

BIO SCIENCE

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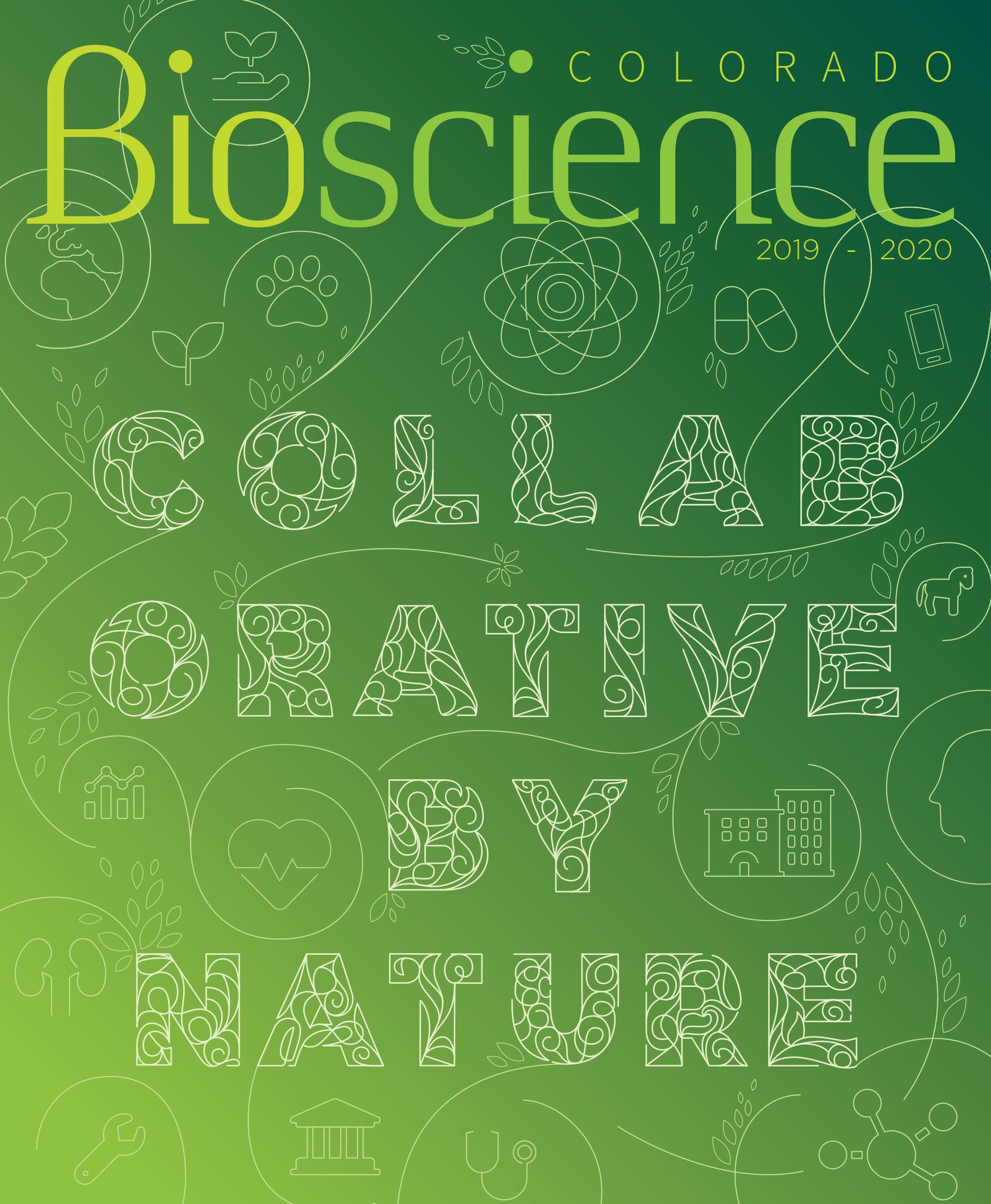
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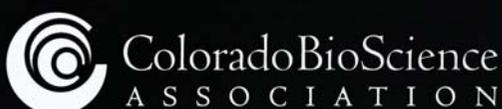
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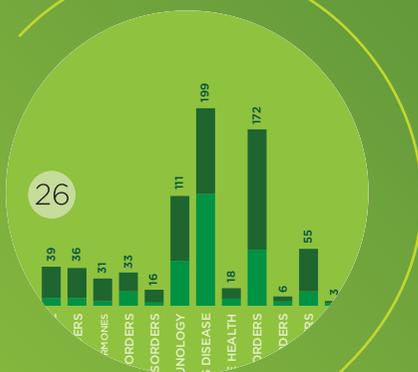
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Welcome to the 16th Annual *Bioscience Colorado* magazine. This is the premier publication for the Colorado bioscience industry. Last year's edition reached more than 9,000 readers, including online impressions. This publication is one of the industry's greatest voices – locally, nationally and internationally.

We're proud to work with our partners, across the state and nationally. We know innovation and advancement doesn't happen without collaboration, and Colorado has demonstrated we are particularly good at boosting each other to positions where we all succeed. There is something different about Colorado. It's more than our beautiful natural surroundings and abundant sunshine. It goes beyond our favorable business climate and talented workforce. In Colorado, companies and organizations share a commitment to working together and helping each other solve business challenges. This issue highlights many of our accomplishments that have been built on combined strengths.

For the Colorado BioScience Association—and our entire community—it begins and ends with the patient. In these pages we look at how those patients are influencing the entire process of product development from the first stages of innovation. We're engaging patients as partners in research and development, and showing incredible results with their input. We also explore the links between the various institutions and the brilliant minds they host. Colorado is home to exceptional leaders in their respective fields. When they collaborate, combined with the support of both new and established institutions, breakthroughs happen. If our community sees a challenge, we bond together to address it.



You will find that in the unique approaches industry is innovating to address pain management beyond the traditional prescriptions. The problem is too large for any one person to solve. But, working together, Colorado is pioneering unique solutions that are improving lives. We also recognize a few exceptional individuals in our Rising Star profiles, while celebrating the networks and mentors they have used to climb to their current elevation.

Colorado's life science companies raised \$1 billion in 2018! We are only able to tout our successes through the strength of the entire industry. We are proud of our sector's continued advancement with another year of successful financing. Colorado BioScience Association works actively to accelerate investment in the state's bioscience companies and will continue to work closely with our public and private partners to increase the industry's access to capital. As new companies, fresh investments, and industry leaders grow here in Colorado, there will be additional opportunities for everyone. We're ready to work with all.

It's in our nature.

A handwritten signature in black ink that reads "Jennifer Jones Paton".

Jennifer Jones Paton
President and CEO, Colorado BioScience Association



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COLLABORATIVE BY NATURE

WRITTEN BY MARK CRAWFORD
WITH CONTRIBUTIONS FROM
PRIMAVERA GROUP

A DYNAMIC BUSINESS CLIMATE. World-class academic and research institutions. An educated, motivated workforce. A supportive bioscience ecosystem with a shared commitment to medical breakthroughs for patients. Multiple factors contribute to Colorado's reputation as an exceptional place to launch, grow, relocate, or commercialize a life science company.

For many life science innovators and researchers, the biggest draw is Colorado's culture of collaboration. Companies, organizations and research institutions share a commitment to working together to solve healthcare challenges and create medical breakthroughs for patients.



BRIGHT, PASSIONATE PEOPLE

Our state attracts leading talent from around the globe and boasts a dedicated, skilled workforce. With three nationally ranked bioscience graduate programs, Colorado ranks 2nd in educational attainment in the U.S. and 5th in the U.S. for the number of scientists and engineers as a share of all occupations.

ACCELERATING CANCER RESEARCH

Sharing resources, talent, and expertise expedites the pace of discovery, pushes development, and delivers life-saving products to patients in need much more quickly. For many of these reasons, Children's Hospital Colorado and the University of Colorado School of Medicine attracted one of the country's leading cancer researchers, Dr. Terry J. Fry, co-director of the Human Immunology and Immunotherapy Initiative and director of Cancer Immunotherapy at the University of Colorado School of Medicine.

Dr. Fry was excited to join the team, saying, "one reason I came to Colorado was that I would be collaborating with outstanding scientists doing good science in this field, and not just trials. We have strong groups studying immunology at large academic institutions in Colorado. Biotech spinoffs from the university have experience in immunology and immunotherapy, and plenty of great biotech talent graduates every year. These assets make Colorado an ideal place to partner with others to solve immunologic challenges, such as developing CAR-T cell therapies to fight cancer."



WORLD-CLASS RESEARCH AND INFRASTRUCTURE

From achieving critical mass in a fast-growing field to making discoveries with potential for rapid commercialization, bringing researchers, clinicians and business leaders together with infrastructure designed for innovation optimizes outcomes for patients.

ADVANCING HEALTH WITH ORGAN AND TISSUE REPLACEMENT

Collaboration is one of the four strategic drivers of a world-class, multi-institutional center headquartered on the University of Colorado Anschutz Medical campus, the Gates Center for Regenerative Medicine. From treating painful skin conditions in children with induced pluripotent (iPS) cells to using stem cells to improving quality of life for injured people and their pets, Colorado boasts intense activity in the field of regenerative medicine.

A team of researchers from the Gates Center recently developed an improved method for reprogramming diseased skin cells into iPS stem cells that it is sharing with researchers on and off-campus— an important step toward

developing potential cures for certain illnesses. Eager to move the technology into clinical trials, the Colorado team is leading a partnership with Stanford University and Columbia University to advance this research.

The Gates Biomanufacturing Facility, affiliated with the Gates Center, is a campus-wide partnership that includes the University of Colorado School of Medicine, Children’s Hospital of Colorado, UHealth, and the Gates Frontiers Fund. It is one of only six combined cell therapy and protein manufacturing facilities in the U.S. and is focused on collaborating with its clients to accelerate the translation of their lab discoveries into human clinical trials as efficiently and cost effectively as possible. In 2018, the facility manufactured its first clinical trial-grade product for direct infusion into myeloma patients, to be carried out by a private research firm.



 Gates Center for Regenerative Medicine
UNIVERSITY OF COLORADO ANSCHUTZ MEDICAL CAMPUS

BUILDING FOR MEDICAL INNOVATION

Fitzsimons Innovation Community counts the Gates Biomanufacturing Facility as one of its 75 tenants in a community built to foster breakthroughs. “The Fitzsimons Innovation Community is built on the value of collaboration. With an integrated community of startup, growth and commercial companies, academic research groups and partners on campus with clinical and technical expertise, partnerships are ingrained in the environment. With two million outpatient visits annually, 25,000 employees and more than 4,500 students, we can really do anything on this campus.” says Steve VanNurden, president and CEO of Fitzsimons Innovation Community.

The companies within Fitzsimons Innovation Community enjoy access to valuable clinical trial programs through major healthcare providers at the adjacent University of Colorado Anschutz Medical Campus, including UHealth, Children’s Hospital Colorado, and the VA Eastern Colorado Health Care System.

Tenant Ventria Bioscience was able to take advantage of this collaborative environment when they discovered a novel method for making beneficial proteins, called ExpressTec. This process allows for large-scale and affordable production of these unique molecules. Ventria collaborated with Edwin de Zoeten, MD, associate professor of pediatrics and director of the Pediatric Inflammatory Bowel Disease Center at Children’s Hospital Colorado, to apply this process to the protein recombinant lactoferrin. Working together, they discovered that this protein can help regulate immune cells by skewing the immune cell population toward an anti-inflammatory population. “Our next step is to confirm this in human clinical studies, which is under way,” says Scott Deeter, president and CEO of Ventria Bioscience. “If this proves effective in humans, it will be a novel therapeutic for inflammatory bowel disease. Without Dr. de Zoeten’s tenacity and expertise, and the ease of working together for a common purpose to improve patient outcomes, we would not have made this discovery.”

Anschutz Medical CAMPUS

Fitzsimons Innovation COMMUNITY



FORT COLLINS

Innosphere

Colorado State University

CSU College of Veterinary Medicine and Biomedical Sciences

UC Health North Research

PARTNERSHIPS AMONG UNIVERSITIES, HOSPITALS, AND INDUSTRY

Cross-disciplinary collaborative research is thriving across Colorado, with strong partnerships among academic and research institutions, hospitals, and incubators throughout the state.

DEEPENING CONNECTIONS IN NORTHERN COLORADO

Collaboration is on the rise in northern Colorado for several reasons, notes Dr. Gary Luckasen, an MD and cardiologist at UHealth, medical director for UHealth North Research, and principal investigator for multiple collaborative projects with Colorado State University and UHealth. “Business support through Innosphere and CSU Ventures and increased research focus by UHealth are the key drivers,” he says. “There is also an increased frequency of collaborative research between industry—especially biotech—and UHealth, Colorado State University, The University of Colorado School of Medicine, and the CSU College of Veterinary Medicine and Biomedical Sciences.”

Forging collaborations across disciplines can lead to exciting outcomes such as the 2018 Zoobiquity Colorado conference that was co-hosted by the Gates Center for Regenerative Medicine at the University of Colorado Anschutz Medical Campus and CSU College of Veterinary Medicine and Biomedical Sciences. The institutions brought clinicians, scientists, patients and the public together to explore healthcare possibilities emerging from the intersection of human and veterinary medicine.

Innosphere, an incubator in Fort Collins, provides support to its high-tech startups and scaleup client companies by fostering collaboration among its tenants and strategic partners. Innosphere client companies and CSU faculty members run trials and develop projects with research teams at UHealth. New Innosphere companies are connected to experienced advisors and corporate partners to accelerate their growth. “Out-of-state organizations and researchers are coming to Colorado to take advantage of our cutting-edge infrastructure,” says Walker. “Also, with the opening of the Translational Medicine Institute at Colorado State University, our community will have more opportunities to support research on both the veterinary and human side.”

The Translational Medicine Institute will draw on established areas of CSU research expertise in orthopedics, biomedical engineering, immunology, infectious disease, surgical advances and other medical fields. The Institute will also bring together educators and innovators from academia, industry, public agencies, and other entities to pursue development of promising medical technologies, with special attention to those with potential for commercialization.

BIOSCIENCE PROFILES

Rich Kelleman puts together a dream team to make the pet food of the future

Rich Kelleman, founder and CEO of Bond Pet Foods™, has a revolutionary vision for pet food: complete nutrition, which requires animal protein—but without slaughtering animals.

“Harming one animal to feed another seems grossly inhumane and inefficient,” Kelleman explains.

After hearing about research on meat grown through cell culture, he reached out directly to the people involved. “The more I learned, the more sense it made to apply that concept to pet food.”

At the time, he was working in advertising, which coincidentally inspired his quest—a fast food account exposed him to the environmental impacts and inhumane conditions of modern livestock agriculture. Despite being new to biotech, he built a seasoned team of scientists, veterinarians, and other advisors to execute his vision.

“It took some persistence to find people willing to work on such a new concept,” he says. “But that means everyone at Bond is excited about the opportunity to do something really different.”

After months of evaluation, Bond landed on expressing chicken skeletal muscle protein in microbes, which are scalable and don’t require animal-derived growth factors.

Their feasibility experiments were facilitated by resources here in Colorado. Bond has lab space at the Fitzsimons Innovation Community at University of Colorado Anschutz Medical Campus, with whom they connected through the help of Colorado BioScience Association.

Bond recently won the Purina Pet Care Innovation Prize and now has the funding to support continued R&D. Kelleman’s marketing background also has them looking ahead to broadening public appeal.

“We just went to a heritage chicken farm to collect DNA,” he says. “Telling the full story behind our process will help people embrace this new way to food.”



THE INSTITUTE COLORADO BIOSCIENCE

The Colorado BioScience Institute provides education, workforce and career development for life science professionals, companies, students and educators related to the bioscience industry in Colorado.

The Institute programs work to serve the entire talent pipeline from middle and high school teachers and students through C-level executives.

Learn more about our programs and how to get involved.

cobioinstitute.org



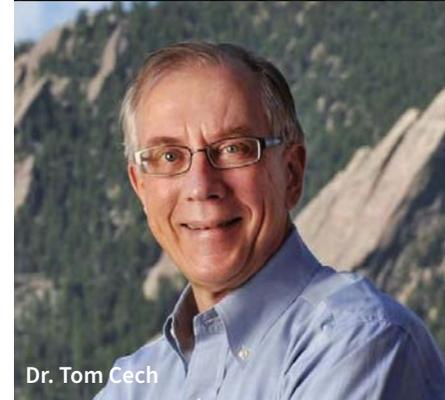
FOSTERING SCIENTIFIC BREAKTHROUGHS AT THE UNIVERSITY OF COLORADO

At the University of Colorado-Boulder, the BioFrontiers Institute fosters cross-disciplinary research across eleven academic departments. BioFrontiers Institute is led by Nobel Laureate Dr. Tom Cech and Chief Scientific Officer Dr. Leslie Leinwand. It was founded on the premise that great research triumphs are the product of interdisciplinary inquiry and collaboration. This unique program trains the next generation of leaders, laying the foundation for bioscience advances. The ALSAM Foundation recently provided \$2 million in grants to foster collaborative research between the BioFrontiers Institute and the University of Colorado Skaggs School of Pharmacy and Pharmaceutical Sciences (SSPPS). The goal is to assist cross-disciplinary research among pharmaceutical scientists at the SSPPS and the interdisciplinary bioscientists at the BioFrontiers Institute.

“This program will stimulate our BioFrontiers faculty and students to work with our SSPPS colleagues at Anschutz to develop new therapeutics in the areas of cancer, muscle disease, and diabetes,” said Dr. Cech.



Dr. Leslie Leinwand



Dr. Tom Cech

WORKING TOGETHER FOR BETTER LIVES

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COMMERCIALIZATION OPPORTUNITIES

CU Innovations, the tech-transfer office of the University of Colorado Anschutz Medical Campus, actively pursues partnerships, be it with industry, other academic centers, non-governmental organizations or public institutions, to facilitate translation of groundbreaking academic discoveries to patients' use.

Sometimes these partnerships start early on with sponsored research arrangements which might lead to the development of clinical candidates and intellectual property. This was the case with GSK.

TRANSLATING DISCOVERIES INTO IMPACT

In the fall of 2018, University of Colorado Anschutz Medical Campus and GlaxoSmithKline (GSK), joined forces to advance immunotherapies for cancer, with a special focus on checkpoint inhibitors, which have shown promise in clinical trials.

Dr. Richard Schulick and Dr. Yuwen Zhu of Anschutz Medical Campus recently identified a series of novel checkpoint inhibitors, which may have the potential to promote anticancer responses in cancer patients.

