Chair

Learn

More <http://www.mainstreetmontanaproject.com>

MEMBER NEWS

Governor Bullock and Director O'Leary Announce Research and Commercialization Technology Grants for Eight Cutting-Edge Research Projects

Author: Ronja Abel/Wednesday, July 22, 2015/Categories: Business

HELENA - Governor Steve Bullock and Montana Department of Commerce Director Meg O'Leary today announced the recent award of \$698,091 in grants to eight research projects in Missoula, Billings, Bozeman and Belgrade. The funding is being made available through the Montana Board of Research and Commercialization Technology (MBRCT).

"These state-of-the-art projects will significantly and positively impact Montana's opportunities for economic growth," said Bullock. "Through investments in innovative research and commercialization, we're not only supporting cutting-edge projects and jobs today, but we're also helping to define what Montana's economy looks like for years to come."

The funded projects and grant awardees for fiscal year 2016 are:

Hyperspectral Imaging using Arrays of Liquid Crystal Filled Optical Microcavities (Russell Barbour,

Advanced Microcavity Sensors/**Spectrum Lab-Montana State University, Bozeman**); \$209,015

Antilipidemic and Anti-adipogenic Impact of PTBP in Mildly Hyperlipidemic and Overweight but Otherwise Healthy Volunteers (Jeff Golini, **All American Pharmaceutical Inc.**, Billings); \$12,500

Demineralized Bone Matrix Bio-Composite Allografts with Enhanced Regenerative Capacity (Mark Schallenberger, **Bacterin International, Inc.**, Belgrade); \$100,000

Cross-Species-Conditioned Xenogenic Bone Grafts for Veterinary Medicine (Jane Shelby, **Timberline Creek Biomedical**, Bozeman); \$100,000

A Flexible FPGA Computational Framework for **Resonon's Hyperspectral Imagers** (Ross Snider, Montana State University, Bozeman); \$100,000

Structural Analysis and In Vivo Characterization of BH3I-1 and BH3I-1 Derivatives (Kurt Toenjes, **Montana State University Billings**, Billings); \$92,039

Inhibition of Retinoic Acid Metabolism in the Skin for the Treatment of Acne (Fanny Astruc-Diaz, **DermaXon LLC**, Missoula); \$59,537

Enhancement of Applied Research in Biomedicine (Richard Bridges, **University of Montana**, Missoula); \$25,000 [Read More](#)

Gallatin high-tech research projects win \$500,000 to create products, jobs.

By Gail Schontzler Chronicle Staff Writer Gail Schontzler [More Here](#)

Untether Data Acquisition with Neuralynx's Cube-64:

The Only Wireless Multi-Subject 64 Channel Digital Acquisition System
Bozeman, MT - (June 24, 2015) - **Neuralynx, Inc.**, announces its revolutionary neural electrophysiology recording and data acquisition system, Cube-64, the only digitally transmitted wireless headstage for freely moving animals. Cube-64 releases animal research subjects from the unnatural restriction of tethers while providing 64 channels of wide bandwidth wireless neural recording.

Designed for multi-subject social interaction and complex maze studies, the compact Cube-64 accurately records both low-frequency alpha and theta oscillations and high-frequency Single Unit Action Potentials from each electrode at a sampling rate of up to 30 kHz. Researchers may connect multiple Cube-64 devices simultaneously to a single Digital Lynx SX system for reliable, 10 meter wireless transmissions, regardless of the subject's movements or orientation, for 16-bit data acquisition and real-time signal processing. Cube-64 also features programmable low and high cut filters, and battery-powered operation from 30 minutes to hours, resulting in a broad range of customization options for rodent to NHP experiments.

Cube-64 was developed in collaboration with laboratories at the forefront of neuroscience research, including the ARL Division of Neural Systems, Memory and Aging, at the University of Arizona. Director Carol A. Barnes, Ph.D. states that "We have been waiting for the development of a high channel capacity telemetry system that can reliably record broad spectrum brain activity comparable to tethered systems, and has low noise in the most challenging environments. Cube-64 has met these requirements, and has enabled us to record from large ensembles of cells in nonhuman primates that are completely unrestrained. [Read More](#)

Bozeman investment firm invests in Bozeman pharmacy startup

By Brook Gardner-Durbin Chronicle Staff Writer Jul 19, 2015

Bozeman-based investment firm **Next Frontier Capital** announced its first investment this week - another company based in **Bozeman, SiteOne Therapeutics**.

Will Price, founder and managing partner with Next Frontier Capital, wrote that the investment was "in the seven figures but was not disclosed for strategic, competitive reasons."