CU Innovations recognized the commercial potential in the discovery and worked to find a pharmaceutical partner to further develop this technology. They decided that GSK's Discovery Partnership with Academia was an excellent fit for developing this collaborative research and reached out to the pharmaceutical giant. "GlaxoSmithKline brings world-class pharmaceutical expertise on-board to the Anschutz Medical Campus," indicates Brian Bellesheim, business development manager at CU Innovations. "They have the right mix of resources and scientific focus to develop new cancer treatments, and the right approach to working with academia, with a commitment to finding cures for disease, in a collaborative fashion."

CU Innovations not only partners with pharmaceutical companies, but also works with local

startups to identify technical experts among the faculty to help with their product development. Similarly, it facilitates access to the wealth of knowledge on the campus for multinational companies. CU Innovations Executive Director Kimberly Muller underscores the ambitious vision for her office. "We do not want to be a traditional technology transfer office, we want to be the engine of innovation bringing best practices and resources to leverage the exciting research taking place on the campus and create broader economic and health impact."

University of Colorado Anschutz Medical Campus Chancellor Don Elliman sees great potential in developing more academia-industry collaborations and deepening university ties with industry to translate academic discoveries into services and products that will transform healthcare.

"Our cutting-edge science is opening the doors for broader academia-industry collaboration," says Elliman. "We are confident that bringing our world-class researchers together with premier life science leaders will only lead to many more positive impacts."

Colorado's reputation as a center for collaborative research, innovation, and commercialization continues to grow. In response, an increasing number of life science companies and investors will locate in Colorado to take advantage of our collaborative nature and work with some of the best scientists in the country. ©



BIOSCIENCE PROFILES

Amy Galliher-Beckley goes straight to consumers with over-the-counter ovulation test

Most startups seek venture funding for a concept, but MFB Fertility, founded and led by Amy Galliher-Beckley, PhD, already has a product on the market, Proov™. MFB's at-home ovulation confirmation test, is currently sold on Amazon, with initial development and FDA registration supported by crowdfunding.



Her product's unusual route to commercialization results from Galliher-Beckley's incredible commitment to getting the test to consumers as quickly as possible—in less than a year after creating the prototype. She knew its value from her own experience of multiple miscarriages and undergoing IVF to have her first child.

"Because of my background in endocrinology, I guessed that my issue might be low progesterone. When progesterone supplements helped me conceive, I realized it would be great if women could track their own progesterone levels."

Even today, Galliher-Beckley stays motivated by interacting with consumers.

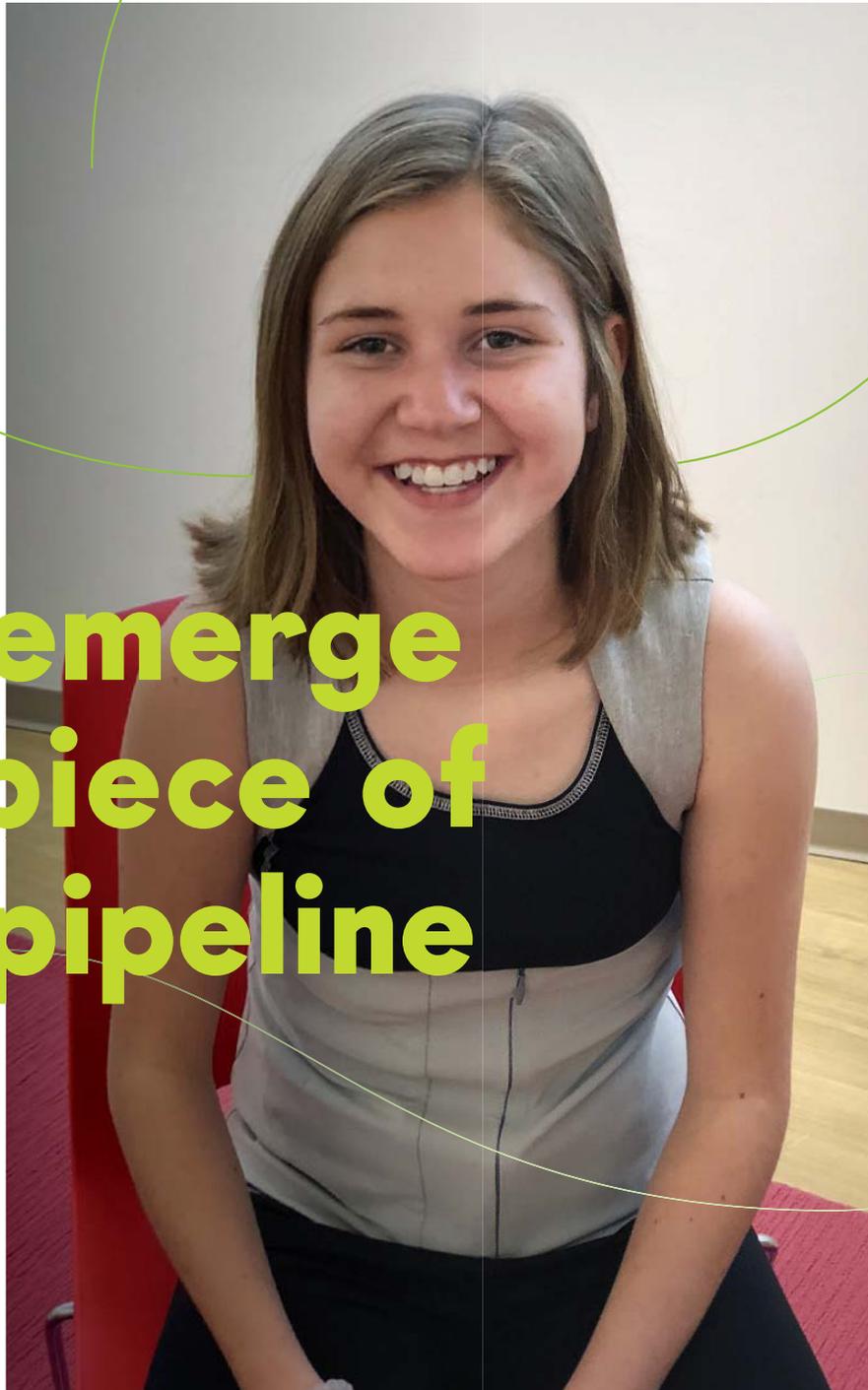
"I love hearing about how Proov has helped people take control of their fertility and avoid the struggles I went through," she says. "I want to get these tests in the hands of all the parents-to-be who would benefit from them and develop new products that would make fertility tracking even easier."

Access to capital and collaborative partnerships are important to MFB. MFB's efforts in seeking capital have been supported by the Colorado BioScience Association (CBSA). MFB took advantage of CBSA's state supported grant which resulted in Galliher-Beckley's attendance at various investor conferences throughout the U.S. Those efforts ultimately led to crucial seed funding and a connection with a startup accelerator.

Galliher-Beckley continues to travel to tell people about her product. MFB recently presented Proov at SXSW to win the Startup of the Year competition there.

For Galliher-Beckley, this work is a mission to change how healthcare treats fertility. "It shouldn't be a luxury."

Patients emerge as vital piece of product pipeline



Anna Bowman of Virginia wears Green Sun Medical's Dynamic Brace. The company solicited the input of Anna and other patients that will encourage them to wear the brace as many hours as possible.

Replenishing the world's blood supply relies on donors, especially those who make repeat donations.



WRITTEN BY TYLER SMITH

IN OCTOBER 2017, ANNA BOWMAN CAME OUT OF HER SHELL.

It wasn't a matter of shedding shyness for the now 15-year-old from Winchester, Virginia. Rather, she set aside what she calls a physical "shell" – a rigid back brace she had worn for more than a year to correct her adolescent idiopathic scoliosis: severe spinal curvature with no known cause.

Without a brace, Anna was likely to face painful and expensive back surgery. Searching for the best device, her parents connected with the National Scoliosis Center and Luke Stikeleather, one of the few orthotists in the nation trained to construct the European-designed Rigo-Chêneau brace that they ultimately chose.

Braces work: one study showed that roughly 90 percent of scoliosis patients who wear them at least 13 hours a day avoid surgery. Anna felt

"positive" about her brace, so much so that she wore it 22 hours a day, seven days a week. But she also discovered why plastic back braces, which haven't changed much in nearly a half-century, don't encourage regular use.

"Bending down was hard; so was moving back, and side to side," Anna said. Sitting through a movie in the rigid brace was impossible. She couldn't bend over to pick up a dropped pencil. The brace rubbed against and irritated her skin. A special shirt she had to wear under it made Virginia summer days especially uncomfortable.

Then, in the fall of 2017, an alternative emerged. Stikeleather informed the Bowmans that Fort Collins, Colorado-based Green Sun Medical, LLC had developed a new brace.

Green Sun Medical's Dynamic Brace, now in a National Scoliosis Center-sponsored clinical trial,

is an elastic ring system with modular parts that can be tailored to each patient and adjusted to deliver focused corrective pressure to the spine over a period of time. Sensors also record how many hours patients wear the brace.

In developing the device, Green Sun Medical's leadership drew on another resource: the insights of Anna and other young patients who pinpointed necessary changes if they were to wear the brace faithfully.

The youthful input was a necessity, said Green Sun Medical's Chief Technical Officer Matt Thompson, a biomechanical engineer.

"The patient has the option to put the device on or not," Thompson said. "I can make the most amazing device in the world but if the patient doesn't use it, it might as well be in the dumpster."



Anna Bowman
of Virginia

Green Sun Medical and other innovative life science companies in Colorado recognize the necessity of incorporating patient input in the development and design of their products. And they're not alone. The influential journal Health Affairs declared patient engagement "the blockbuster drug" of the twenty-first century, noting the evidence-based view that involving patients in their care often leads to better outcomes.

In recent years, there has been a shift in how drug and device companies engage patients and look to them as partners in research and development. The value of patient input is reflected at the FDA through initiatives like Patient-Focused Drug Development and the Patient Preference Initiative launched through FDA's Center for Devices and Radiological Health. Successful legislative proposals like the 21st Century Cures Act also emphasize the need for patient engagement, with provisions designed to define and standardize the use of patient experience data in regulatory decision making.

Green Sun Medical CEO Jamie Haggard said the company quickly realized that getting input about the brace from those who would wear it was a must.

"We told them, 'If you're too nice we're not going to be able to help you. We need to know everything that's wrong [with the brace], even the littlest things.'"

**- JAMIE HAGGARD, CEO,
GREEN SUN MEDICAL, LLC**

"There is no doubt that biomechanically we have a brace that is going to knock it out of the park for 80 percent of these kids," he said. But biomechanics alone wouldn't ensure success with 10- to 14-year-old girls, who are about seven times more likely than boys to have scoliosis.

"We wanted to find out what they didn't like about the brace – what would make them take it off," Haggard said. "We told them, 'If you're too nice we're not going to be able to help you. We need to know everything that's

wrong [with the brace], even the littlest things."

Anna Bowman liked that the Dynamic Brace made it easier to move, but she had plenty of suggestions for improvement. The first version took too long to put on, she told Haggard and Thompson, and it had three thick, uncomfortable layers. It had a fin-like part that poked out in back. The brace pinched her ribs and hips when she sat down. A shirt over the brace went up to the neck, an invitation to unwelcome questions.

"I didn't want anyone saying, 'Hey, what's that?'" Anna said.

"Patients don't want anyone to know they're wearing a brace," Thompson acknowledged. The company went back to the drawing board and addressed those issues with fixes like additional padding on the brace rings, thinner fabric and more. "It's now less obvious than a thin plastic brace," Thompson said.

Incorporating a patient or consumer viewpoint is also vital to industry problem solving. On a mid-February morning, a lifesaving operation quietly hummed in an unlikely space: an office building in the shadow of the foothills over Golden, Colorado.

Blood donors lay comfortably in recliners at the Vitalant™ Denver West donation center, one of the organization's eight blood-collection facilities in Colorado. Hospitals and other providers depend on these donors to meet shifting demand for precious blood supplies.

"Having enough blood products to go around is a constant battle," said Liz Lambert, a marketing and communications specialist for Vitalant. She noted that in Colorado, Vitalant's base of apheresis donors – those who supply red blood cells, platelets and plasma separated from blood that is then returned to their bodies – has hovered for several years at around 3,100. Donors of platelets,

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Abby Wright gets cancer patients access to cutting-edge diagnostic tests

Abby Wright, Senior Director of Reimbursement at Biodesix, Inc., finds her job—negotiating with health plans to get the company’s tests covered—highly meaningful.



“My work makes our tests available to lung cancer patients who need them,” Wright says. “That can get them on the right treatment much faster than would otherwise be possible or spare them unnecessary worry. I can’t imagine a more rewarding career.”

Biodesix offers three innovative, rapid blood-based tests that identify actionable lung tumor mutations, measure the immune response to lung tumors, and distinguish benign from potentially cancerous lung nodules, respectively.

“We present clinical data to Medicaid, Medicare, and major insurers showing that Biodesix’s tests improve outcomes and reduce the overall cost of care,” says Wright. “That can be really challenging because the treatment landscape and standards are always changing.”

In Wright’s six and a half years at Biodesix, she’s led the team that secured coverage for VeriStrat®, the proteomic immune response test, and oversaw the three-year planning and execution of bringing billing in-house, including the research to show that it would improve revenue.

She credits her success to a combination of her initiative—taking every opportunity to learn and contribute—and great mentors, both within the company and in the Colorado bioscience community.

“Biodesix’s involvement with CBSA has opened a lot of doors,” says Wright. “Through Colorado BioScience Institute’s Executive Leadership Program, I was assigned a mentor who has founded and run multiple biotech companies, and he and the program director have provided really insightful, constructive advice.”



Lakewood-based Terumo BCT’s Trima Accel®, an apheresis system designed to improve efficiency and donor comfort.

which have a shelf life of only five days, make up less than 5 percent of the overall donor base.

It’s therefore vital that blood centers retain dedicated donors, said Michelle Marks, Director of Global Product Marketing for Lakewood, Colorado-based Terumo BCT, Inc., whose portfolio of products includes automated blood collection systems. “Repeat donation is extremely important,” she said. “We wouldn’t be able to provide a lot of blood products without donors.”

Enter Terumo BCT’s Trima Accel®, which handles roughly half of all apheresis donations worldwide,

During product development, engineering and business design specialists routinely visit customers and play “fly on the wall” to understand their needs.

- TOM FELT, VP OF NEW PRODUCT DEVELOPMENT, TERUMO BCT

according to Christine Romero, corporate communications specialist for Terumo BCT. The company’s next-generation version, Trima Accel 7®, slated for release in the United States later this year, will include software and hardware improvements that aim to make blood collection more efficient and inviting for donors.

Terumo BCT centers its design philosophy on the Japanese concept of “gemba,” roughly translated as “the real place,” said the company’s Vice

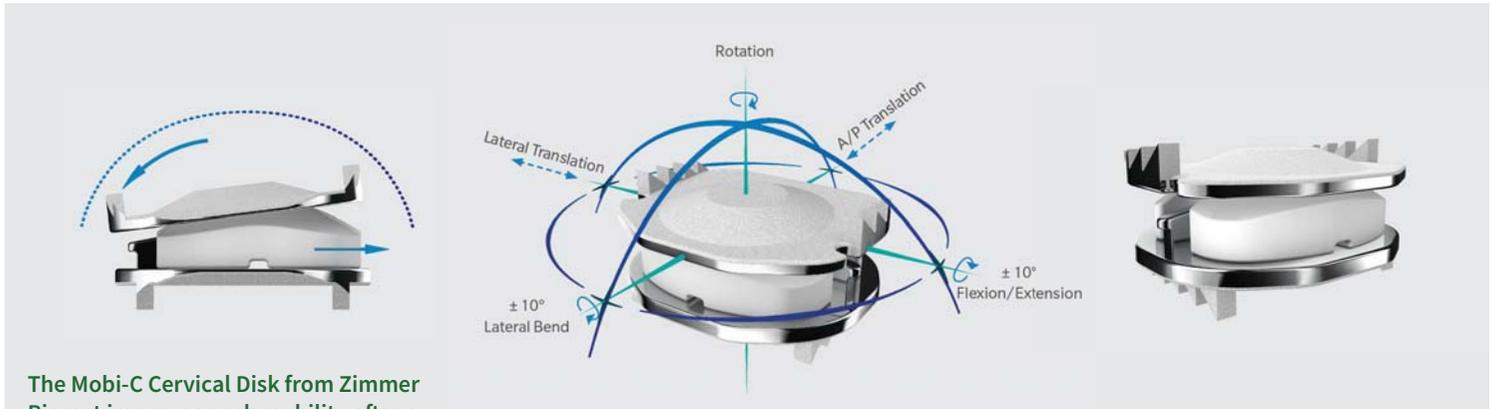


President of New Product Ideation, Tom Felt. During product development, engineering and business design specialists routinely visit customers and play the “fly on the wall,” as he put it, to understand their needs.

Feedback from blood centers helped Terumo BCT tweak the Trima Accel 7. During testing in Asia, for example, donors and techs told developers that an earlier version of the system better suited the larger veins of Western donors than their counterparts in Japan and China. The machine pulled blood too quickly from Asian donors, triggering machine alarms and donor consternation.

“That was a big ‘eureka,’” Felt said. An added feature now allows technicians to customize blood flow based on each donor’s height, weight and vein access, reducing the number of alarms by half. Another fix shortened the machine reset time between donors – a key improvement in busy centers.

Zimmer Biomet, whose Spine Division headquarters in Westminster, Colorado, also improved its biomedical technology by listening to patient concerns. The company’s FDA-approved Mobi-C® Cervical Disc is an alternative to anterior cervical discectomy and fusion (ACDF) to treat degeneration of the rubbery discs that cushion vertebrae in the upper and lower spine. When discs



The Mobi-C Cervical Disk from Zimmer Biomet improves neck mobility after a discectomy, a key patient concern.

fail, the space between the vertebrae narrows, compressing nerves and causing pain that often radiates from the spine to the extremities.

In ACDF, surgeons remove the diseased disc, restore the space between the vertebrae and fuse the bones. That alleviates nerve pain but limits the patient’s neck mobility and transfers stress to the adjacent vertebrae, which may lead to subsequent surgeries, said Zimmer Biomet Director of Strategic Communications Mark Richards.

Richards called ACDF an “established technology” that satisfies most surgeons, but patients delivered a different message. “Patients want to reduce their pain, but not at the cost of mobility,” he said. “They also don’t want to be back for another surgery.”

Those problems spurred the Mobi-C’s development. As in ACDF, surgeons decompress the nerves, but instead of fusing the vertebrae, they insert an artificial disc with a mobile bearing that allows natural motion in the neck and reduces stress between the implant and the bone.



Alleviating pain is the number one goal, but a secondary goal...is to respect the natural physiology and restore quality of life and the activities of daily living.

- MARK RICHARDS, DIRECTOR OF STRATEGIC COMMUNICATIONS, ZIMMER BIOMET

“Alleviating [patients’] pain is the number-one goal, but a secondary goal, which I think has been overlooked in ACDF, is to respect the natural physiology and restore quality of life and the activities of daily living,” Richards noted.

Silvergate Pharmaceuticals, Inc., based in Greenwood Village, Colorado, customizes products to fill a

smaller market niche – literally. The company markets three FDA-approved drugs for pediatric patients (two for high blood pressure and another that treats both acute lymphoblastic leukemia and polyarticular idiopathic juvenile arthritis).

The medications, which repurpose molecules already used in adult medications, don’t require compounding by pharmacists, which involves, for example, crushing tablets and combining the powder with a liquid. “The compounded drugs can taste terrible or require injection,” said Silvergate Pharmaceuticals CEO Frank Segrave. In addition, the compounding process may differ from pharmacy to pharmacy, a concern for caregivers administering the medications.

Silvergate Pharmaceuticals developed kid-friendly, sweet-tasting liquid medications that caregivers can dose reliably by body weight. Most

Silvergate Pharmaceutical, Inc. develops pediatric versions of adult medications that make it easier for caregivers to administer and kids to take.

importantly, they meet the needs of patients with limited ability to speak for themselves.

“Kids aren’t just different-size patients, they’re really different individuals in the way their bodies have evolved and developed,” Segrave said. “It’s ridiculous to think that a patient who is two months old will get the same amount of medication as one three years old. Our medications are designed to help physicians, nurses and pharmacists properly titrate and tailor the dose of the product to each specific patient.”

Successful companies, it seems, listen to and learn from their end users. ☺



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Boettcher Foundation supports scientific innovation in Colorado

WRITTEN BY
JEANNE MCADARA, PHD

THE BOETTCHER FOUNDATION'S WEBB-WARING Biomedical Research Awards program supports scientific innovation in Colorado by providing biomedical research funding for early career investigators at the state's research institutions.

Recipients, known as "Boettcher Investigators," are awarded research grants of \$235,000, covering up to three years of biomedical research. The grants support Boettcher Investigators in establishing their research, helping them become competitive for major awards from federal agencies and private sources.

While the foundation's investment in biomedical research, as well as its support of scholarships and nonprofit organizations, have served every part of Colorado, the University of Colorado's BioFrontiers Institute holds a unique position in that many of the foundation's focus areas intersect in the facility. Currently three Boettcher Investigators make their research homes in the BioFrontiers Institute.

Among them is Loren Hough, an assistant professor whose research focuses include examining how a protein tail on microtubules might control different features of a cell.

Hough noted that, in addition to being a confidence-booster, the Webb-Waring Biomedical Research Award he received in 2014 allowed him to move forward with research that might be considered high-risk. "It worked great and that research is the foundation for the rest of what we're doing now," he said.



Boettcher Investigator Robin Dowell says Boettcher Scholars have been a valuable addition to her lab.

Hough also takes advantage of another unique aspect of Boettcher Foundation funding: the ability to have undergraduate Boettcher Scholars work in his lab. Boettcher Scholarships are awarded to 42 outstanding Colorado high-school graduates each year, allowing them to attend college in Colorado.

“They’re all really good,” Hough said of the Boettcher Scholars who have worked in his lab. “Having that connection to a high-quality pool of undergraduates and the money to do work with them is a real benefit.”

2010 Boettcher Investigator Robin Dowell, an associate professor of molecular, cellular and developmental biology whose computational biology work examines gene transcription, has eagerly welcomed Boettcher Scholars into her lab as well.

“[The Boettcher Scholars] are all really good. Having that connection to a high-quality pool of undergraduates and the money to do work with them is a real benefit.”

- LOREN HOUGH, ASSISTANT PROFESSOR AND BOETTCHER INVESTIGATOR

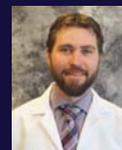
“I haven’t had direct Boettcher funding in several years but having these undergrads in my lab has had an impact that is almost more valuable,” she said.

Dowell added that another benefit of her Boettcher funding was the opportunity it gave her to engage with the Colorado BioScience Association and the small business sector of the bioscience community. That encouraged her to launch her own business utilizing her research methods for other companies, an outcome she called an “unintended side effect” of her Webb-Waring Award.

Dowell’s experience as a Boettcher Investigator prompted her to encourage her colleague, Edward Chuong, to apply for the program. Chuong, a genome

2018 Boettcher Investigators

Colorado State University



Jesse W. Wilson, Ph.D., Assistant Professor of Electrical & Computer Engineering and Biomedical Engineering – Advanced biomedical imaging and microspectroscopy

University of Colorado Anschutz Medical Campus



Kathleen M. Gavin, Ph.D., Assistant Professor of Medicine, Division of Geriatric Medicine – Cellular composition of adipose tissue



Jean M. Mulcahy Levy, M.D., Assistant Professor of Pediatrics, Section of Hematology, Oncology and Bone Marrow Transplantation – New therapy development for pediatric brain tumors

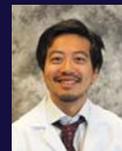


Matthew Taliaferro, Ph.D., Assistant Professor of Biochemistry and Molecular Genetics – Regulation of subcellular RNA localization



Eszter K. Vldar, Ph.D., Assistant Professor of Medicine and Cell & Developmental Biology – Airway epithelial development, homeostasis and dysfunction

University of Colorado Boulder



Edward Chuong, Ph.D., Assistant Professor of Molecular, Cellular and Developmental Biology – Evolution of gene regulatory networks



David H. Root, Ph.D., Assistant Professor of Psychology and Neuroscience – Neurobiology of drug addiction

Interested in applying?

Early career investigators interested in applying for Webb-Waring Biomedical Research funding should visit their institution’s research department for more information.



Photo credit Glenn Asakawa/University of Colorado

biologist whose research focuses on finding the causes of gene dysregulation, was named a 2018 Boettcher Investigator.

“Having the Boettcher award made starting the lab a lot easier. I was able to focus on setting up the lab the way I wanted without skimping on equipment,” said Chuong, an assistant professor of molecular, cellular and developmental biology. “We are doing our first experiments, moving along a lot faster than I would have expected. Having a talented Boettcher Scholar in the lab has also been a great help.”

In addition to Boettcher Investigators and Boettcher Scholars crossing paths at BioFrontiers, the facility represents yet another aspect of Boettcher Foundation funding. As a supporter of nonprofits that are developing the next generation of leaders, the Boettcher Foundation provides grants to many organizations throughout Colorado. The foundation awarded a grant toward the completion of the BioFrontiers facility in 2014.

“To see our Boettcher Investigators, our Boettcher Scholars, our higher education partners and our grant funding come together in a single place is absolutely inspiring,” said Katie Kramer, President and CEO of the Boettcher Foundation.

For more information on the Boettcher Foundation, please visit www.BoettcherFoundation.org.

Boettcher Investigators Loren Hough (above) and Edward Chuong (below) both round out their research teams with undergraduate Boettcher Scholars.

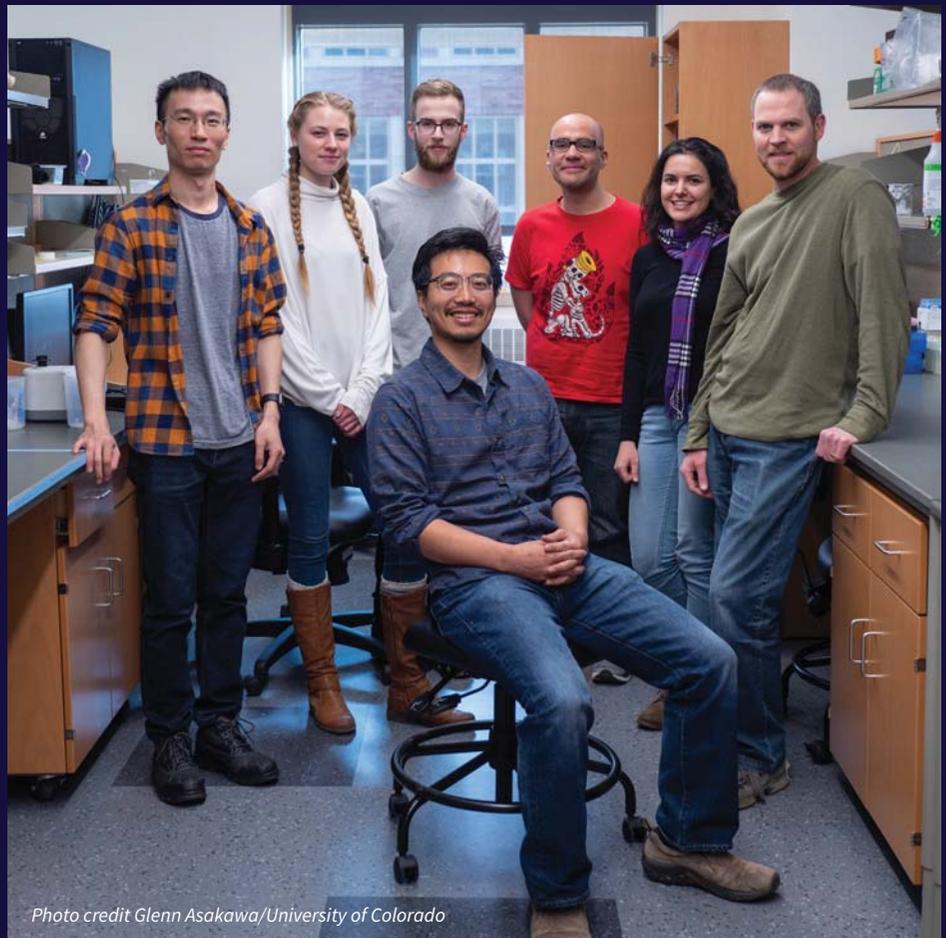


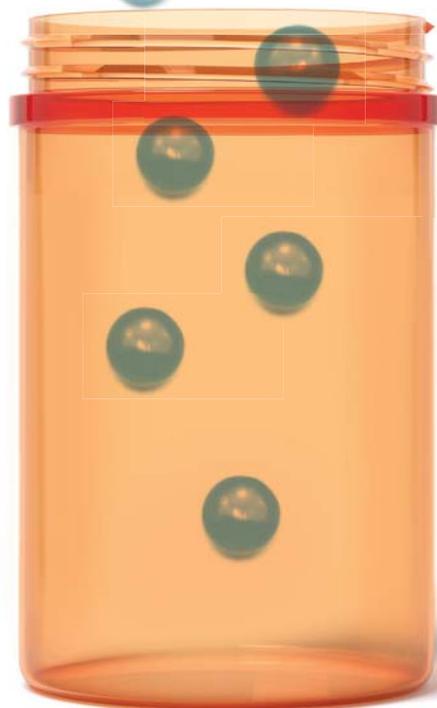
Photo credit Glenn Asakawa/University of Colorado



Alliance

**WRITTEN BY
JEANNE MCADARA, PHD**

ACCORDING TO THE U.S. CENTERS FOR DISEASE CONTROL and Prevention, more than 135 million Americans visit emergency departments (EDs) annually, for help with everything from traumatic accidents to headaches. Regardless of etiology, pain and discomfort are the most common presentations in the ED, but all pain is not created equal, and decisions regarding how to treat it are coming under increasing scrutiny in the face of a raging, nationwide epidemic of opioid abuse. In Colorado, opioid-related fatalities have become more common than deaths from alcohol-related traffic accidents and have continued to rise over the past five years. While Colorado's opioid prescribing rates are below the national average (about 53 versus 59 prescriptions per

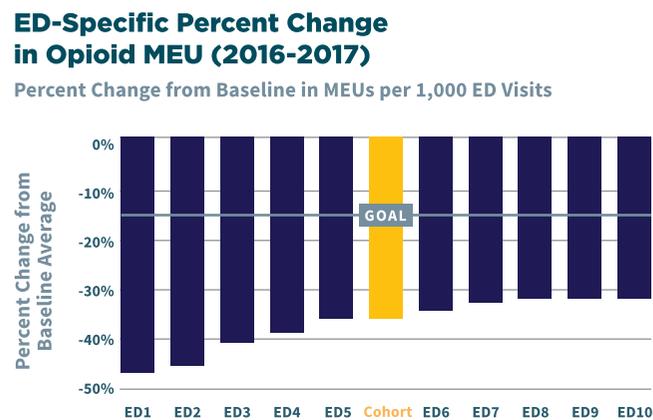
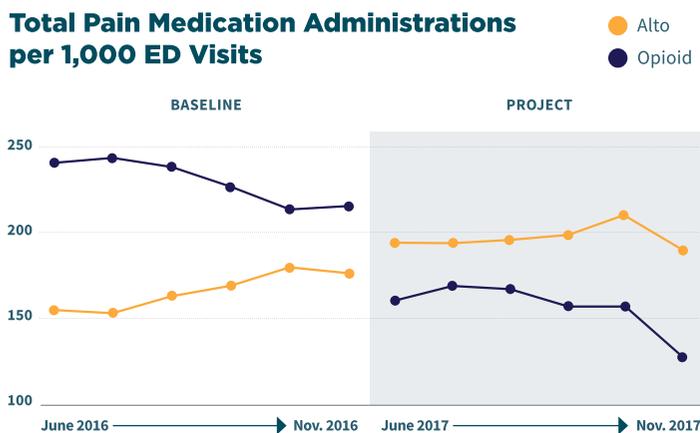


Colorado collaborations
face the epidemic head-on

100 persons in 2017, respectively), many of Colorado's counties have some of the highest opioid prescribing rates in the United States, with some generating prescription volumes in excess of one per member of its population.

“Aside from a few bad actors in so-called pill mills, physicians for the most part just want to alleviate pain and suffering. And to the extent that physicians are people like everyone else, we see the news, and how things have ramped up over the years, and we have started looking at our own role in this crisis.”

That's according to Heidi Wald MD, MSPH, currently the Chief Quality and Safety Officer for SCL Health, a faith-based, nonprofit healthcare organization headquartered in Broomfield, Colorado.



Selected results from the Colorado ALTO Project’s pilot study. In the first month after the Colorado ACEP guidelines were implemented at 10 emergency departments throughout the state, use of ALTO treatments for pain became more common than prescription opioids. Reductions in opioid use at participating sites ranged from 31 to 46 percent, far exceeding the study’s initial goal of a 15 percent overall reduction.

Both at SCL Health and in her previous role as physician-advisor to the Colorado Hospital Association (CHA; Greenwood Village, Colorado), Wald has been part of an important statewide, multi-organization, public-private, collaborative initiative to address the opioid epidemic, starting in Colorado hospital EDs.

The initiative, which has been jointly led by the CHA and its numerous partners, is called the Colorado ALTO (Alternatives to Opioids) Project. Its goal is to change opioid-prescribing patterns at EDs throughout the state, by implementing pain-management and prescribing guidelines developed by the Colorado chapter of the American College of Emergency Physicians (CO-ACEP; Northglenn). The guidelines and training are aimed at redirecting how ED physicians, nurses, pharmacists, and other staff think about pain management; instead of choosing opioids first, evidence-based pathways present treatments that, in many cases, have been proven to be more effective and safer in specific situations. Examples include combination acetaminophen and ibuprofen for headaches, migraine-specific medications, and lidocaine trigger-point injection or patches for musculoskeletal pain.

“A critical message of the guidelines and the project is that we are not telling prescribers to ignore pain, or to never use opioids for any situation,” says Darlene Tad-y MD, current physician-advisor to CHA. “The message is, there are many proven, successful alternatives for acute pain that we should try first. We want to treat pain effectively and ALTOs are a good way to do that.”

The ALTO Project was piloted in 10 EDs throughout the state in 2017 and concentrated on pain management for the five top presentations of

pain—headache, unspecified abdominal pain, long bone fracture, musculoskeletal/low back pain, and kidney stones. The goal was to reduce opioid prescriptions by 16%.

“And it worked really well,” says Tad-y. “We saw an average 36% reduction in opioid prescriptions in the first six months of the pilot, with a corresponding 31% increase in the administration of ALTOs.” With such compelling initial results, the project is now undergoing a planned expansion to eventually include all Colorado EDs.

A key advantage of the program, in Wald’s view, is that it is peer-driven, with guidelines developed

The guidelines and training are aimed at redirecting how ED physicians, nurses, pharmacists, and other staff think about pain management; instead of choosing opioids first, evidence-based pathways present treatments that, in many cases, have been proven to be more effective and safer in specific situations.

by and for prescribers in specific sub-specialties. Since announcing the successful results from the pilot, the Colorado ALTO project has been able to recruit more than 85% of Colorado’s hospital and freestanding EDs to be trained in the approach. “It speaks to what state-wide collaboration can bring especially when backed by opinion of a professional society.” In fact, she says, SCL Health’s active participation in the broader rollout includes reaching into Montana for peer-to-peer education and program recruitment.

All involved acknowledge that EDs hold sway over just a tiny segment of the opioid prescribing milieu, but as Wald says, “you can’t boil the ocean. You have to start with a scope-able project.

EDs are a physically contained environment, with a defined population of patients, doctors, nurses, pharmacists, and therefore a great place to pilot these ideas.”

Robert Valuck, PhD, RPh is the director of the Colorado Consortium for Prescription Drug Abuse Prevention (“the Consortium;” headquartered within the Skaggs School of Pharmacy and Pharmaceutical Sciences at the University of Colorado Anschutz Medical Campus, Aurora, Colorado). He says that, while the ED-focused Colorado ALTO Project is aimed at reducing acute prescribing to opioid-naïve patients, its initial and ongoing success has, as hoped, attracted attention from other specialties outside the ED. His organization, along with the Colorado Medical Society (CMS; Denver, Colorado), have now partnered with CHA for a new phase of the collaboration, the CO’s CURE initiative. This project is aimed at reducing opioid administration in the inpatient setting by extending the program’s learnings to subspecialties like surgery, urology, and family and hospital medicine.

“This is an important piece,” says Valuck. “It’s easiest to stop opioid use disorders by not exposing people in the first place, but chronic pain is still challenging. Patients are understandably afraid of not having their pain controlled and of withdrawal, so we have a lot more work to do.”

Tad-y says that the CO’s CURE initiative and other programs coming out of this collaboration are built on a new understanding of the role of harm reduction in managing opioid use disorders. “The critical pillars to getting a hold on this crisis are: limit opioid prescriptions, use alternatives when possible, reduce the stigma of addiction, and actively treat addiction.”

The Take-Back Project is a network of secure boxes for the collection of unused and unwanted household medications.