The investment firm was established to promote growth in Montana, specifically in Bozeman's high-tech industries. It closed its first \$20 million fund, intended to provide funding for technology entrepreneurs, in late May. Price has said he hopes to continue funding other companies in the area over the next few years - potentially as many as 10 to 12. SiteOne Therapeutics is founded on technology invented at Stanford University, with which it holds an exclusive license. The company is working to develop non-opioid pain medication. Opioids are medications such as Vicodin, Percocet and Oxycontin that dull pain by reducing the intensity of the pain signals and affect the brain's emotion-processing areas.

Stan Abel, SiteOne CEO, described opioid abuse as an epidemic. According to a statement by Next Frontier Capital, more than 2.5 million individuals abuse opioids, leading to more than 16,000 overdose deaths and costing over \$72 billion annually. [Read More](#)

BELGRADE, Mont., June 24, 2015 (GLOBE NEWSWIRE) -- **Bacterin International Holdings, Inc.** (OTCQX:BONE) has been awarded a new group purchasing agreement for the Bone Tissue Synthetic Implantable Products Category with Premier, Inc. Effective July 1st, 2015, the new agreement allows Premier members, at their discretion, to take advantage of special pricing and terms pre-negotiated by Premier for its members. Bacterin's contracted product portfolio includes OsteoSponge®, OsteoSelect® DBM Putty, OsteoWrap®, BacFast®, hMatrix® ADM, sports medicine allografts, and traditional allografts.

"We are excited to continue our successful relationship with Premier, which operates one of the nation's largest GPOs," said Bob Di Silvio, President of Bacterin. "Bacterin and Premier are focused on delivering quality products that are safe and clinically effective. This partnership and the ensuing collaboration with Premier Members allows both companies to continue to develop longer term programs that improve the way patient care is delivered nationwide."

Bacterin recently formed a national accounts team with a focus on driving revenues through contract utilization. In addition to Bacterin's GPO initiative, this team creates and executes strategies with Integrated Delivery Networks (IDNs) and various health systems, regionally and nationally. Bacterin entered into its first contract with Premier in July, 2012. [See More at:](#)

Rocky Mountain Biologicals Announces Powerful FBS Alternative, Fetalgro

MISSOULA, Mont., Apr. 21, 2015 /PRNewswire-iReach/ -- Rocky Mountain Biologicals (RMBIO), <http://www.rmbio.com>, is proud to announce the release of their high-performance FBS alternative, Fetalgro®. Fetalgro® is RMBIO's proprietary blend of a calf serum base supplemented with proprietary additives that match or outperform FBS' cell growth capabilities in CHO, MRC-5, Vero and a wide range of other cell lines. This product release stems from RMBIO's understanding of their role in advancing cell culture applications worldwide and applying decades of scientific experience and uncompromising quality standards to the global FBS shortage.

Each lot of Fetalgro® is tested by RMBIO's team of experienced scientists in their state-of-the-art cell culture lab at their Missoula, Montana facility. RMBIO makes this investment in product release testing in order to find the optimal 'recipe' for specific cell lines, so customers can be certain they're getting the best possible solution every time, without exception. In independent and in-house cell growth studies Fetalgro® has consistently proven its powerful role in increasing cell growth and productivity, with a price tag that is far more affordable - and far more secure - than relying on FBS alone.

RMBIO's Director and CEO Suresh Daniel stated, "Incorporating Fetalgro® into new research now guarantees our customers a base cell culture medium they can rely on well into the future. That's really important to us, because we understand the level of investment they're making in processes that require FDA approval."