Of course, there remains much more to be done. Based on decades of experience in the public sphere, Valuck also sees a key role for the private sector in the crisis. “After seeing all the things that have been done well so far, academia, policy, and money still can’t fix every problem or solve every need,” he says. “There are still issues that doctors, patients, and law enforcement struggle with on the ground.”

That gap spurred Valuck to found the digital health company OpiSafe™ (Denver, Colorado), which has produced a suite of apps aimed at helping doctors prescribe according to best practices, monitor patterns of use in individual patients, and notice red flags for early detection and intervention.

“Opioid use disorder shows up as a complex constellation of behaviors and signals,” says Valuck. “Doctors can identify the pattern if they can see it. OpiSafe shows them all the data points.” OpiSafe also offers an app for law enforcement and the lay public, OpiRescue™, to help guide untrained bystanders in how to manage a potential overdose victim while waiting for medical first responders to arrive.

It’s likely that software and machine learning will play an increasing role in curbing opioid



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Richard Hanbury, CEO of Sana Health, says that audiovisual entrainment using the company's biotherapeutic mask (right) may reduce the need for pharmaceutical pain relief.



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prescribing and connecting patients to coordinated care in the coming years. Other companies to watch in this area include RxRevu™ (Denver, Colorado), which provides prescription decision support to prescribers at the point of care, and Julota® (Colorado Springs, Colorado), which enables secure sharing of health and personal information with a broad array of community-based services.

Another approach to providing alternatives to opioids for pain management is being explored by Sana Health, Inc. (Lafayette, Colorado). The company was named after the capital city of Yemen, where in 1992, founder and CEO Richard Hanbury suffered a crippling spinal injury with such severe nerve damage that he was not expected to live more than 5 years—a slow death from neuropathic pain so overwhelming and intractable that he would eventually die from the inability to experience restorative sleep. Opioids were the first line of treatment, but because of the natural build-up of physiological drug tolerance they quickly lost effect. Grasping for anything to help, Hanbury happened to notice that certain audiovisual stimulation could distract him from his pain, and based on his background and an interest in neurobiology was able to invent a new form of audio-visual brainwave entrainment to cure his neuropathic pain quickly. Now, after 27 years and a number of technical and financial hurdles, Sana Health's noninvasive, biotherapeutic mask is in early trials. The first completed study in opioid use disorder showed the Sana device halved subjective opioid-withdrawal symptoms compared to sham, and reduced every other symptom measured. Planned future studies include neuropathic pain, fibromyalgia, and oncology pain, and the

company is actively seeking collaborations for signal studies in other clinical areas.

“The most significant feedback from people who’ve used our device is not necessarily, ‘you’ve reduced my pain.’ Instead it’s ‘I feel freedom of choice and control,’” says Hanbury. “In the moment of a pain spike, patients can choose to use a device instead of popping a pill that may help but interfere with other activities or put them at risk. We view the mask as a tool in the toolbox to give people more control and freedom over how they want to manage their pain in the moment.”

“The most significant feedback from people who’ve used our device is not necessarily, ‘you’ve reduced my pain.’ Instead it’s ‘I feel freedom of choice and control,’”

**- RICHARD HANBURY,
FOUNDER AND CEO, SANA HEALTH**

The opioid epidemic is complex and the challenges many. These efforts are in relative infancy and require refinement and extension. What all of the participants seem to agree on is that Colorado's cultural focus on collaboration and innovation is already positioning the state as a national model for addressing an overwhelming puzzle.

Valuck says, “Colorado is demonstrating to the nation that we’re not waiting until the problem worsens to do something. We’re working together and taking charge now.” ©

BIOSCIENCE PROFILES

Shi-Long Lu adapts a sound approach to noninvasive testing for head and neck cancer

When Shi-Long Lu, MD, PhD, Associate Professor of Otolaryngology at University of Colorado Anschutz Medical Campus, encountered a good solution to a major clinical challenge, it stuck with him.



“As a postdoc, I contributed to research that led to an FDA-approved, noninvasive test for colorectal cancer, Cologuard®,” he says. “After I switched my research focus to head and neck cancers, I realized I could use a similar approach there.”

That idea led to a saliva-based test called HNKlear. The test, which detects specific modifications to tumor DNA, is now in clinical trials in collaboration with John Song, MD, at University of Colorado Anschutz Medical Campus. So far, the data is promising, and Lu is hopeful that one day the test could be used for routine screening.

“It’s my dream to see something I came up with used in the clinic,” Lu says. “That’s a true sign that your work is valuable.”

If HNKlear proves capable of early detection, it stands to drastically improve outcomes for head and neck cancers. Only 40 to 50 percent of patients survive 5 years.

Lu’s determination to do novel, important work is what made him a cancer researcher.

“I started out as just a clinician, but I quit to start a research lab because I wanted to figure out things that no one yet understood.”

Lu established a company, SummitDX, to refine and advance HNKlear. The company is supported by CU Innovations’ SPARK program, which focuses on technologies addressing unmet clinical needs to bridge the “translational gap” between the lab bench and the patient. As a SPARK program fellow, Lu was paired with world-class industry counsel, and Lu’s advisor has an especially relevant background.

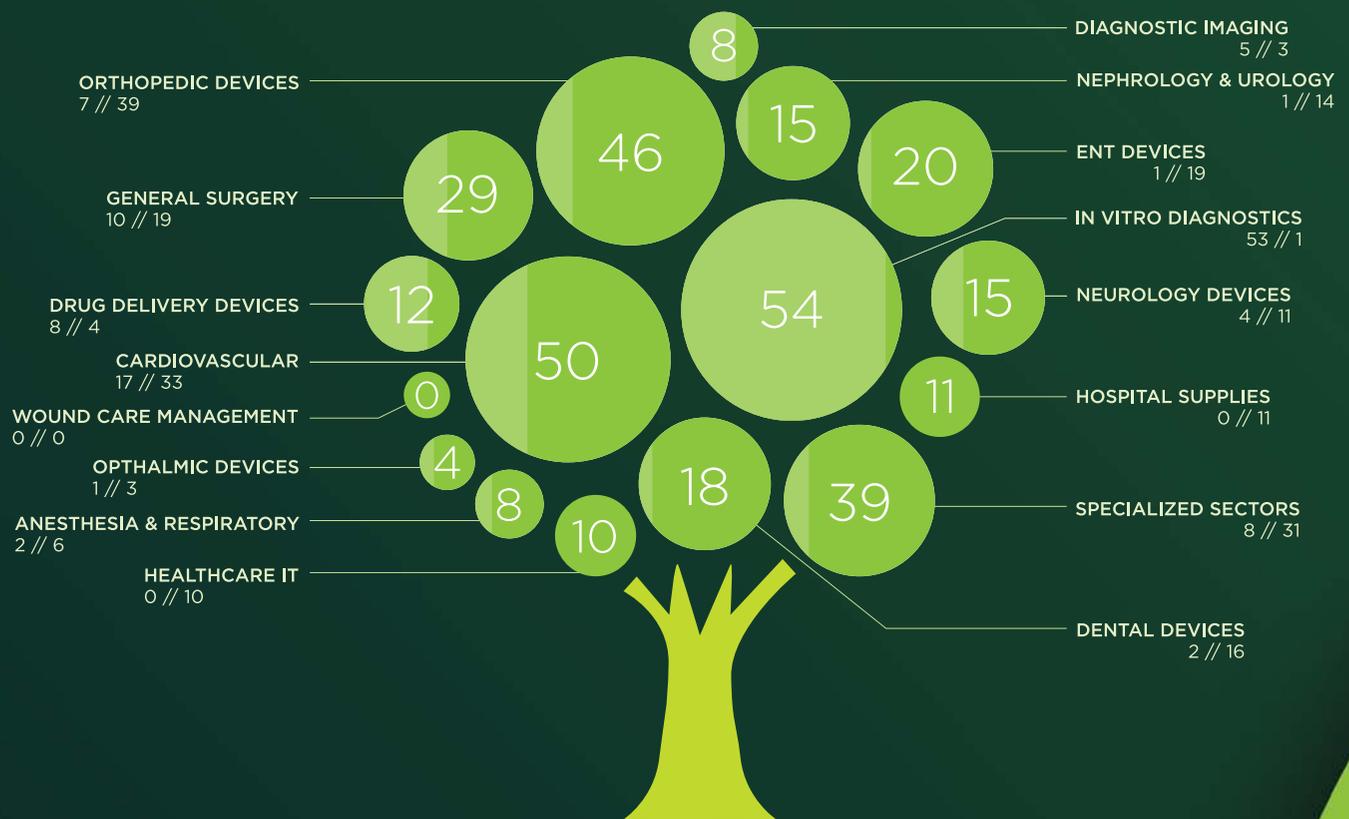
“SPARK connected me with Stan Lapidus, who developed Cologuard® as the founder and CEO of Exact Sciences,” Lu remarks. “With his advice, I know we’re headed in the right direction.”

A CLOSER LOOK

into the Nature of Colorado's Clinical Assets in 2018

Devices by Medical Specialty

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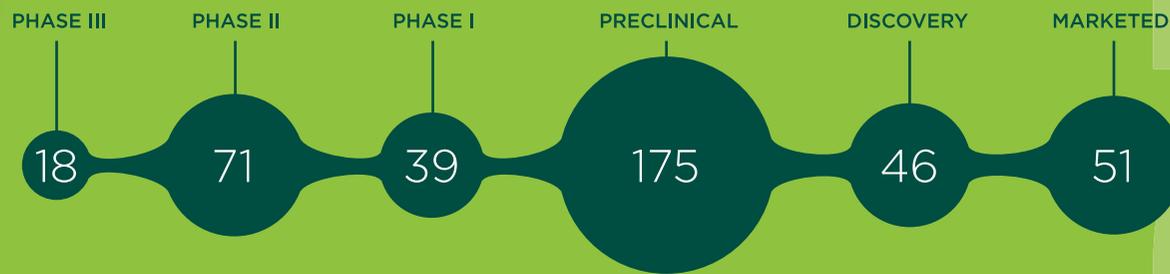
Device Approvals



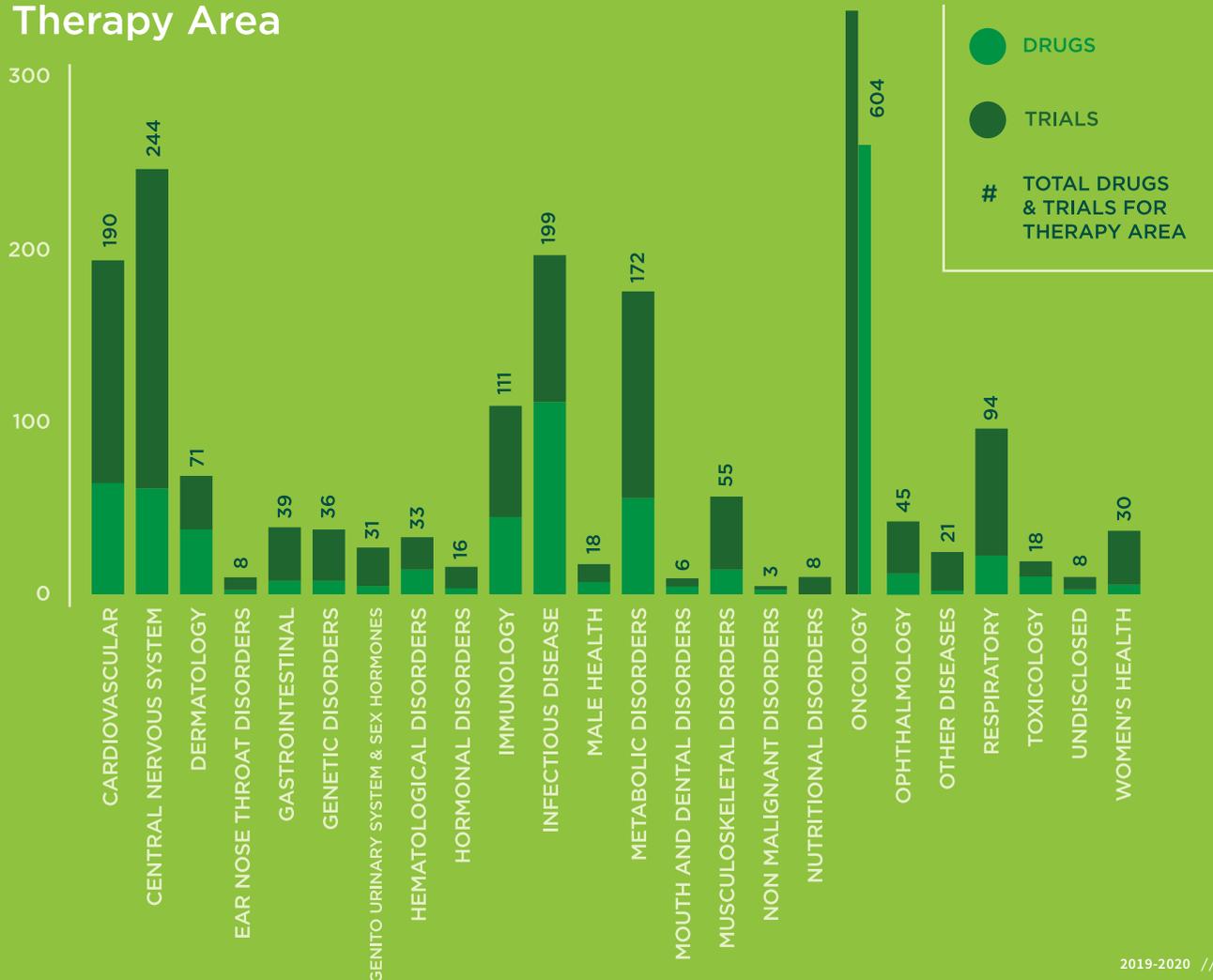
Clinical Trials By Status



Drugs by Phase



Drugs and Trials by Therapy Area



GRANT PROGRAMS: Innovation Engines

THE GROWTH AND SUCCESS OF COLORADO'S LIFE SCIENCE ECOSYSTEM would not be as robust as it is today without valuable assistance from the state's Advanced Industries (AI) Accelerator Grant Program. Initiated in 2006, and known as the Bioscience Discovery Evaluation Grant Program (BDEG), Colorado recognized the need to support the development of its novel technologies and make an effort to advance commercialization. The program's success led to the passage of additional legislation in 2013, enacting the AI Accelerator Grant Program we know today.

The AI Accelerator Grant Program promotes growth and sustainability in Colorado's seven advanced industries – advanced manufacturing, aerospace, bioscience, electronics, energy, infrastructure engineering and technology – by helping drive innovation, accelerate commercialization, encourage public-private partnerships, increase access to early

stage capital and create a strong ecosystem that increases the state's global competitiveness.

The AI Grant program supports innovators and creates jobs. Colorado's economy, our bioscience companies, and the patients our companies serve all benefit from these critical investments. Since its inception, the state's AI Accelerator Grant Program has awarded 413 grants to bioscience companies, creating 79 new companies, 773 direct jobs, and \$551.7 million in follow-on grants and investments.

In addition, the AI Export Grant Program supports many small and medium-sized businesses in the advanced industries, and offsets international business development and related marketing costs. These programs exemplify the importance of investment to promote growth and sustainability to drive innovation, accelerate commercialization and encourage public-private partnerships.

Since the Inception of the State's Advanced Industries Grant Program:



413 GRANTS
awarded to bioscience companies



773 DIRECT JOBS



79 NEW COMPANIES



\$551.7 MILLION
in follow-on grants and investments

The AI Accelerator Grant Program offers four grant types:



Proof of Concept Grants

Identify and pull technologies from research institutions where they were discovered and connect them to the private sector, where they can be developed into products for commercialization.



Early-Stage Capital & Retention Grants

Fund companies using technologies developed in proof-of-concept grants and other early-stage start-ups that have created viable products that meet a market need and that can be created or manufactured in Colorado and exported globally.



Infrastructure Funding Grants

Used to accelerate commercialization and innovation of AI products and services by building capacity and workforce for the AI ecosystem.



Export Grant

The grant program supports small and medium-sized business through funds to offset international business development and marketing costs.

Proof of Concept Grants by Institution

COLORADO SCHOOL OF MINES

Investigator: Rob Jenison
Focus: Phage-based identification and antibiotic resistance profiling of priority gramnegative pathogens

Investigator: Andrew Petruska, PhD
Focus: Magnetic manipulation system for diagnostic and surgical applications

Investigator: Will Fleckenstein, PhD
Focus: Large ball frac sleeve multi-stage fracturing system

COLORADO STATE UNIVERSITY VENTURES, INC

Investigator: Susan Bailey, PhD
Focus: Next Gen Directional Genomic Hybridization (dGH 2.0): novel inversion discovery for improving diagnosis of rare diseases

Investigator: Christopher Snow, PhD
Focus: Intracellular tagging technology: design, synthesis, and validation

Investigator: Seth Donahue, PhD
Focus: Bio-inspired 3D printed materials for running shoes

Investigator: Eugene Chen, PhD
Focus: Completely recyclable polyesters as high-performance biomaterials and plastics

Investigator: Elaine Carnevale, PhD
Focus: Multi-sensor platform for monitoring embryo metabolism and quality

Investigator: Amanda Guth, PhD
Focus: Generation of metabolically viable and replication incompetent whole cell tumor vaccines

Investigator: Susan James, PhD
Focus: Hyaluronan enhanced small diameter vascular grafts

Investigator: Gary Luckasen, MD
Focus: Needle-less drug delivery device based on novel dispersive iontophoretic technology

NATIONAL JEWISH HEALTH - TECHNOLOGY TRANSFER OFFICE

Investigator: Meiqin Wang, MD, PhD
Focus: The use of Cyp11a1 as a diagnostic biomarker for food allergy

Investigator: Evans Fernandez, MD, MS
Focus: Diagnostic importance of quantifying antigen-specific serum IgG in hypersensitivity pneumonitis

Investigator: Rafael Alam, MD, PhD
Focus: Development of the CBX7 inhibitor MS37452 as a therapeutic agent for steroid resistant asthma

Investigator: Preston Bratcher, PhD
Focus: Hyposelenocyanate as a novel antimicrobial for the treatment of pulmonary infections with NTM

Investigator: Sanny Chan, MD, PhD, Assistant Professor
Focus: Improving diagnosis of allergies to dogs by quantifying component specific IgE

Investigator: Michael Strong, PhD
Focus: Biotech/pharma companies developing antimicrobials and patients

UNIVERSITY OF COLORADO - BOULDER

Investigator: Zbigniew Celinski, PhD
Focus: Contrast agent for magnetic resonance imaging thermometry

UNIVERSITY OF COLORADO - COLORADO SPRINGS

Investigator: M. Karen Newell-Rogers, PhD
Focus: Next generation immunotherapy for the treatment of melanoma

UNIVERSITY OF COLORADO - DENVER

Investigator: Bonnie Jortberg, PhD
Focus: Connection to health

Investigator: Shi-Long Lu, PhD
Focus: "HNKlear": a saliva-based molecular test for head and neck cancer

Investigator: Robin Shandas, PhD
Focus: Reverse thermal gel liquid embolic

Investigator: Thor Johnson, MD, PhD
Focus: Development of a portal vein catheter

Investigator: Jeffrey Olson, MD
Focus: Defender intravitreal implant

Investigator: Christopher Yakacki, PhD
Focus: Creating ultra-dissipative helmet liners using liquid crystalline elastomers foams

Investigator: Robert Hodges, PhD
Focus: Development of antimicrobial peptides to target gram-negative pathogens

UNIVERSITY OF DENVER

Investigator: Chadd Clary, PhD
Focus: Improved treatment of joint infection in total knee arthroplasty: prototype realization

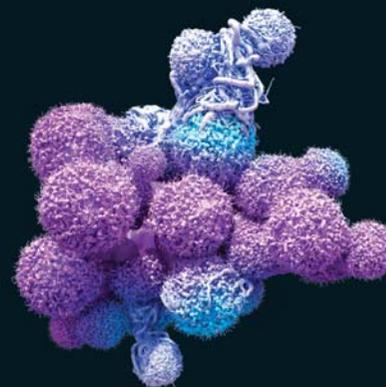
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Early-Stage Capital and Retention Grants

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AURORA ONCOLOGY is an early clinical stage biopharmaceutical company developing targeted therapeutics to image and treat superficial bladder cancer. These products are highly efficacious and have low toxicity compared to the only other therapy that is currently approved by the FDA.

AXIMMUNE, INC. CSU and UCD are codeveloping an immuno-oncology (IO) drug. Studies completed at CSU, with help of OEDIT, showed it is highly active and amplifies current IO drugs. Previous single agent human trials show no side effects and strong evidence of benefit. It is anticipated that in people, as in the animals, the limited benefit of current IO drugs will be converted to cancer cures and immunity.

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EIR, INC. HeartHero is the lowest cost, easiest-to use and most portable automated external defibrillator (AED) that can be used by anyone witnessing a cardiac arrest, anywhere at anytime. It uses a regular 9V battery, fits in a pocket, and costs less than half the price of the cheapest automatic defibrillator on the market.

EVOLUTIONARY GENOMICS, INC. identifies, develops, patents and markets genes that improve agricultural crops and allow farmers to be more productive.

GREEN SUN MEDICAL, LLC is completing development of a tech-enabled dynamic scoliosis brace. The brace will provide continuous pressure to correct the spine in a way similar to orthodontics while still allowing the patients to move and function as normal teenagers. The patients and their families will be able to monitor compliance of brace wear. The physicians will be able to monitor remotely the performance of the brace to ensure that their patients are receiving the proper treatment.

HEALTH SCHOLARS, INC. Why are pilots immediately able to manage an in-flight crises? They train in simulators. Health Scholars uses VR gaming tech to let nurses and doctors make critical decisions in immersive VR simulation to better prepare them to save patient lives. The annual cost of U.S. preventable medical errors is \$20B. Training with our VR saves lives and lowers cost, producing ROI of 5 to 5,000, depending on the medical error avoided.

LIVING INK TECHNOLOGIES, LLC is developing the future of sustainable, renewable and safe ink. We turn tiny colorful algae cells, the stuff that grows in lakes, into sustainable biopigments and inks for \$20 billion ink industry. We have developed an entirely plant-based ink formulation to print on packaging, stationary and marketing material. Our product replaces current printing ink made from non-renewable, unsustainable and toxic petroleum/minerals, and meets the needs of sustainable and eco-focused companies.

MACHAVERT PHARMACEUTICALS We create novel drug substances that take advantage of the unique properties of nature-inspired lipids to treat cancer with immune enhancing and tumor-selective drug delivery. Our approach takes advantage of the function of lipids in biological systems to influence metabolism and a wide variety of cellular signaling pathways. These phospholipid molecules represent an

intriguing opportunity for developing novel drug candidates to achieve multi-level effects on human health.

MFB FERTILITY, INC. We empower couples to take control of their fertility by providing them innovate ways to measure reproductive hormones at home. Our products allow women to track fertility and identify hormonal problems that cause infertility and miscarriage. By allowing them to track hormones at home, they can identify and treat issues faster and with less cost than fertility centers and IVF treatments.

MPTI Blend of organic plant extracts which improves artificial insemination pregnancy rates in cows.

NEURAPTIVE THERAPEUTICS, INC. Nerve injuries from traumatic injuries - a major unmet medical affecting >1.4M Americans ever year - result in poor outcomes including permanent disability. Current therapeutic options for nerve injuries are inadequate. Our flagship surgical nerve repair product has been shown to dramatically improve recovery from nerve injuries in pilot studies. The company is raising capital to bring this product to patients.

PRINCIPLES OF ATHLETICS AND NEUROSCIENCE TOWARD HUMAN EXPERTISE Any clinician or coach who teaches any type of human movement can use the Kinesthetic Awareness Tool (KAT) system to help athletes and patients improve motor skills in the sports or medical fields. The KAT is a wearable motion capture/correction system with customizable haptic feedback designed for movement educators for short term use with their clients. There is not another human performance system like it.

QALIBRE MD With quantitative MRI, (qMRI) it is possible to reduce unnecessary invasive surgeries and monitor precision therapeutics non-invasively with quantitative volumetric assessment. Our technology establishes a baseline for comparing image data across sites and over time. It has been instrumental in developing new rapid MRI protocols reducing scan times to just 5 minutes and eliminating the need for contrast injections in many cases

SECURISYN MEDICAL, LLC How is it acceptable that every year, 121,000 patients suffer, 33,000 patients die and \$4.9 billion are wasted due to unplanned extubation, the accidental removal of a patient's breathing tube? At Securisyn, our goal isn't to simply decrease unplanned extubations. It is to eliminate them completely. Our disruptive solution - SolidAIRity - is the first and only airway stabilization system. Standing up to over 6 times more force than the closest competition, it's the new force in airway safety.

SINOPSYS SURGICAL, INC. The SLS is a transcaruncular-ethmoid, reversible implant designed to deliver fluid to relieve CRS symptoms in the sinuses. The SLS addresses an untapped market of 7+ million patients reluctant to undergo drastic irreversible endoscopic surgery, while suffering from refractory medical therapy. This equates to significant revenue and improved health economics for all stake holders. Based upon implantation in 140+ patients, the SLS achieves a clinically significant reduction of symptoms.

SOUTH RIVER FARMS AQUAPONICS, LLC Aquaponics offers more for less. One acre of aquaponic production can yield the equivalent of three acres of traditional agriculture; while using 90% less water. We believe that high quality, organic locally grown food production, that minimizes water and arable land consumption, is a critical part of the future of food production for our ever-expanding population.

SOMNOHEALTH, INC. EverSleep is the only consumer sleep monitor to provide continuous oxygen, pulse rate, motion, and snore measurements throughout the night, AND provide clinically-based sleep coaching based on each users' specific sleep measurements and problems.

PROUD TO BE INNOVATORS

At Colorado State University our passion is innovation for global well-being. As the world's population continues to grow, we are committed to addressing challenges related to health, food, energy and the environment, all of which take center stage in our research and scholarship.



Our biomedical sciences department is using innovative technology, like virtual reality, to train the next generation of scientists and doctors.



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FOR RESEARCH**
COLORADO STATE UNIVERSITY



CSUVENTURES
Innovation at Work

COLORADO BY THE NUMBERS

2018 // FINANCINGS

COMPANY NAME	INVESTOR COMPANY NAME	DEAL VALUE (US\$M)	DEAL TYPE	ANNOUNCED DATE	INDUSTRY
3DBiopsy, Inc.	Undisclosed	0.85	Venture Financing	27-Aug-18	Medical Devices
Ampio Pharmaceuticals, Inc.	Undisclosed	8	Equity Offerings	9-Aug-18	Pharma
ArcherDx, Inc.	Boulder Ventures, Ltd. Peierls Foundation, Inc. Longwood Fund Management, LLC PBM Capital Group, LLC Boulder Ventures, Ltd. Peierls Foundation, Inc.	35	Venture Financing	20-Mar-18	Medical Devices
Armis Biopharma, Inc.	Undisclosed	1.83	Venture Financing	22-Jun-18	Pharma
Array BioPharma, Inc.	Undisclosed	125	Equity Offerings	9-May-18	Pharma
Articulus Bio, LLC	Undisclosed		Venture Financing	2-Jan-18	Medical Devices
Asius Technologies, LLC	Undisclosed	0.2	Venture Financing	13-Feb-18	Medical Devices
Aspero Medical, Inc.	Innosphere Fund		Private Equity	19-Jul-18	Medical Devices
Aytu BioScience, Inc.	Armistice Capital, LLC	5	Equity Offerings	5-Nov-18	Pharma
Aytu BioScience, Inc.	Undisclosed	15.2	Equity Offerings	5-Oct-18	Pharma
Aytu BioScience, Inc.	Undisclosed	12	Equity Offerings	1-Mar-18	Pharma
Biodesix, Inc.	Undisclosed		Venture Financing	5-Mar-18	Pharma
Biodesix, Inc.	Undisclosed	5.3	Venture Financing	10-May-18	Pharma
Biodesix, Inc.	Undisclosed	17.5	Venture Financing	10-Oct-18	Pharma
Biodesix, Inc.	Undisclosed	1.5	Venture Financing	23-Feb-18	Pharma
Brava Diagnostics	Undisclosed	4	Equity Offerings	20-Nov-18	Medical Devices
Cell>Point, LLC	Undisclosed	5	Venture Financing	4-Oct-18	Medical Devices
CeraPedics, Inc.	KCK Group	22	Venture Financing	13-Jul-18	Medical Devices
Cerebral Therapeutics, Inc.	Vivo Capital, LLC Granite Point Capital Management, L.P.	3	Venture Financing	20-Jun-18	Medical Devices
Cerebral Therapeutics, Inc.	Granite Point Capital Management, L.P. Vivo Capital, LLC	3	Venture Financing	20-Jun-18	Pharma
Certa Dose, Inc.	Undisclosed	2.6	Venture Financing	2-Jul-18	Medical Devices
Certa Dose, Inc.	Undisclosed	0.05	Venture Financing	3-Jan-18	Medical Devices
Clovis Oncology, Inc.	Undisclosed	100	Equity Offerings	16-Apr-18	Pharma
Clovis Oncology, Inc.	Undisclosed	300	Debt Offerings	16-Apr-18	Pharma
Concentric	Undisclosed	9.5	Venture Financing	8-Jan-18	Ag Bio
Concentric	Undisclosed	15.9	Venture Financing	19-Apr-18	Ag Bio
DMC Biotechnologies	Undisclosed	1.75	Equity Offerings	10-Jan-18	Biotech
DMC Biotechnologies	Undisclosed		Venture Financing	3-Oct-18	Biotech
EIR, Inc. (HeartHero)	Undisclosed	2.02	Venture Financing	17-Jul-18	Medical Devices
Excision, Inc.	CMED Partners LLLP	0.35	Equity Offerings	20-Dec-18	Medical Devices
Eximis Surgical, LLC	Questa Capital Management, LLC Venture Investors, LLC	7.5	Venture Financing	8-Nov-18	Medical Devices
Eximis Surgical, LLC	Undisclosed	5.15	Venture Financing	15-Feb-18	Medical Devices

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- Global coverage of companies, news, and deals

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Commercial epidemiology

- Patient-based forecasting model to determine the market size for therapeutic indications



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2018 // FINANCINGS CONT'D

COMPANY NAME	INVESTOR COMPANY NAME	DEAL VALUE (US\$M)	DEAL TYPE	ANNOUNCED DATE	INDUSTRY
Flagship Biosciences, Inc.	Undisclosed	1	Venture Financing	9-Jan-18	Pharma
Flagship Biosciences, Inc.	Undisclosed		Venture Financing	10-Jul-18	Pharma
Flagship Biosciences, Inc.	Undisclosed	2.5	Venture Financing	26-Jun-18	Pharma
Inscripta, Inc.	Foresite Capital Management, LLC Merieux Developement MLS Capital Fund NanoDimension Management Limited Paladin Capital Group Venrock Healthcare Capital Partners, LP	30	Venture Financing	19-Dec-18	Pharma
Inscripta, Inc.	Foresite Capital Management, LLC MLS Capital Fund II NanoDimension Management Limited Paladin Capital Group Venrock, Inc.	55.5	Venture Financing	28-Feb-18	Pharma
Machavert Pharmaceuticals, LLC	Undisclosed	2	Venture Financing	8-Feb-18	Pharma
mBio Diagnostics, Inc.	Heska Corp Undisclosed	6	Venture Financing	21-Aug-18	Medical Devices
mBio Diagnostics, Inc.	Undisclosed	1.1	Venture Financing	9-May-18	Medical Devices
MedAware Systems, Inc.	Undisclosed	0.15	Venture Financing	15-Jan-18	Pharma
miRagen Therapeutics, Inc.	Undisclosed	38.5	Equity Offerings	8-Feb-18	Pharma
Neuraptive Therapeutics	Undisclosed	11.5	Equity Offerings	19-Dec-18	Medical Devices
Neuraptive Therapeutics, Inc.	New Rhein Healthcare Investors, LLC	14	Venture Financing	18-Dec-18	Pharma
Neuraptive Therapeutics, Inc.	Undisclosed	0.1	Venture Financing	2-Aug-18	Pharma
Ocugen, Inc.	Undisclosed	5	Venture Financing	1-Feb-18	Pharma
OnKure, Inc.	Delian Capital	7	Venture Financing	2-May-18	Pharma
Rezolute, Inc.	BVF Partners, LP	4	Private Equity	2-Apr-18	Pharma
Rezolute, Inc.	Lincoln Park Capital Fund, LLC	11.78	Equity Offerings	29-Jan-18	Pharma
Rezolute, Inc.	BVF Partners, LP	0.7	Private Equity	29-Jan-18	Pharma
SomaLogic, Inc.	Undisclosed	0.15	Venture Financing	18-Jan-18	Medical Devices
SomaLogic, Inc.	Undisclosed	0.15	Venture Financing	18-Jan-18	Pharma
SomaLogic, Inc.	iCarbonX Co, Ltd Madryn Asset Management, LP Nan Fung Life Sciences	200	Private Equity	3-Jan-18	Pharma
Sopris Health	Access Venture Partners Cue Capital Tallwave Capital Cedars-Sinai Accelerator Techstars Rockies Venture Fund	3.4	Venture Financing	2-Oct-18	Digital Health
Triple Endoscopy, Inc.	Undisclosed	0.5	Venture Financing	23-Feb-18	Medical Devices
Viveve Medical, Inc.	Undisclosed	20	Equity Offerings	6-Dec-18	Medical Devices
Viveve Medical, Inc.	Undisclosed	34.5	Equity Offerings	7-Feb-18	Medical Devices



2018 // GRANTS

ORGANIZATION	AWARDS	FUNDING
Ablelink Technologies, Inc.	1	\$17,171
Access Sensor Technologies, LLC	1	\$500,451
Aerophase, Inc.	1	\$150,000
African Strategies/Advancing Pathology	1	\$38,120
Allander Biotechnologies, LLC	2	\$1,498,912
American Association Of Neuropathologists, Inc.	1	\$22,300
Amidebio, LLC	1	\$207,286
Aspirebio Corporation	1	\$225,000
Aurora Oncology, Inc.	1	\$299,937
Bcell Solutions, Inc.	1	\$292,177
Biological Sciences Curriculum Study	1	\$263,837
Biomimetix Jv, LLC	1	\$300,000
Boulder County Public Health Department	1	\$70,000
Boulder Nonlinear Systems, Inc.	1	\$693,539
CHI Institute for Research & Innovation	1	\$1,051,535
Clearsight, LLC	1	\$499,999
Colorado Alphaherpesvirus Latency Society	1	\$45,000
Colorado Cancer Research Program, Inc.	1	\$842,762
Colorado Research Partners, LLC	1	\$769,627
Colorado School of Mines	6	\$2,542,116
Colorado State Department/Agriculture	3	\$1,216,262
Colorado State Dept/Pub Health & Environment	9	\$2,073,294
Colorado State University	123	\$34,385,977
Crestone, Inc.	1	\$2,575,997
Denver Health and Hospital Authority	10	\$3,384,863
Denver Museum of Nature and Science	1	\$255,880
Dream Face Technologies, LLC	1	\$241,344
Fieldline, Inc.	1	\$219,167
Fischer Imaging, Inc.	1	\$299,950
Fort Lewis College	2	\$359,992
Immunomolecular Therapeutics, LLC	1	\$224,991
Keystone Symposia	43	\$409,000
Klein Buendel, Inc.	10	\$4,703,990
Kromatid, Inc.	1	\$206,597
Lifeboard Medical	1	\$150,000
Lohocla Research Corporation	1	\$1,500,000
MBC Pharma, Inc.	3	\$1,291,054
Meadowlark Optics, Inc.	1	\$1,258,442
Menogenix, Inc.	1	\$693,360
Mesa County Health Department	1	\$69,779
National Environmental Health Association	2	\$1,022,750

ORGANIZATION	AWARDS	FUNDING
National Jewish Health	74	\$49,257,961
Native American Cancer Initiatives, Inc.	1	\$499,535
Op-T-Mune, Inc.	1	\$561,109
Phoenix NMR, LLC	1	\$223,461
Point Designs, LLC	1	\$224,952
Pueblo Department of Public Health and Environment	1	\$70,000
QalibreMD, Inc.	1	\$224,422
Rocky Mountain Virology Association	1	\$8,500
Sharklet Technologies, Inc.	1	\$805,971
Sivec Biotechnologies, LLC	1	\$293,142
TDA Research, Inc.	3	\$1,080,091
TopoGen, Inc.	1	\$256,100
University Corp for Atmospheric Research	1	\$11,644
University of Colorado	154	\$59,302,981
University of Colorado at Colorado Springs	2	\$864,000
University of Colorado Denver	774	\$265,320,056
University of Denver (Colorado Seminary)	19	\$6,232,502
Ursa Analytics, Inc.	1	\$222,381
VA Eastern Colorado Health Care System	39	\$-
Verifax Corporation	1	\$150,000
VetDC, Inc.	1	\$150,000
Visugen Global, LLC	1	\$149,998
Wavi Company	1	\$222,838
Z Biotech, LLC	1	\$149,935

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DIRECTORY



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MED TECH**C 3D Systems - Healthcare**

Littleton
www.3dsystems.com
Produces highly accurate 3-D physical models of human bone structure from imaging such as CT or MRI.