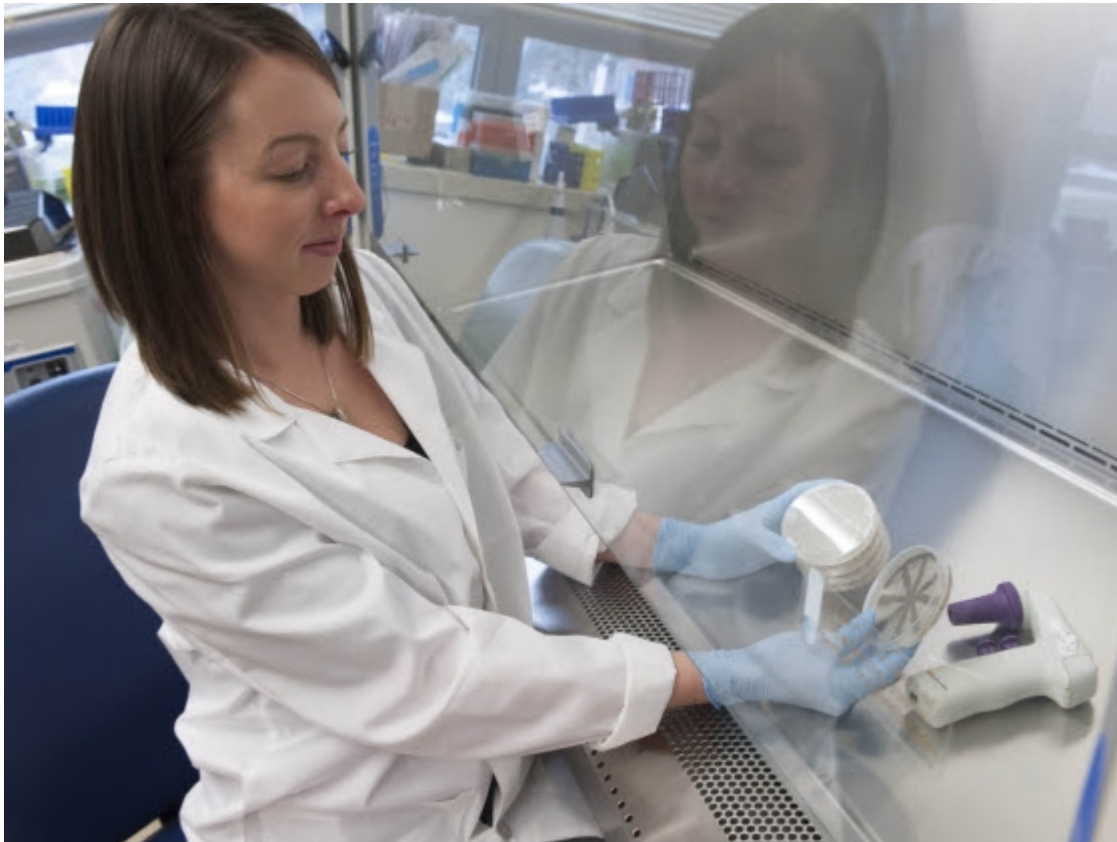
For more information, visit www.rmbio.com. Or, contact Paul Nisbet at 406.541.7624.

Media Contact: Paul Nisbet, Rocky Mountain Biologicals, 406-541-7624, pnisbet@rmbio.com

[Read More](#)

Heart doctors from around the globe gather for annual symposium in

Missoula JULY 25, 2015 6:30 PM * BY DILLON KATO Surgeons, cardiologists, internists, nurses and all other manner of healthcare professionals gathered at Providence St. Patrick Hospital in Missoula this week for the 25th annual Rocky Mountain Valve Symposium. Tim Descamps, executive director of the International Heart Institute of Montana Foundation, which hosts the event, said apart from bringing in doctors from around the country, heart specialists from as far away as Australia, Europe and Asia came to town for the three day conference. He attributed the draw to three main factors: the faculty, location and the hospitality of Missoula. [Read More](#)



(MSU photo by Kelly Gorham).

MSU grad student discovers important molecule in fight against lung infections

January 28, 2015 By Evelyn Boswell, MSU News Service

Montana State University doctoral student Alayna Caffrey studies plates of fungus in Cooley Laboratory. Her research focuses on a fungus that can enter the lungs and kill people with poor immune systems.

(MSU photo by Kelly Gorham).

MSU grad student discovers important molecule in fight against lung infections

January 28, 2015 By Evelyn Boswell, MSU News Service BOZEMAN - A Montana State University graduate student who wants to reduce the number of people dying from lung infections has discovered a molecule that's critical for immunity. Alayna Caffrey, a doctoral student in MSU's Department of Microbiology and Immunology, published her findings Jan. 28 in the online issue of PLoS Pathogens, one of the top scientific journals in microbiology. On Jan. 17, she presented her research at the Gordon Research Seminar on Immunology of Fungal Infections in Galveston, Texas. She was one of about 10 people who were selected to address the group, and she won first place for her presentation. "This is a tremendous honor for her work, especially this early in her Ph.D. studies," MSU immunologist Josh Obar said of both forums. Caffrey researches the early immune response against *Aspergillus fumigatus*, a common mold that can be found in soil or compost piles. The mold causes severe lung infections in people with weakened immune systems, perhaps compromised by

leukemia, chemotherapy or organ transplants. The death rate from *Aspergillus fumigatus* ranges from 30 to 90 percent, depending on the population, Caffrey said. [Read More](#)

June 22, 2015

MSU Billings professor receives NIH grant

National Institutes of Health awarded Dr. Lynn George last week with the R15 Academic Research Enhancement Award

Contacts:

Dr. Lynn George, Assistant Professor, 223-7638

Carmen Price, University Relations & Communications, 657-2266

MSU BILLINGS NEWS SERVICES -

A Montana State University Billings assistant professor landed a National Institutes of Health grant to conduct research leading to a better understanding of the neurodevelopmental and neurodegenerative disease, familial dysautonomia.