C 3DBiopsy, LLC

Vail
www.3dbiopsy.com
Developed a complete turnkey biopsy system that uses three dimensional (3D) imaging to map the entire prostate gland and identifies any clinically significant cancer with up to 95% accuracy.

5280 Prosthetics

Littleton
www.5280prosthetics.com
5280 hypobaric socket technology increases tissue profusion, physiologically improving limb health.

Abilities Unlimited

Colorado Springs, Denver
www.auiop.com
Provides artificial limbs and custom orthopedic appliances.

Ablacon

Wheat Ridge
www.ablacon.com
Ablacon works to improve catheter technologies in order to make the AFib ablation procedures safer and more efficient: Sensing catheters allow to better control the catheter positioning and intensity of the ablation.

Access Sensor Technologies

Fort Collins
www.accsensors.com
Paper-based diagnostics for industrial and personal environmental monitoring.

Acertara Acoustic Laboratories, LLC

Longmont
www.acertaralabs.com
Independent ISO/IEC accredited medical ultrasound acoustic measurement and testing laboratory.

Aestis, Inc.

Boulder
www.altitudetraining.com/aux/about/aestis
Develops a treatment for obesity through controlled hypoxia technology. The two principal components are the air separation unit and proprietary control system.

AF Therapeutics (AFTx, Inc.)

Westminster
Phase Synchronization mapping provides infinite spatial resolution mapping of Atrial Fibrillation with an ordinary loop (Lasso or Spiral HD) catheter.

AFT

Longmont
www.aftmim.com
Customized metal injection components.

C Agilent Technologies

Boulder, Frederick
www.agilent.com
Provides core electronic and bio-analytical measurement tools to advance life science research. Commercial manufacturing of nucleic acid active pharmaceutical ingredients.

C AktiVax

Broomfield
www.aktivax.com
Developing novel reconstitution safety syringes for vaccines and biologics.

Alligant Scientific

Highlands Ranch
alligantscientific.com
Developing new approaches to socially relevant technical problems in energy and materials science.

C Allison Medical

Littleton
www.allisonmedical.com
Develops a variety of disposable products which serve the healthcare needs of retail/pharmacy, acute, alternate, and home care markets.

C AlloSource

Centennial
www.allosource.org
Develops, processes and distributes life-enhancing bone and tissue allografts to the medical community.

AllPro

Broomfield
www.allprodenal.com
Produces a large selection of non-latex prophylactic cups, prophylactic angles and other dental products.

C Apdyne Medical Company

Denver
www.apdyne.com
Manufactures and distributes the Apdyne Phenol Applicator Kit used to anesthetize the tympanic membrane during in-office myringotomy procedures.

AQ Biomed

Boulder
www.aqbiomed.com
AQ BioMed has made new discoveries about how cells respond to chemical interactions and physical forces caused by biomedical implants. AQ's first program is the AQ shunt, uniquely designed to control over-pressurization inside the eye caused by glaucoma and prevent the onset of blindness.

Archer DX

Boulder
www.archerdx.com
Creates catalog and custom next-generation sequencing (NGS) assays that are purpose-built to identify mutations and gene fusions from clinical sample types.

ArcScan, Inc.

Golden
www.arcscan.com
Developing VHF Ultrasound for comprehensive ophthalmic imaging.

Arcturus Star Products, LLP

Cortez
www.lymphstarpro.com
Pioneering Vibrational Energy Therapy for the wellness and beauty professions. Therapeutic specialty is in the area of lymphatic health.

Arthroventions

Denver
www.arthroventions.com
Developing a family of devices that distend the synovial fluid to improve the accuracy of aspirating and injecting medication into the joint space.

C Articul Bio

Boulder
www.articulusbio.com
Articulus Bio, LLC is a development-stage orthopedic medical device platform focused on total joint replacement.

ASI Medical, Inc.

Centennial
www.asimedical.net
Developer of specialized mobile and integrated dental carts, as well as unique dental instruments for the modern dental office.

Aspero Medical

Boulder
www.asperomedical.com
Developing an endoscopic device that can be used by doctors treating patients with gastrointestinal diseases.

C Aspire Biotech, Inc.

Colorado Springs
www.aspirebiotech.com
Provides contract services for all phases of product development from concept to launch, and produces its own skin sealant and wound-closure adhesives.

Auri-Stim Medical

Denver
www.net1device.com
Offers an alternative therapy for migraine headaches, hormonal migraine, chronic headaches, premenstrual syndrome (PMS), nicotine and narcotics addictions using the NET-1000 device.

Bard Medical

Louisville
www.crbard.com
Leading multinational developer, manufacturer and marketer of innovative, life-enhancing medical technologies in the fields of vascular, urology, oncology and surgical specialty products.

Beckman Coulter

Loveland
www.beckmancoulter.com
Develops and produces instruments for the diagnostic industry. Specializes in the fields of immunocytochemistry, flow cytometry, and microbiology.

Bell Dental Products, LLC

Englewood
www.belldental.com
Designs, develops, and manufactures precision dental equipment based on electric motor technology.

- BioCare Systems, Inc.**
Parker
www.lumiwave.com
Designs, develops and markets the FDA-cleared LumiWave that uses deep-tissue light therapy to decrease pain, accelerate healing and improve quality of life.
- C Biodesix, Inc.**
Boulder
www.biodesix.com
Develops and commercializes blood-based tests that advance the speed and standard of care in oncology. Its diagnostics help patients and their doctors make more informed decisions about treatment based on a patient's unique molecular profile.
- C Biomaterial Device Innovations, LLC**
Colorado Springs
www.biomaterialdevices.com
The company is focused upon commercialization of implantable bioresorbable medical devices based upon proprietary technology.
- BioVision Technologies**
Golden
www.biovisiontech.com
Develops and manufactures micro-visualization solutions that enable endoluminal and minimally invasive medical procedures in both human and veterinary medicine. The imaging technologies and customized micro-endoscope solutions are integrated to reduce incision size and speed healing.
- BodySync, Inc.**
Aurora
www.bodysync.com
Applies evidence-based genetic information to develop personalized products that help individuals achieve their health goals.
- C Bolder Surgical**
Louisville
www.justrightsurgical.com
Developing precisely designed surgical instruments that allow access to confined spaces and often delicate structures.
- Boulder Innovation Group**
Boulder
www.boulderinnovators.com
Develops and manufactures image-guided surgical navigation digitizers and industrial 3D capture and modeling equipment.
- C Boulder iQ**
Boulder
www.boulderiq.com
Boulder iQ is an expert contract consulting firm offering design engineering, development and turnkey manufacturing for consumer, high-technology and medical products, and complete regulatory, clinical, and quality management system services for the medical device and in-vitro diagnostic (IVD) industries. The company is ISO 13485:2016 certified through Boulder BioMed.
- C Brava Diagnostics**
Boulder
www.bravadx.com
Brava Diagnostics is developing and will commercialize rapid diagnostic products for the acute care market, based on the MBio Diagnostics technology platform. The first IVD applications are for cardiac markers, a \$2.3 billion worldwide market. Our multiplex point-of-care tests will be used to assess chest pain and shortness of breath in the emergency department. The next assays will address sepsis, the highest cost disease state in U.S. health systems.
- Broadwest Corporation**
Boulder
www.broadwest.com
Develops and manufactures ergonomic mammography viewing equipment.
- Canberra Industries**
Arvada
www.canberra.com
Manufactures and supplies analytical instruments, systems and services for radiation detection and radiation monitoring.
- CardioNXT**
Westminster
www.cardionxt.com
Developing a portfolio of technologies that enable the delivery of therapy more accurately and cost effectively in catheter ablation procedures to treat cardiac arrhythmia.
- Care Electronics, Inc.**
Broomfield
www.medicalshoponline.com
Offers a range of electronic monitoring and alarm equipment for the home health and long term care markets.
- Car-May, LLC**
Berthoud
www.car-may.com
Provides pumping capability, fluid measurement, and flow control all in one compact module.
- C Cerapedics**
Westminster
www.cerapedics.com
Developing and commercializing novel osteobiologic products based on a proprietary small peptide technology, P-15™ on an organic bone mineral (ABM).
- C CereScan**
Littleton
www.cerescan.com
Combines brain imaging technologies with a patient-centered model of care to provide the highest level of neurodiagnostics available.
- Certa Dose**
Denver
www.certadose.com
Unique measuring system that helps eliminate dosing errors in pediatric patients.
- C ClaroLabs**
Lafayette
www.clarolabs.com
ClaroLabs is a Mass Spectrometry Lab specialized in measuring drugs in biological fluids for toxicology and medication compliance testing for pain, and primary care practices. The company offers full clinical chemistry and Pharmacogenetic testing.
- Clean Room Devices, LLC**
Westminster
www.cleanroomdevices.com
Manufactures products that are engineered specifically for "clean room" environments.
- C ClearSight**
Aurora
www.clearsight.io
Developing an intraocular lens to give ophthalmologists a comprehensive solution to reduce posterior capsule opacification. The ClearSight IOL features Sharklet, a micropattern designed to redirect cellular migration away from the field of vision.
- CME**
Golden
www.cmeamerica.com
Manufactures ambulatory infusion devices.
- Cochlear Americas**
Centennial
www.cochlearamericas.com
Global leader in implantable hearing solutions. Manufacturer of Nucleus cochlear implants and the Baha programmable bone conduction system.
- C Colibri Heart Valve**
Broomfield
www.colibrihv.com
Researches and develops novel heart valve technologies.
- Colorado Precision Products, Inc.**
Boulder
www.coloradoprecision.com
Provides diamond turned and polished optics/ parts. Fabricator of X-ray telescope optical components. Produces and offers air bearing LVDT contact linear measurement systems, .05 microinch resolution.
- C Colorado Therapeutics**
Broomfield
www.co-therapeutics.com
Developing xenogenic biologic tissue matrix products for a broad range of soft tissue reinforcement, regenerative, and additional applications.
- C ConMed Corporation**
Centennial
www.conmed.com
Designs and manufactures RF electrosurgical generators and accessories of the highest quality, safety and value for use in surgical procedures performed in virtually every hospital, surgery center and physician's office.

Connexall

Boulder
www.connexall.com
Enterprise-grade event management and control platform that delivers hospital-wide interoperability to people, systems, tasks, and devices.

CoorsTek

Golden
www.coorstek.com
Custom engineering, materials expertise, operational excellence, and rapid execution.

CoramiR Biomedical

Superior
www.coramir.com
Developing non-invasive biomarker tests to guide treatment decisions in heart-failure patients.

Corgenix Medical Corporation

Broomfield
www.corgenix.com
The Colorado facility is engaged in research, development, manufacture, and marketing of in vitro diagnostic products for use in disease detection and prevention.

Corvectra, Inc.

Fort Collins
www.corvectra.com
Developing clinical tools that enable healthcare professionals to non-invasively diagnose and treat patients with a single point of care device.

Cuattro

Loveland
www.cuattro.com
Flat panel digital radiography systems that improve efficiency and workflow, increase productivity and lower costs.

DataWave Technologies Corporation

Loveland
www.dwavetech.com
Manufactures a wireless and battery-free device for acquiring and transmitting data from electrodes and other biosensors to a receiver placed meters away for electrophysiology, neurophysiology and physiology related research on both humans and large animals.

C dBMEDx

Littleton
www.dbmedx.com
Developing next-generation, automated, wireless 3D ultrasound devices.

Denver Optic Company

Englewood
www.eyeprosthethics.com
Specializes in the fitting and fabrication of two types of ocular prosthesis.

DePuy Synthes, Companies of Johnson & Johnson

Monument
www.synthes.com
Develops, produces and markets instruments, implants and biomaterials for the surgical fixation, correction and regeneration of the human skeleton and its soft tissues.

Desert Glass Works

Colorado Springs
www.dgw.com
Manufactures quartzware for the medical and research industries.

Die Cut Technologies

Northglenn
www.diecuttech.com
Offers precision material conversion, skilled assembly and manufacturing efficiencies, including cleanroom facilities.

Diversatek Healthcare

Highlands Ranch
www.diversatekhealthcare.com
Designs, manufactures and distributes diagnostic products focused on gastroenterology.

DNTLworks Equipment Corporation

Centennial
www.dntlworks.com
Manufactures portable, mobile and self-contained dental systems.

Double Black Imaging

Westminster
www.doubleblackimaging.com
Manufactures clinical review monitors that are specially designed for versatile clinical healthcare applications.

C Double Helix

Boulder
www.doublehelixoptics.com
Develops and commercializes computational optical-digital technologies used in range estimation, super-resolution microscopy and 3D imaging. Double Helix's core technologies include the Double Helix-Point Spread Function method for 3D super-resolution imaging.

dpiX, Inc.

Colorado Springs
www.dpix.com
Produces high-resolution amorphous silicon (a-Si) sensor arrays for medical X-ray imaging.

E.I. Medical Imaging

Loveland
www.eimedical.com
Manufacturer of highly portable and ruggedized ultrasound devices for the veterinary industry.

Edgeport Surgical

Boulder
Medical product development and investment company.

EJ BioMed - A Division of Eldon James Corporation

Denver
www.eldonjames.com
Manufactures, assembles and packages PVC Free tubing and connectors in a single cleanroom environment.

Electronic Materials, Inc. (EMI)

Breckenridge
www.emiuv.com
Offers a complete line of EMCAST UV adhesives, epoxies, sealants, encapsulants and coatings. EMI also offers room temperature, thermal and Visible light cure adhesive systems.

Element

Longmont
www.element.com
Medical device testing laboratory specializing in package testing, accelerated aging, photostability, UV, temperature/humidity, vibration, shock testing services.

Eleven P15

Aurora
Diagnostic biotech company enabling early diagnosis and treatment of idiopathic pulmonary fibrosis.

C Ellab, Inc.

Denver
www.ellab.com
Ellab manufactures wireless, real-time data loggers and wired thermocouple validation systems with temperature, humidity, pressure, vacuum, conductivity and CO2 sensor options. Ellab also offers on-site qualification, validation and calibration services for thermal validation processes ranging from -196°C to 400°C. Environments often include freezers, incubators, stability chambers, autoclaves, and ovens.

Encision, Inc.

Boulder
www.encision.com
Designs and manufactures innovative surgical devices. Developed AEM® Laparoscopic Instruments to improve electrosurgery and reduce the chance for patient injury in minimally invasive surgery.

C EndoShape, Inc.

Boulder, Aurora
www.endoshape.com
Manufactures surgical and medical instruments focusing on shape memory polymer devices for endoluminal application.

C enlightenVue

Denver
www.enlightenvue.com
Specializes in bringing micro-endoscope technology to the medical device market by innovating low-cost disposable alternatives.

Euvive, LLC

Aurora
Euvive strives to provide affordable point-of-care (POC) biomedical diagnostic systems through collaborative work of seasoned scientists and engineers.

C Evergreen Research, Inc.

Golden
www.evergreenresearch.com
BE BRILLIANT™ Your "One-Stop-Shop" for medical device design, approval & manufacturing. Mechanics, electronics, software, fluidics, optics, ultrasound, RF & sterile disposables for hospital, emergency & home healthcare settings. Evergreen Research provides engineering, regulatory affairs, quality systems, production & distribution with experienced personnel to make it happen, all the way.

C Eximis Surgical, Inc.

Louisville
www.eximissurgical.com
Developing a novel surgical platform for the safe and fast removal of large specimens through small laparoscopic/robotic incisions.

Extreme Diagnostics

Boulder
www.extremediagnosics.com
Develops noninvasive measurement systems, including optical systems such as custom holographic and interferometric instruments. Specializes in structural health monitoring, nondestructive testing, and materials processing.

Falcon Rehabilitation Products

Denver
www.falconrehab.net/products
Designs and builds high quality, innovative quadriplegic seating systems and accessories (Falcon Rehabilitation Products, LaBac Seating Systems, Gel Ovarions).

Firefly Medical, Inc.

Fort Collins
www.fireflymedicalinc.com
Designs and develops innovative durable medical equipment for clinical healthcare markets.

Fischer Imaging

Wheat Ridge
www.fischerimaging.com
Fischer Imaging is focused on improving outcomes for cancer patients with advanced imaging. Our proprietary technology doubles the resolution and contrast of today's mammography using less than half the x-ray dose and removes the need for painful breast compression.

Fischer Medical

Wheat Ridge
www.fischermti.com
Designs, manufactures, and markets cardiac and otolaryngology devices.

FlashBack Technologies

Longmont
www.flashbacktechnologies.com
Fast, non-invasive detection of acute blood loss volume and prediction of cardiovascular collapse in emergency situations.

Fluonic

Boulder
www.fluonic.com
Develops infusion therapy systems with disposable sensors for OEM and proprietary pumping systems.

C Footbeat

Grand Junction
www.footbeat.com
Footbeat has fundamentally changed medical and athletic recovery through its unique method of circulatory enhancement. By applying precise, cyclic pressure to the arch of the foot, Footbeat increases blood velocity to alleviate the symptoms of common medical conditions and enhance athlete's ability to prepare, repair, and recover for their sport. Footbeat is easy-to-use, non-invasive, and ideal for travel.

C ForCast Orthopedics

Longmont
www.forcastortho.com
Focused on improving total joint patient care, ForCast Orthopedics will incorporate antibiotic reservoir and novel infusion system within a total new prosthesis to replicate improved patient outcomes with simpler pain management.

Galaxy Ophthalmics

Denver
www.galaxyophthalmics.com
Developing technologies related to new therapies for Glaucoma, Wet and Dry Macular Degeneration and Diabetic Retinopathy.

gaugewear

Boulder
www.gaugewear.com
Using radiometric thermometry, gaugewear is creating a wearable, non-invasive, core body temperature sensor.

Genesee BioMedical, Inc.

Denver
www.geneseebiomedical.com
Manufactures cardiac surgery instruments and devices.

Genovus Biotechnologies, Inc.

Louisville
www.enovusbiotech.com
Develops biophysical medicine-based treatments for neuromuscular conditions. Its lead developmental product is a non-invasive, neuromodulating medical device for the treatment of functional symptoms of multiple sclerosis.

Gnathodontics, Ltd.

Lakewood
www.gnatho.com
Specializes in functional dentistry, advanced implant work, precision partial dentures, combination cases and metal-free fixed restorations.

C Green Sun Medical

Fort Collins
www.greensunmedical.com
Develops innovative treatments to address Adolescent Idiopathic Scoliosis (AIS) through non-fusion scoliosis solutions.

Groesanoak Product Development, Inc.

Frederick
www.groesanoak.com
Creates innovative proprietary new medical devices focusing on areas of injury management, neonatal care and performance monitoring.

C Guided Surgical Solutions

Denver
www.guidedsurgicalsolutions.com
Guided Surgical Solutions utilizes state of the art software & 3D printing technology to ensure a more safe, accurate, and efficient surgery. Surgical outcome is more predictable for follow-up treatment resulting in the best possible aesthetic and functional results for your patient.

Hach Company

Loveland
www.hach.com
Manufactures and distributes analytical instruments and reagents used to test the quality of water and other aqueous solutions.

C HeartHero

Denver
hearthero.io
Developing automated external defibrillator.

HG Medical Technologies

Fort Collins
hgmedtech.com
Startup in medical device development.

Hirsh Precision Products, Inc.

Boulder
www.hirshprecisionproducts.com
Manufactures precision-machined and assembled components for the medical industry.

Impressio, Inc.

Aurora
www.impressio.tech
Impressio focuses on developing liquid-crystalline elastomers (LCEs) for use in load-bearing orthopedic applications such as knee and total disk replacement.

InDevR, Inc.

Boulder
www.indevr.com
Develops and manufactures biomedical instruments including molecular diagnostic assays, virus measurement systems and detection technologies for micro-arrays.

Infinity Laboratories

Castle Rock
www.infinitylaboratories.com
Infinity Laboratories operates from a 25,000+ sq ft state-of-the-art facility. With enhanced focus in the areas of chemical and microbiological sciences we support manufacturers and researchers throughout the world.

Infinity Photo-Optical Company

Centennial
www.infinity-usa.com
Manufactures long-distance and continuously-focusable microscope technology, macro systems, internal-focusing devices and other lenses.

Instec, Inc.

Boulder
www.instec.com
Manufactures precision temperature controllers and microscope hot stage systems for temperature cycling, food sciences, materials characterization, forensics, polymers and liquid crystals and microbiology.

Intelligent Imaging Innovations (3i)

Denver
www.intelligent-imaging.com
Designs and builds systems around the newest automated fluorescence microscopes and the most advanced peripheral devices.

Katharos

Aurora

A medical device used in patients during hemodialysis to remove phosphates that lead to high rates of cardiovascular disease and death in this population.

C Kestrel Labs, Inc.

Boulder

www.kestellabs.com

Combines internal research and development projects with consulting and contract development of innovative patient monitoring concepts and other medical technologies.

Lenox MacLaren Surgical Instruments

Louisville

www.lenoxmaclaren.com

Manufactures precision orthopedic and neurological surgical instruments.

Lifeboard

Fort Collins

Device that captures, displays and records all essential data during time-critical medical events.

Liquid Logic

Aurora

www.liquid-logic.com

Developed a proprietary "digital microfluidics" technology based on electrowetting that precisely manipulates small droplets within a sealed disposable cartridge to perform complex laboratory protocols.

C LivaNova

Arvada

www.livanova.com

Global medical device company and a leader in the treatment of cardiovascular diseases.

Logisens Corporation

Fort Collins

www.logisens.com

Develops biosensor and software technology, enabling a significant breakthrough in realtime measurement and reduction of stress.

Lumed

Denver

www.lumedscience.com

Specializes in creating medical and dental devices that integrate light sources to improve visibility in the field of work.

Magnelab, Inc.

Longmont

www.magnelab.com

Manufactures custom magnetic components (transformers/inductors) for the medical field.

Mallinda, LLC

Aurora

www.mallinda.com

Advancing the state of polymer with the development of the first hard plastic that can be repeatedly molded and reshaped at mild temperatures.

C MBio Diagnostics

Boulder

www.mbiidx.com

Develops a low-cost, high sensitivity, multipathogen detection system for diagnostics.

C MD MedTech, LLC

Englewood

www.mdmedtech.com

Developer and manufacturer of medical ultrasound imaging components and finished devices for traditional and custom applications.

Med-Botics

Colorado Springs

www.med-botics.com

Development of medical devices for prevention of apnea, hypoxemia, and overdose from medication causing respiratory depression.

C Medtronic

Boulder, Louisville

www.medtronic.com

Together, with our partners in the healthcare industry, we are committed to developing meaningful innovations. Medtronic has ~2,400 employees in Colorado who develop life-changing medical technologies and solutions such as surgical robotics, energy based surgical instruments, respiratory and patient monitoring solutions, interventional lasers, computer-based diagnostic & surgical visualization tools, and surgical imaging technologies. Let's take healthcare Further, Together.

Mesa Laboratories, Inc.

Lakewood

www.mesalabs.com

Provides dialysis meters and related supplies to dialysis clinics world wide.

Metabiomics

Aurora

www.metabiomics.com

Developing a non-invasive microbiome test for the earlier and more accurate detection of colon polyps and colorectal cancer. Also developing services for characterizing gut microbiome health and disease.

Metamatrix, LLC

Boulder

www.zorbent.com

Manufacturers of ZORBENT, an absorbent designed to leave no residue, reducing the risk associated with slippery surfaces. It is completely safe to use and represents no health hazard.

C MFB Fertility, Inc.

Boulder

www.mfbfertility.com

Commercializing an in vitro diagnostic allowing couples to track hormone cycling involved in the ovulation process and track when a female is most fertile.

Micro Imaging Solutions, LLC

Denver

www.micro-imaging.us

Developed an innovative, patented technology that can be utilized in the manufacture of micro-digital CMOS cameras.

Microlife Medical Home Solutions, Inc.

Golden

www.mimhs.com

Proprietary hand-held medical devices and systemic solutions offer healthcare providers evidence-based and practice-tested methods for accurate assessment, diagnosis, and treatment of cardiovascular and metabolic diseases.

C Mighty Oak Medical

Englewood

www.mightyoakmedical.com

Develops cutting-edge spinal technologies for use in spine surgery.

Mikron Corporation

Englewood

www.mikron.com

Supplies transfer machining systems for complex parts, cutting tools with high performance standards, self medication and diagnostic devices.

Mile High Ophthalmics

Aurora

Ophthalmic device for enhanced precision in cataract surgery.

Mind Studios

Colorado Springs

A full service product design and research studio housed within the University of Colorado at Colorado Springs. Offers concept generation, advanced prototyping, engineering and consumer research, human factors design and manufacturing solutions.

NEBA Health, LLC

Boulder

www.nebahealth.com

Develops neuropsychiatric medical devices, such as Neba™, an experimental, small format EEG-based device being studied under an IDE from the FDA.

Neuro Assessment Systems

Littleton

www.neuroassessments.com

Provides an objective brain-based measure of neurocognitive symptoms associated with a wide range of brain health issues including concussion and Alzheimer's disease.

Neuromonics, Inc.

Westminster

www.neuromonics.com

Manufactures and distributes clinically proven devices to treat tinnitus. The Sanctuary provides situational relief for those suffering from mild to moderate tinnitus.

Nova Biolabs

Arvada

www.novabiolabs.com

Nova Biolab's core mission is to make molecular testing standard of care. We are focusing on targeted NGS assays based on liquid biopsies (e.g., blood, urine) for cancer diagnosis, treatment and post-recovery monitoring, as a cost-effective and minimally invasive means to get patients on the right treatment path as soon as possible.

nSpire Health, Inc.

Longmont
www.nspirehealth.com
Develops, manufactures and markets respiratory care products and services focused on cardiopulmonary diagnostics, respiratory core lab services, and disease management solutions.

C OptiEnz Sensors

Fort Collins
www.optienz.com
Revolutionizing measurement capabilities for organic chemical concentrations in aqueous solutions; now providing continuous, real-time, in-place sensor systems.

C Orbit Genomics

Boulder
www.orbitgenomics.com
Orbit Genomics™, Inc. is an early stage genomics company developing diagnostic tests and services based on repetitive sequences in DNA, known as microsatellites. Microsatellites occur throughout the genome in both coding and non-coding regions and they mutate 10,000 times more rapidly than SNPs and other genetic mutations, representing both inherited and acquired risk. The company's first product will be a lung cancer risk assessment test.

C Orthomi, LLC

Boulder
www.jortek.com
Orthomi develops novel orthopedic devices primarily in the sports medicine market. The primary objective is preservation and restoration of patient's musculoskeletal system through medical, surgical, and rehabilitative means.

C Osypka Medtec, Inc.

Longmont
www.osypka-medtec.com
Works with medical device manufacturers and suppliers to manufacture innovative, quality product solutions or components for companies around the United States.

Oval Window Audio

Nederland
www.ovalwindowaudio.com
Produces induction loop assistive listening systems and visual and vibrotactile technologies that help deaf and hard of hearing individuals.

Paragon 28

Englewood
www.paragon28.com
Addressing the unmet and under-served needs of the foot and ankle market segment.

PARÉ Solutions, LLC

Centennial
www.paresurgicalsolutions.com
Develops surgical instruments such as the Quik-Stitch endoscopic suturing system.

Parker Medical

Highlands Ranch
www.parkermedical.com
Provides airway management products that make intubation safer for the patient and easier for the medical professional.

Peak Analysis & Automation Ltd.

Colorado Springs
www.paa-automation.com
Manufactures robots, special equipment, and turnkey automated systems for a variety of industries including: biotech, electronics, medical, semiconductor, etc.

Peddle Master, Inc.

Johnstown
www.peddlemaster.com
Designs and manufactures handicapped driving aids. The Peddle Master is totally portable and can be installed and removed in a matter of seconds.

Pernicka Corporation

Fort Collins
www.pernicka.com
Offers analytical testing that meets or exceeds the requirements of MIL-STD 750/883 method 1018 and 45662A.

C PharmaJet, Inc.

Golden
www.pharmajet.com
Developer of needle-free jet injection technology, optimized for vaccine administration, with two device platforms and regulatory clearance for all three tissue depths.

C Phase Three Product Development

Fort Collins
www.phasethreedev.com
Technology and product development of microfluidics based devices and systems.

Philips

Colorado Springs
www.philips.com
Develops, manufactures, markets and distributes single-use medical devices used in minimally invasive procedures within the cardiovascular system.

Point Designs

Louisville
www.pointdesignsllc.com
Point Designs strives to innovate in the field of upper limb prosthetics.

Porta-Lung, Inc.

Lakewood
www.portalung.com
Provides non-invasive ventilator support for long-term patients who need more portability.

Precision Biopsy

Aurora
www.precisionbiopsy.com
In partnership with Allied Minds, developing technology for the accurate diagnosis of prostate cancer which uses advanced spectroscopy imaging techniques in combination with tissue biopsy.

Preferred Medical Products, Inc.

Englewood
www.preferredmedicalproducts.com
Manufactures stainless steel medical components for hypodermic needles and lancet type products.

Prescott's, Inc.

Monument
www.surgicalmicroscopes.com
Provides reconditioned operating microscopes and allied accessories that function as intended by the original equipment manufacturer.

C Prima-Temp, Inc.

Boulder
www.prima-temp.com
Innovative biometric approaches to early disease detection and reproductive medicine through the application of 21st century thermometry.

Products Group International, Inc.

Lyons
www.productsgroup.com
Researches, develops and engineers ultrasound medical and veterinary equipment.

Propel Labs, Inc.

Fort Collins
www.propel-labs.com
Designing the next generation of bio-instrumentation tools. Focused on research tools, such as single cell analyzers and cell sorters.

ProTechSure Scientific, Inc.

Aurora
www.protechsure.com
Dedicated to providing scientifically validated skin protection.

Protomed, Inc.

Denver
www.protomed.net
Creates accurate anatomical models from CT scans by using the latest imaging software and laser driven technology.

Prototype Casting, Inc.

Denver
www.protcast.com
Manufactures non-ferrous prototype parts for the medical industry, specializes in RPM (Rubber Plaster Mold) casting, sand casting and rapid investment casting.

QalibreMD

Boulder
www.qalibre-md.com
Provides design engineering and manufacturing services for custom instrumentation development. Commercialized a line of quantitative MRI phantoms for standardization of scanners and protocols involved in precision medicine.

Quadric Biomed, LLC

Colorado Springs
www.quadricbiomed.com
Quadric BioMed, LLC is a medical device company developing novel dental implants that mimic the emergence profile of natural teeth. Quadric BioMed's patented implant system integrates an eccentrically-shaped platform and anchor screw in the jaw and is the only technology that can anatomically match the profile of the teeth as they emerge from the bone.

QuSpin, Inc.

Louisville
www.quspin.com
Develops very high performance atomic sensors.

Radiological Imaging Technology, Inc.

Colorado Springs
www.radimage.com
Provides clinical and research physicists with a high precision automated QA tool for advanced radiation therapies.

Rand-Scot, Inc.

Fort Collins
www.randscot.com
Designs and manufactures products for persons with disabilities including BBD Cushions and Mattress Overlays, EasyPivot Patient Lifts, and Saratoga Exercise Products.

Research Electro-Optics

Boulder
www.reoinc.com
Volume manufacturer of high precision thin film coatings, optics and optomechanical assemblies for the ultraviolet through the long-wave infrared.

Rocky Mountain Instrument Company (RMI)

Lafayette
www.rmico.com
Designs and manufactures optics and coatings (ultraviolet through far infrared) for the medical industry.

Rocky Mountain Orthodontics, Inc. (RMO)

Denver
www.rmortho.com
Serves all areas of orthodontics including pediatric orthodontic prevention, interceptive pediatric orthodontics, mixed dentition orthodontics, adult orthodontics, reconstructive dentistry orthodontics, TMJ orthodontics, surgical orthodontics and breathing/sleep problem related orthodontics.

Sapien, LLC

Fort Collins
www.sapienllc.com
Aims to enhance the human experience by providing innovative solutions to human problems using sensory substitution, human-machine interfaces, and human-machine integration.

C Sapphire Technology, LLC

Denver
www.sapphire-technology.com
The SGS Instrument line is developed specifically to overcome the inherent composite adhesion and pullback issues associated with other composite instruments currently at market in the dental field.

Sartorius

Arvada
www.sartorius.us
Designs and manufactures analytical balances, electrochemistry instruments, moisture analyzers, and titration controllers.

Science Care

Denver
www.sciencecare.com
Provides human tissue for medical research and education.

Scientech, Inc.

Boulder
www.scientech-inc.com
Manufactures analytical instruments: semi-micro balances, analytical balances, semi-analytical balances, and toploading balances for the medical industry.

C Securisyn Medical

Highlands Ranch
www.securisyn.com
Developing a safer system for delivering life-sustaining oxygen to mechanically ventilated patients.

Shape Ophthalmics, LLC

Aurora
Develops state of the art devices and novel treatments for ophthalmic conditions through the application of advanced smart materials.

C Sharklet Technologies, Inc.

Aurora
www.sharklet.com
Engineers surface technologies (Sharklet™) that controls the growth of dangerous bacteria.

C Shippert Medical Technologies an Innovia Medical Company

Centennial
www.shippertmedical.com
Manufactures and distributes medical disposable products and instruments.

Sinopsys Surgical

Boulder
www.sinopsysurgical.com
Lacrimal Sinus Diversion offers functional therapy for sufferers of chronic sinusitis with minimal response to current pharmaceutical and surgical options.

C SI-Technology, LLC

Fort Collins
www.si-technology.co
Orthopedic medical device company developing new techniques and implants as part of the patent pending SI-DESI™ Sacroiliac Joint Implant System to help assist physicians address the need for treatment, fixation and proper fusion of painful and dysfunctional sacroiliac joints (SIJ).

C Snoasis Medical

Denver
www.snoasismedical.com
Focused on the development and commercialization of regenerative tissue and medical device products for use in dental surgery.

C SoftRay, Inc.

Fort Collins
www.softraybiodetection.com
SoftRay develops, licenses, and manufactures systems for the detection of microorganisms for industrial applications requiring sterile fluids as well as for blood products. Currently developing a product for the detection of biocontamination of blood platelet donations prior to transfusion.

Solo-Dex

Boulder
www.solo-dex.com
Developed the Fascile, which allows for a continuous peripheral nerve block in less than 5 minutes.

C SomaLogic, Inc.

Boulder
www.somallogic.com
Uses aptamer array technology and bioinformatics capabilities to discover disease-specific biomarkers and protein signatures. Develops medical diagnostics based on these signatures.

Sonaura

Fort Collins
www.mysonaura.com
Developed an electronic two way communication system between patient and doctor, which represents a major advance in IVF treatment allowing women undergoing IVF treatment to perform their sonograms at home during the follicle stimulation cycle.

Sound Surgical Technologies, LLC/Solta Medical, Inc.

Louisville
www.vaser.com
Offers ultrasonic technologies and related techniques for aesthetic surgery.

ST Cardio Technologies, LLC

Broomfield
Designs, develops, and manufactures electronic medical devices for use in electrophysiology cardiac cath labs.

St. Renatus, LLC

Fort Collins
www.st-renatus.com
First needle-free, dental anesthetic suitable for use in procedures involving most of the upper teeth. Uses an accurate and sophisticated method to anesthetize the upper teeth without the risk and pain of a needle.

StnDrd Infusion

Parker
www.stndrdinfusion.com
Early-stage medical device company in the drug infusion market with a standardized pump capable of performing the product requirements currently met by syringe, cassette, and ambulatory pump configurations.

Stryker Sports Medicine

Greenwood Village
www.stryker.com
Stryker's Sports Medicine business delivers a wide range of innovative sports medicine implants, instrumentation, resection and biologic solutions.

Suez

Boulder
www.geinstruments.com
Manufactures instruments used to measure total organic carbon (TOC) in water for pharmaceutical applications and medical research.

SummitDx

Aurora
Developed a saliva-based molecular test for head and neck cancer.

Sundance Diagnostics, Inc.

Boulder
www.sundancedx.com
Working to develop the world's first genetic safety tests to predict a patient's risk of antidepressant-induced suicidal thinking or behavior.

Sunrise Medical, Inc.

Longmont
www.sunrisemedical.com
Provides home healthcare products including wheelchairs, respiratory, daily living aids, and speech augmentation devices.

Supreme Cable Technologies, Inc.

Denver
www.supremecable.com
Manufactures quality custom cable assemblies and wire harnesses.

C Surgical Coatings, LLC

Sedalia
www.surgicalcoatings.com
Surgical Coatings develops and applies advanced coatings onto medical devices. The purpose of the coatings applied include insulation, lubricity, abrasion resistance and a multitude of other customer needs.

SurgiReal Products

Fort Collins
www.surgireal.com
Creates and introduces innovative products and methods for surgical training.

Swan Valley Medical, Inc.

Aurora
www.swanvalleymedical.com
Developed a line of urology instruments that allow for safer, faster, and more economical treatment of common urological disorders.