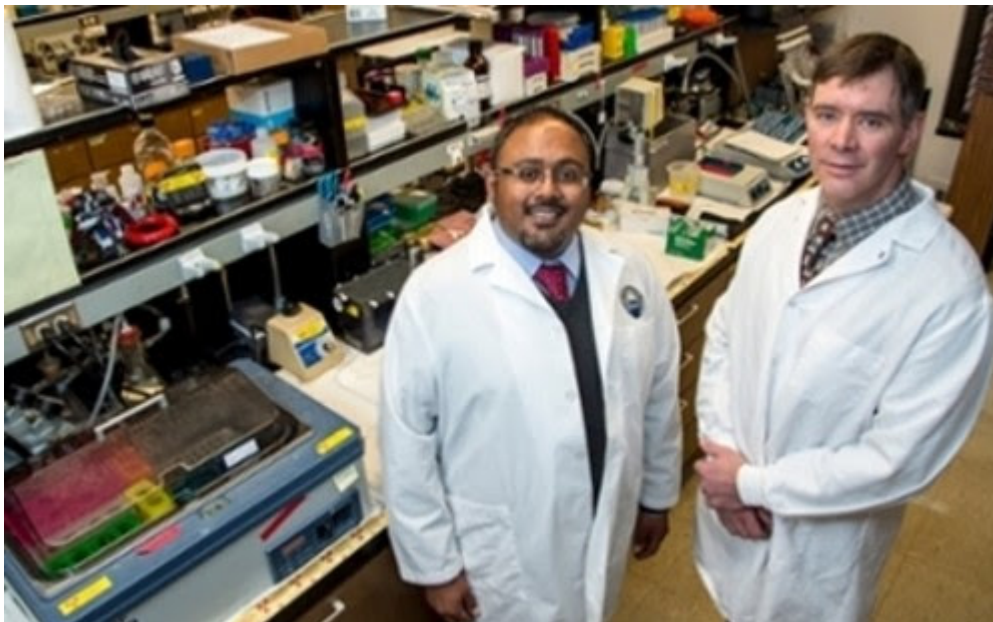
Lynn George, Ph.D., an assistant professor in the Biological and Physical Sciences Department, was awarded the three-year, \$332,000 R15 Academic Research Enhancement Award last week after nearly a decade of research involving the development of the peripheral nervous system and the genetic disorder, FD, also known as Riley-Day syndrome. The syndrome is found primarily in people of Jewish descent and affects the development and survival of certain nerve cells in the autonomic nervous system, which controls involuntary actions such as digestion, breathing, production of tears and the regulation of blood pressure and body temperature.

George said she and her students are seeking to better understand the molecular complex that is defective in the disease, the same complex that can be associated with the more common neurodegenerative disease ALS. She plans to use the R15 funds to investigate the role this complex plays in acquiring ALS, also known as Lou Gehrig's Disease.

[Read More here](#)

NFL, GE Award UM Researchers \$500,000 to Study Brain Injuries

July 23, 2015



UM researchers Sarj Patel, left, and Tom Rau, right, study blood-based biomarkers that indicate how the brain reacts following a traumatic brain injury.

MISSOULA - Two University of Montana researchers were among six final winners nationally to receive \$500,000 from the Head Health Challenge I, an up-to-\$10 million program sponsored by General Electric Co. and the National Football League.

UM Research Assistant Professors Sarj Patel and Tom Rau, whose work aims to speed diagnosis and improve treatment for mild traumatic brain injury, received the news this week.

The goal of the Head Health Challenge is to improve the safety of athletes, members of the military and society overall. The winners were selected from an initial group of 16 challenge winners who were chosen from more than 400 entries from 27 countries, after having been reviewed and nominated by a panel of leading health care experts in brain research, imaging technologies and advocates for advances in brain research. As part of the initial group, the UM research team was awarded \$300,000 in 2014. For the past year, they were provided mentorship and access to GE researchers and industry leaders.

Other projects were selected from both biotechnology companies and leading research institutions, including Banyan Biomarkers, Inc., BrainScope Company, Inc., Medical College of Wisconsin, Quanterix and the University of California, Santa Barbara.

Patel and Rau conduct research at UM's Department of Biomedical and Pharmaceutical Sciences in the Skaggs School of Pharmacy. Their team, which includes senior staff scientists Diane Brooks, Eric Wohlgehegen and Fred Rhoderick, are working to discover blood-based biomarkers that indicate how the brain reacts following a traumatic brain injury. The first phases of their research, which were initially funded by a University Grant Program award at UM, then the Missoula-based Montana Neuroscience Institute and the state-based **Montana Board of Research & Commercialization Technology**, have shown that TBI results in changes in how the brain operates and in levels of proteins and micro-ribonucleic acids. Identifying specific biomarkers will show how TBI changes the brain and could help doctors with diagnosis and treatment.

For more information on the Head Health Challenge, visit <http://www.headhealthchallenge.com>. For more information on the research happening at UM, call Patel at 406-243-5876 or email sarjubhai.patel@umontana.edu or call Rau at 406-529-7916 or email thomas.rau@umontana.edu. [Read More here](#)

University of Montana biologist wants to 'program' cancer cells to die

MAY 13, 2015 DAVID.ERICKSON@MISSOULIAN.COM

A University of Montana cell biologist has made exciting progress toward finding a way to "program" cancer cells to die rather than to grow. Mark Grimes, an associate professor in the Division of Biological Sciences, is focusing on neuroblastoma, which is not the most common type of childhood cancer but is the most lethal. According to 2010 data from the National Cancer Institute, approximately 32 percent of children ages 1 to 14 diagnosed with neuroblastoma died within five years. That is much better than the 66 percent of children who died in 1975, but much work remains to be done. Grimes has discovered how to analyze large, complex sets of data to find patterns in the way in which cells interact with each other. He works at the subcellular level, isolating the molecules that signal cells to divide, die or differentiate. Since humans are born with more cells than we need to survive, many cells in our bodies are already "programmed" to die. By harnessing the signals in those cells, Grimes said it just might be possible to tell cancer cells to do the same. "If we can understand the fundamentals of signaling, then we can hope to manipulate these pathways and maybe apply it to neuroblastoma," he said. "If we can get them to march a little bit further in their differentiation, we could use that differentiation to make each cell susceptible to programmed cell death." Grimes recently had his research about the behavior of cell proteins in childhood cancer published in the Public Library of Science Computational Biology.

[Read More here](#)

12 scientists kick off effort to boost grant-funding savvy

In face of shrinking federal budget, ITHS names 1st group of early-stage researchers to 'Rising Stars' mentorships

By Derek Fulwiler | HSNewsBeat | Updated 9:15 AM, 05.27.2015

Posted in: Education

Biomedical researchers are struggling these days to fuel scientific pursuits. Cuts to the National Institutes of Health (NIH) budget are squeezing many investigators, particularly those early in their careers. Other endowments and funding sources are turning away large numbers of highly-qualified applicants.

These mounting challenges persuaded the University of Washington's Institute of Translational Health Sciences (ITHS) to launch a program to help promising, early-stage investigators to put their best foot forward in applying for dollars that remain on the table.

"Rising Stars," the program, just announced its first group of 12 investigators selected from applicants across the five-state WWAMI region of Washington, Wyoming, Alaska, Montana and Idaho. On June 1, each participant begins a two-year career-development package designed to culminate with the submission of a K- or R-series grant application to the NIH. Cohort members will receive mentoring and instruction in grant-writing, monthly check-ins from peers to get feedback on projects, and will face mock grant reviews. Each also receives funding of up to \$15,000 to support development of their grant application.

"We want to train the next generation of clinical and translational researchers to better establish themselves in their fields," said Dr. Mary (Nora) Disis, associate dean for translational science in the UW School of Medicine. "We believe this program will help them to successfully secure the NIH funding critical to their professional growth."

Among the research aims of the inaugural 12: understanding how primary-care doctors treat patients with bipolar disorder; detecting metabolic biomarkers sensitive and specific to breast cancer; and defining physical-activity levels as they relate to individuals' function with Parkinson's disease.

"The program is an excellent way to foster connections with exceptional clinicians as well as other young faculty who are drawn to translational science," said Stephanie McCalla, assistant professor of chemical and biological engineering at Montana State University and a cohort member.

This program was supported by the National Center for Advancing Translational Sciences, National Institutes of Health, through Grant Number UL1TR000423.

[Links to bios and details of each cohort member's research focus are available in this spreadsheet.](#) Please visit the ITHS website to learn more about Rising Stars.

Montana State University-Billings will receive a \$91,000 grant for the upcoming school year. [More Here](#)

INDUSTRY NEWS

HELENA - Dava Newman (Photo: MIT) Posted: Apr 28, 2015 12:41 PM MDT
Updated: Apr 28, 2015 12:51 PM MDT **Helena native Dava Newman confirmed as NASA deputy**

administrator.

Dr. Dava Newman, a graduate of Capital High School in Helena, was unanimously confirmed by the U.S. Senate on Monday to be the new deputy administrator of the National Aeronautics & Space Administration. Newman has a bachelor's degree from Notre Dame. She also earned master's degree and Ph.D. from the Massachusetts Institute of Technology where she is currently a professor of Aeronautics, Astronautics and Engineering Systems. In 2007, her work was highlighted in Time magazine. "She developed a new space suit, known as the bio-suit to increase astronauts' agility and movements, allowing for astronauts to not only walk but also run and even climb mountains," said U.S. Senator Steve Daines (R-MT) while speaking about Newman on the Senate floor. Daines says Newman is a great example for Montana youth seeking careers in space and engineering. U.S. Senator Jon Tester (D-MT) said all Montanans can be proud of Newman's accomplishments. "Dava Newman will be a strong leader at NASA and play a major role in the future of engineering in this country," said Tester. "I thank her for her many years in the classroom inspiring young folks to launch a career in STEM." The MIT website says: Newman is a professor of aeronautics and astronautics and of engineering systems. On the MIT faculty since 1993, she directs the Institute's Technology and Policy Program and MIT Portugal.

Dr. Lee Hood's scientific wellness startup Arivale raises \$36M to improve health through genetics

A new startup in Seattle wants to be the Google or Microsoft of a new industry called scientific wellness, and now it has some serious cash to do so.

Co-founded by renowned genetics pioneer Dr. Lee Hood, Arivale today announced that it raised a \$36 million Series B round led by Arch Venture Partners and Polaris Partners, with participation from Maveron. Total funding for the company, which publicly launched last month in Seattle, now stands at almost \$40 million.

As we detailed in June, Arivale plans to blend comprehensive, cutting-edge genetic analysis with personal coaching - giving participants specific ways to take action to improve their overall health, meet their personal goals and minimize their long-term risk of disease.

The 19-person startup has spent the past year working with Hood's Institute for Systems Biology to pilot a scientific wellness program with a group of 107 people - the "pioneers," as the company calls them - who gave blood, urine and saliva samples at quarterly intervals, used fitness trackers, and talked regularly with a dietician who served as their coach, helping them understand their genetic tests and identify specific actions to take. [Read More Here](#)

BIO Praises House of Representatives for 21st Century Cures Legislation Passage

Washington, DC (July 10, 2015) - Today, the Biotechnology Industry Organization (BIO) issued the following statement regarding the 21st Century Cures Initiative legislation.

The following can be attributed to Jim Greenwood, BIO's President and CEO:

"We praise the House of Representatives for today's vote to pass 21st Century Cures legislation that recognizes the critical link between research, development and reimbursement to expedite the delivery of breakthrough treatments and cures to patients suffering from life-threatening and debilitating diseases. [Read More](#)

GlaxoSmithKline to open \$95M nonprofit cell research center in Seattle

Jul 1, 2015, 11:04am PDT

Yet another scientific research center will soon open in Seattle. British pharmaceutical company GlaxoSmithKline (NYSE: GSK) has announced it is opening a nonprofit cell research center called the Altius Institute for Biomedical Sciences to better understand how human genes function and use that research to accelerate the process of drug discovery. The 30,000-square-foot center will be at 2211 Elliott Ave., and will expand more in the future. About 40 to 80 people will work there, said John Stamatoyannopoulos, a professor of genome sciences and medicine at UW Medicine and who will be the president and scientific director of the center. GlaxoSmithKline is funding the center with \$95 million for its first five years, though the company says Altius will be entirely independent and have its

own management and board of directors. GSK has first rights to the institute's technologies, and Altius will likely produce spinout companies.[Read More](#)

EMPLOYMENT AND FUNDING OPPORTUNITIES

Check out our new funding opportunity (PAR-15-304) for the Clinical and Translational Science Awards program. CTSA-supported institutions work together to improve the Translational Research process to get more treatments to more patients more quickly.

The first set of applications are due Sept. 25, 2015. Learn more about this and other CTSA program funding opportunities: <http://1.usa.gov/1HXV9CR> PAR-15-304: Clinical and Translational Science Award (U54) NIH Funding Opportunities and Notices in the NIH Guide for Grants and Contracts: Clinical and Translational Science Award (U54) PAR-15-304. NCATS GRANTS.NIH.GOV

The Montana SBIR/STTR Matching Funds Program (MSMFP) is accepting applications for funding. Total match awards of \$60,000 are available. The Funding Guidelines can be found on the MSMFP website at <http://businessresources.mt.gov/msmfp>
If you have any questions about the MSMFP Guidelines, please contact Dave Desch at (406) 841-2759.

One of the best learning and networking opportunities in a decade for area entrepreneurs, small technology firms and start-ups will take place in Bozeman on **August 17th and 18th.**

The Greater Yellowstone Regional Entrepreneurship and SBIR/STTR

Summit <http://GYRES.mt.gov> is a two-day summit for innovators, entrepreneurs, researchers, and small business operators to meet with and learn from key leaders in government, industry, academia and the legal profession, who collectively support small business innovation and funding. Federal agency SBIR/STTR Program managers from the Air Force, Navy, Missile Defense Agency, USDA, DOE, Homeland Security, Transportation, EPA, NASA, NOAA, NIST and NSF will be presenting Tuesday morning and meeting individually with potential program applicants. These agencies make up the bulk of the \$2.5 billion annual small business set-aside SBIR/STTR programs, from which over 100 innovative Montana firms have won over \$175 million in non-dilutive capital. This is the first time in a decade such a federal contingent has been present in the region. A representative from the US Patent & Trade Office (USPTO) will also present. Their Bozeman stop is part of the national SBIR Road Tour. **Governor Steve Bullock will be the keynote speaker for the Tuesday luncheon.** Nationally recognized SBIR and federal contracting legal expert David Metzger will speak on "SBIR Data Rights: One Path to Wealth." For any small business CFO's and accounting professionals who want to work with federal contracting opportunities, the DCAA (Defense Contract Audit Agency) Small Business Program Manager, Sherry Kobus, and Ryan Mavin, DCAA Supervisory Auditor, will be leading six full hours of informational and training sessions. Additional information is available at <http://techlinkcenter.org/> Early registrants gain access to all of these great resources, along with breakfast, lunch, snacks and Monday evening social networking event, all for the registration fee of just \$40.00, thanks to generous sponsorships. More information and registration at: <http://GYRES.mt.gov>

WHAT'S HAPPENING?

BIO Fly-In

Sharon Peterson represented Montana at the 2015 BIO Fly-in in Washington DC. More than 300 biotechnology industry representatives from over 40 states, representing hundreds of thousands of American workers, participated in hundreds of meetings with Members of the House and Senate during the BIO Legislative Day Fly-In. Participants discussed issues critical to the biotechnology industry including, drug development, discovery and delivery reforms, targeting abuses of the U.S. patent system while protecting innovation, providing adequate reimbursement for vital therapies under Medicare, FDA funding, tax policy, and capital formation issues relevant to biotechnology companies.

BIO also honored Senator Chris Coons (D-DE), Representative John Conyers, Jr. (D-MI), Senator Pat Toomey (R-PA), and Representative Leonard Lance (R-NJ) as Legislators of the Year for 2015. They received awards in conjunction with BIO's Legislative Day Fly-In.

Annual Chicks in Science event cosponsored by Montana BioScience Alliance was highly successful!The eighth annual extravaganza aims to crack stereotypes on STEM careers for girls. MSU BILLINGS NEWS SERVICES - STEM education was the highlight of an all-girls event held on April 25 at Montana State University Billings, where grade and middle school girls received a taste of what science, technology, engineering and mathematics have to offer. Chicks in Science is a one-day science and technology extravaganza that provides hands-on and minds-on interactive activities to introduce girls in grades 4 through 8 to various careers in STEM-related fields. It is free and open to the public, but is especially designed for young girls. The eighth annual event ran from 11 a.m. to 4:30 p.m. in the Alterowitz Gymnasium at MSUB's four-year campus. "Chicks in Science works to breach the psychological barriers, gender expectations and the 'coolness' factors that can stop girls from entering STEM-related fields," Laura Gittings-Carlson, MSUB Extended Campus continuing education program developer, said. "The event strives to abolish those negative and fearful attitudes about math and science and discredit the stereotype of the 'nerdy' scientist. What started with a few hundred participants in its first year, the STEM extravaganza now attracts more than 2,000 people, including 250 volunteers and 50 interactive exhibits set up to engage and pique girls' interest in fields of STEM. "The event is all about cultivating an interest in STEM among young girls and employing promising practices for the future," Gittings-Carlson said. "We are helping shape the next generation science standards." [Watch Video Here](#)



Montana State and Montana BioScience Alliance exhibited at and participated in the 2015 BIO International Convention, where the global biotech community meets, connecting the people, companies and innovations that help to fulfill the promise of biotechnology through healing, fueling and feeding the world concluded on June 18 2015 in Philadelphia PA. The Convention featured dynamic keynotes from legendary journalist Tom Brokaw, leading digital health expert Eric Topol and internationally acclaimed jazz musician Wynton Marsalis. Educational programming included over 750 speakers and 125 sessions in 16 educational tracks which addressed the latest business opportunities, breakthroughs in medicine, diagnostics, the environment, energy production, food and agriculture and more. For session highlights and editorial, visit www.biotech-now.org/ John Rogers, Andy Shirtliff and Dan Lloyd, Governor's office of Economic Development, Meg Oleary, Director, Montana Department of Commerce and Sharon Peterson from the Montana BioScience Alliance set up and manned the booth. It was great to see so many Montana companies at the convention- Microbion, Golden Helix, Saje Pharma, Montana Molecular, Avitus Group and others. In addition many graduates from MSU and U of M visited the booth. Love to see their pride in Montana Higher Ed.

During the Convention Battelle and BIO report was released.

Andy Shirtliff, Dan Lloyd, Sharon Peterson at BIO

New Research Shows Growing Industry-Academic Ties in Advancing New Medicines to Improve Patient Lives

June 16, 2015

Philadelphia, PA (June 16, 2015) - The Biotechnology Industry Organization (BIO) and Battelle's Technology Partnership Practice today released a report highlighting the growing and essential nature of industry-academic collaborations that bridge the gap between bioscience discoveries and the delivery of innovative products to improve medical outcomes in patients.

The study was presented at the 2015 BIO International Convention, as part of the Translational Research Forum, where industry and academic thought leaders explore ways to overcome stagnating government funding for both basic biomedical research and early-stage technologies struggling to cross the 'valley of death.'

"This report demonstrates the contribution of industry and academic partners across the four stages that all translational research must pass through in bringing new treatments to patients - basic research, technology development, clinical trials, and new product launch," stated Mitch Horowitz, Vice President at Battelle. "[Read More Here](#)

[Report Available Here](#)

Montana BioScience members participated in LIFE SCIENCE INNOVATION NORTHWEST June 30 & July 1, 2015 |Washington State Convention Center, Seattle

North America's Largest Fully-Integrated Life Science Exposition: Life Science Innovation Northwest connects world-class industry leaders and showcases the Pacific Northwest as a global center for life science advancement. Tom Brown and Jon Nagy presented posters. Sharon Peterson served on the steering committee and facilitated one session.

EVENT'S CALENDAR

[Arizona](#) * [Colorado](#) * [Montana](#) * [New Mexico](#) * [Utah](#)

Opening Night Reception - September 23

Full Day Conference - September 24

Vail Marriott Lionshead Village

Vail, CO 81657

See the future of healthcare-and your role in shaping it-at the 4th Biennial Rocky Mountain Life Science Investor and Partnering Conference. We're bringing together leading investors, emerging companies and senior executives to cultivate partnerships within our industry. The Rocky Mountain region is the largest and most advanced area between both coasts, with Colorado ranking in the top 10 among states for venture capital investment in the life sciences, garnering more than \$1.2 billion dollars in financings and investments from 2011-2013.

BIO 2016 - June 6-9, 2016 - Moscone Center, San Francisco, California

The global event for biotechnology returns to the birthplace of biotech, San Francisco, California. The region continues to grow and advance biomedical innovation while continuing to offer programs and services to support to bring new medical advances to patients. Imagine all of the powerful partnerships when these powerful communities of innovation come together - mark your calendar today!

CLASSIFIEDS



BIO Business Solutions - Delivering savings to biotech companies
Thousands of biotech and related companies nationwide save money every day on essential products and services through an excellent cost-savings program offered by the Biotechnology Industry Organization (BIO), the international organization that represents the biotechnology industry. Through its partnership with BIO, Montana Bio offers its members the opportunity to take advantage of several of the organization's BIO Business Solutions programs. These include:

- * [Business insurance](#) (clinical trials, product, property & casualty) from the Chubb Group of Insurance Companies
- * Packaged (cylinder) mini-bulk and bulk gasses from Linde
- * [Secure Document](#) sharing and virtual data from ShareVault
- * [Moving and relocation](#) services from Humboldt
- * [Laboratory Supplies, Equipment and Chemicals](#) from VWR
- * [Risk Solutions, Executive Liability Insurance](#) from AON
- * [Office Supplies](#), Furniture, Equipment and Technology Products/Design, Print and Ship Services from Office Depot
- * [Environmental Services](#) Environmental Services from Clean Harbors
- * Shipping Services and Deep Frozen Shipping Solutions from FedEx
- * [Publications and Data Base](#) Informa
- * [News and Business Information](#) and Multi Media Distribution from Business Wire

For more information on these excellent cost-savings programs, please visit <http://bbs.bio.org/content/montana-bioscience-alliance-mba>



www.montanabio.org

The Montana Bioscience Alliance serves as a hub for Montana's biotechnology companies, entrepreneurs, laboratories, hospitals, clinics and universities to commercialize, grow and sustain globally competitive bioscience companies -- ultimately to create high-quality jobs and economic opportunity in Montana.

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