Symbios Technologies, Inc.

Fort Collins
www.symbiosplasma.com
Commercializing an aqueous plasma disinfection and advanced oxidation technology platform with applications in fluid purification, plasma medicine, and specialty manufacturing to improve human and environmental health as well as the economics and sustainability of food and beverage, agricultural, energy, and pharmaceutical production processes.

Tapeless Wound Care Products, LLC

Englewood
Manufactures and distributes a system of patented secondary wound dressing retention devices, offering an alternative to traditional secondary wound dressings, for both humans and animals.

Tartan Orthopedics, Ltd.

Northglenn
www.tartanortho.com
Manufactures sacro lumbar belts, dorsal lumbar belts (corsets and moldable inserts), Ottenberg style elbow splint, pelvic traction belts, arm slings, cervical collars, acromioclavicular splints, and ankle supports.

TDA Research, Inc.

Wheat Ridge, Golden
www.tda.com
Provides automated catalyst testing equipment to large chemical companies and national laboratories.

TeraBAT

Longmont
www.terabat.com
Developing a disruptive detection platform based on terawaves technologies that will revolutionize disease diagnosis and patient care.

C Terumo BCT

Lakewood
www.terumobct.com
A global leader in blood component and cellular technologies, it is the only company with the unique combination of apheresis collections, manual and automated whole blood processing, and pathogen reduction coupled with leading technologies in therapeutic apheresis and cell processing.

TheraTogs, Inc.

Telluride
www.theratogs.com
Produces an orthotic undergarment and strapping system that gives clients with sensorimotor impairment a new modality for improving postural alignment and stability.

Thinklabs Medical, LLC

Centennial
www.thinklabs.com
Creates digital stethoscopes, including One, the smallest, most powerful stethoscope in the world.

Thrombo Therapeutics

Aurora
Developing diagnostic tools to help assess treatments for traumatic bleeding.

Tissue Fusion

Colorado Springs
Surgically fuses tissues together using laser energy instead of staples or sutures.

Touch of Life Technologies, Inc. (ToLTech)

Aurora
www.toltech.net
Develops procedural simulators in the areas of orthopedics, gastroenterology, rheumatology, radiology, ophthalmology, and general surgical procedures.

C Trans1

North Carolina
www.trans1.com
Seeks to develop and commercialize elegant and minimally-invasive surgical solutions to address spinal pathologies.

Transtracheal Systems, Inc.

Englewood
www.tto2.com
Develops and manufactures innovative respiratory therapy products that advance medical therapy for persons requiring continuous supplemental oxygen, including the SCOOOP transtracheal oxygen therapy system.

C Transverse Medical, Inc.

Evergreen
www.transversemedical.com
Developing the POINT-GUARD™ Embolic Protection System for cerebral and distal embolic protection during cardiovascular percutaneous interventions and surgical procedures.

Triple Endoscopy

Aurora
Modified a medical endoscopic technique for pediatric and created a new multi-use endoscope for use in pediatrics and adults.

C TriSalus Life Sciences

Westminster
www.trisaluslifesci.com
Developing advanced liver cancer infusion systems that overcome the limitations of traditional tools and delivery methods.

TRS, Inc.

Boulder
www.trsprosthetics.com
Develops, manufactures, and markets body-powered prosthetic devices. Designs and builds technology for persons missing hands.

Ultrathera Technologies, Inc.

Colorado Springs
www.ultrathera.com
Applying advanced technologies to physiological and neurological needs. Maker of GyroStim™.

C Vaporox

Denver
www.vaporox.com
Vaporox, Inc. was formed to commercialize Vaporox Hyperoxia Therapy (VHT™), a patented and FDA-510K-cleared technology that represents a breakthrough in treating 7 different types of skin wounds, including diabetic foot ulcers (DFUs) and pressure ulcers (bed sores).

Veramarx, Inc.

Aurora
www.veramarx.com
Focus to become the leading provider of credible clinical and scientific information, reliable and accurate diagnostic tools and effective treatment options for Lyme disease.

Vista LifeSciences

Parker
www.vistalifesciences.com
Innovative healthcare technology solutions for global healthcare challenges.

Vitan-Biotech, LLC

Aurora
www.vitan-biotech.com
Specializes in the development and commercialization of life science instrumentation, novel biosensing systems and diagnostic devices.

WalkMed, LLC

Aurora
www.walkmed.com
Offers solutions for ambulatory infusion therapy and pain management.

Wi Medical Device Development

Englewood
www.wiinc.net
Designs and engineers medical devices, including innovative services such as laser welding, assay design, and air bubble management.

C Zimmer Biomet Spine
Broomfield
www.zimmerbiomet.com
Leading medical device manufacturers, Zimmer and Biomet, join to offer innovative orthopedic medical devices and joint replacement.

Zynex Medical, Inc.

Englewood
www.zynexmed.com
Offers electrotherapy products, utilizing various methods of non-invasive muscle stimulation and electromyography technology, Interferential Current (IFC) and Transcutaneous Electrical Nerve Stimulation (TENS).

BIOTECH, PHARMA & RELATED

C AbbVie

Texas
www.abbvie.com
Combines advanced science with expertise to make strides in drug and treatment discovery.

ADA Technologies, Inc.

Littleton
www.adatech.com
Development and commercialization of innovative technologies.

Aerophase, Inc.

Longmont
Aerophase Inc is a specialty pharmaceutical company that is leading the effort to treat lung cancer with drugs delivered as aerosols directly into the lungs.

C Agilent Technologies

Boulder, Frederick
www.agilent.com
Develops and manufactures therapeutic oligonucleotides.

C Allander Biotechnologies

Aurora
www.allanderbiotech.com
Developing novel therapeutics for oral mucositis.

Allergan, Inc.

Highlands Ranch
www.allergan.com
Multi-specialty health care company focused on discovering, developing and commercializing innovative pharmaceuticals, biologics, medical devices and over-the-counter consumer products.

Allergy Solutions

Erie
www.symbiaallergy.com
Symbia offers a system, to organize, streamline and simplify the delivery of allergy care for non-allergists.

American Allied Biochemical, Inc.

Centennial
www.aablabs.com
Specializes in the purification and distribution of restriction endonucleases enzymes.

C Amgen, Inc.

California
www.amgen.com
Discovers, develops, manufactures and markets human therapeutics based on advances in cellular and molecular biology.

C AmideBio, LLC

Boulder
www.amidebio.com
Focused on providing peptide and protein research reagents and clinical products for a diverse array of research and commercial targets using proprietary Biopure-Process™ technology.

AMP Discovery

Aurora
Therapeutics company focused on developing novel antimicrobial treatments for gram-negative pathogens.

C Ampio Pharmaceuticals, Inc.

Englewood
www.ampiopharma.com
Development-stage biopharmaceutical company focused on the discovery and development of novel therapies aimed at treating common inflammatory conditions for which there are limited treatment options.

ApopLogic Pharmaceuticals, LLC

Aurora
www.apoplogic.com
Focused on the discovery, development, and commercialization of therapeutic products that target apoptotic cell death pathways found in cancers, leukemias and lymphomas.

C Apspida Biosciences

Denver
Virtual biotech proof of concept company.

C ARCA Biopharma, Inc.

Broomfield, Aurora
www.arcabiopharma.com
Specializes in developing and commercializing genetically-targeted therapies for heart failure and other cardiovascular diseases.

Armis Biopharma

Fort Collins
www.armisbiopharma.com
Armis Biopharma is a late-stage clinical biopharmaceutical company with a growing pipeline of targeted anti-infective therapeutics designed to address antibiotic resistance and healthcare-associated infections, a serious and rapidly growing phenomenon.

C Arpeggio Biosciences

Boulder
www.arpegiobiosciences.com
Arpeggio Biosciences leverages state of the art sequencing approaches coupled to powerful machine learning to uncover novel insights into a compound's biological mechanism of action.

C Array Biopharma

Boulder, Longmont
www.arraybiopharma.com
Discovers, develops and commercializes targeted small molecule drugs to treat debilitating and life-threatening diseases such as cancer.

C Atara Biotherapeutics

Aurora
www.atarabio.com
Focused on developing meaningful therapies for patients with severe and life-threatening diseases. Product candidates: (a) allogeneic or third-party derived antigen-specific T-cells, and (b) molecularly targeted biologics.

C Atlas Biologicals, Inc.

Fort Collins
www.atlasbio.com
Manufacture, market and distribute animal sera and cell culture reagents.

Aurora Oncology

Aurora
www.auroraoncology.com
Aurora Oncology is developing drugs to treat superficial bladder cancer and to treat drug resistant bacterial infections.

Avidity, LLC

Aurora
www.avidity.com
Develops and sells molecular affinity tools for connecting molecules.

C AxImmune

Fort Collins
www.aximmune.com
We put all of our energy and experience into being your partner of choice. We create value for customers through manufacturing excellence, reliable quality and innovative science. Our people are the experts that our customers enjoy working with.

C Aytu BioScience

Englewood
www.aytubio.com
We truly offer our customers an end-to-end partnership for the research, development and manufacture of small molecule therapeutics at every stage of the drug lifecycle.

C BCell Solutions, Inc.

Colorado Springs
Established to further research and develop a new drug therapy for the various forms of autoimmune diseases, neurodegenerative diseases, and cancer.

C Biogen

Massachusetts
www.biogen.com
Biogen discovers, develops, and delivers worldwide innovative therapies for people living with serious neurological and neurodegenerative diseases.

Biomimetix JV, LLC

Englewood
www.biomimetixpharma.com
A biopharmaceutical corporation developing compounds for the treatment of various disease and health care treatment classifications such as radiation toxicity incurred during the treatment of cancer.

C BioPlx

Boulder
www.bioplax.com
BioPlx is an advanced microbiomics company developing non-antibiotic methods for the control of infectious disease, including multiple-drug resistant "super-bugs". The company employs targeted microbiological agents along with nutrient, and signaling factors to create unique and protectable formulations.

C BioResponse, LLC

Boulder
www.bioresponse.com
Researches, develops and commercializes dietary supplements for better absorption and functional foods.

- BioServe Space Technologies**
Boulder
www.colorado.edu/engineering/BioServe
Specializes in conducting microgravity life science research and designing and developing space flight hardware.
- C Boulder BioTechnology, Inc.**
Boulder
www.bolderbio.com
Boulder BioTechnology is a clinical stage protein engineering company dedicated to providing patients with easier to use, safer, and more cost effective protein pharmaceuticals for the treatment of their disease.
- C Bond Pets**
Aurora
www.bondpets.com
In a process similar to craft brewing, we start with live cells from an animal (no slaughter required) and feed them a nutrient-rich broth of vitamins and minerals. The same ones an animal would eat on farm and field, only without the pharmaceuticals.
- Boulder Scientific Company**
Mead
www.bouldersci.com
Provides organometallic compounds to the pharmaceutical, polymer, and specialty chemical industries.
- C Brickell Biotech, Inc.**
Boulder
www.brickellbio.com
A clinical-stage pharmaceutical company focused on the development of innovative and differentiated therapeutics for the treatment of skin diseases.
- C Bristol-Myers Squibb**
New York
www.bms.com
A global BioPharma company firmly focused on its mission to discover, develop and deliver innovative medicines to patients with serious diseases.
- C Cambrex**
Longmont
www.cambrex.com
Cambrex is the leading small molecule company that provides drug substance, drug product and analytical services across the entire drug lifecycle. Driven by passion, our pharmaceutical products, expertise and technologies accelerate our customers' small molecule therapeutics into markets across the world.
- C Care Research, LLC**
Fort Collins
www.caresearchllc.com
We offer a wide variety of animal models from rodents, rabbits, dogs, guinea pigs, farm pigs, mini pigs, sheep, goats, horses and cattle and a single point of control in our study directors for a full range of studies.
- CariCord**
Aurora
www.caricord.com
Processing and storage of umbilical cord blood & stem cell products available, anywhere in the world.
- C CBL Biopharma**
Boulder
www.cblbiopharma.com
Offering peptide starting materials, peptide intermediates, and industrial and commercial-scale manufacturing of proprietary and generic GMP and non-GMP peptides.
- Cell>Point**
Centennial
www.cellpointweb.com
Develops novel radiopharmaceutical imaging agents, radiotherapeutic agents and local regional radio/chemotherapeutic drug delivery systems for the diagnosis, treatment and post therapy assessment of cancer, cardiovascular disease, infectious disease and metabolic diseases.
- Cerebral Therapeutics**
Aurora
www.cerebraltherapeutics.com
Combines advanced micro-dosing technology with proprietary medications to precisely deliver treatments to the other side of the blood-brain barrier to improve the lives of patients with uncontrolled neurological disease.
- Cerecin**
Denver, Singapore
www.cerecin.com
Cerecin is a global healthcare company with almost 20 year of innovation and leadership in brain health and target conditions ranging from memory impairment to neurological diseases.
- C Cetya Therapeutics, Inc.**
Fort Collins
www.cetyatherapeutics.com
Commercializes analogs of the class I isoform selective histone deacetylase inhibitor (HDACi) largazole, targeting unmet medical needs, especially in oncology, neurodegeneration, autoimmunity, and hemoglobinopathies.
- CHATA Biosystems**
Fort Collins
www.chatasolutions.com
Manufactures blended reagents, HPLC mobile phases, standards, buffers and dissolution media.
- Click Nucleic Acids, Inc.**
Boulder
www.clicknainc.com
Combining thiol-ene-based click chemistry and oligonucleotide synthesis to produce a new class of oligonucleotide and polynucleotide derivatives.
- C ClinImmune Labs**
Aurora
www.clinimmune.com
Comprises five laboratories to provide services to kidney, heart, lung, pancreas, and hematopoietic stem cell transplant programs around the world.
- C Clovis Oncology, Inc.**
Boulder
www.clovisoncology.com
Focused on acquiring, developing and commercializing innovative anti-cancer agents in the U.S., Europe and additional international markets.
- Colorado Biolabs, Inc.**
Frederick
www.proferin.com
Manufactures an oral iron supplement made from heme iron polypeptide (HIP). Our proprietary process results in an oral iron product that provides an optimal amount of HIP in a single tablet.
- C Colorado Histo-Prep (CH-P)**
Fort Collins
www.histoprep.com
Produces high quality slides, clinical chemistry and hematology data and fully integrated and detailed seamless pathology reports.
- Colorado Research Partners**
Aurora
Developing novel drugs that block the effects of sugar, including sugar craving, and sugar-induced obesity, hypertension, fatty liver and diabetes.
- C Colorado Serum Company**
Denver
www.thepeakofquality.com
Supplies veterinary biologic vaccines, instruments, laboratory reagents and serums for the veterinary industry.
- C Corden Pharma**
Boulder
www.cordenpharmacolorado.com
Corden Pharma Colorado is the small to largescale resource for peptides manufacturing.
- C Crestone, Inc.**
Boulder
www.crestonepharma.com
Drug discovery and development company focused on developing novel treatments for serious bacterial infections.
- Cytoskeleton, Inc.**
Denver
www.cytoskeleton.com
Offers kits for drug screening, signal transduction and cytoskeletal research specializing in the production of purified proteins and easy-to-use kits to study biochemical and cellular processes.
- C Dicerna Pharmaceuticals**
Massachusetts
www.dicerna.com
Dicerna Pharmaceuticals, Inc., is a biopharmaceutical company focused on the discovery and development of RNAi-based therapeutics for diseases involving the liver, including rare diseases, viral infectious diseases, chronic liver diseases, and cardiovascular diseases.
- C DMC**
Boulder
www.dmcbio.com
DMC engineers microbes for the production of a broad diversity of high-value products with development costs and timelines that are more than 100x improved over the state of the art.
- C Edgewise Therapeutics**
Boulder
Edgewise Therapeutics is a biotechnology company focused on developing novel therapies for diseases involving skeletal muscle.

- C Editas Medicine**
Boulder, Massachusetts
www.editasmedicine.com
Editas Medicine is building the leading genome editing company dedicated to treating patients with genetically defined diseases.
- ELISA Tech**
Aurora
www.elisatech.com
Provides immunoassays for the measurement of cytokines, growth factors, and lipid inflammatory mediators.
- Entero Track**
Centennial
www.enterotrack.com
Next generation monitoring of gastrointestinal allergic diseases.
- C Evolve Biologics**
Ontario, Canada
www.evolvebiologics.com
Evolve is a new kind of biologics company founded for a clear purpose: bringing critical plasma proteins to the people who need them.
- C Flagship Biosciences, Inc.**
Westminster
www.flagshipbio.com
Flagship Biosciences Inc. delivers comprehensive tissue profiling for predictive diagnostics in drug therapy using an Artificial Intelligence (AI) enabled computational tissue analysis (cTA®) pathology analytics platform. Our intuitive data reporting gives researchers, clinicians, and drug developers the actionable information needed to drive better clinical results for patients. By delivering novel, useful tissue data in a timely manner, Flagship has become an indispensable partner to bio/pharma companies in their development of novel therapeutics.
- C FluoroFinder, LLC**
Broomfield
www.fluorofinder.com
Software as a Service (SaaS) experiment design tool for flow cytometry, that dramatically improves a medical researcher's productivity and quality, while reducing costs.
- FluTrends International / STS Health**
Denver, Aurora
www.stshealth.com
Develops and commercializes products for the prevention of influenza.
- C Gates Biomanufacturing Facility**
Aurora
www.gatesbiomanufacturing.com
Helps clients accelerate the translation of their discoveries into human clinical trials as efficiently and cost effectively as possible.
- C GENASSIST, Inc.**
Greenwood Village
www.genassistabcs.com
A preconceptional, prenatal and pediatric service business that provides consulting services to patients referred by healthcare providers to help the patient interpret laboratory test results and develop a management plan.
- C Genentech**
California
www.gene.com
Using human genetic information to discover, develop, manufacture and commercialize medicines to treat patients with serious or life-threatening medical conditions.
- Genesis Laboratories, Inc.**
Wellington
www.genesislabs.com
Provides services to clients in the agrochemical and pharmaceutical industries, rodenticide research and development, as well as invasive species, zoonotic disease, and conservation research.
- GeneThera, Inc.**
Westminster
www.genetheranet
Develops and markets the latest molecular technologies to eradicate "cross over" diseases such as Johne's Disease, Mad Cow Disease, Chronic Wasting Disease, and E.coli. Develops assay tests and vaccines to eradicate the threat to humans of diseases transmitted up the food chain by cattle, elk and deer.
- GenoFAB**
Boulder
www.genofab.com
Today, biotechnology products are engineered rather than discovered. R&D programs go through iterations of a data-driven product development cycle. We develop an ecosystem of software applications that help life-science organizations design, fabricate, and characterize synthetic DNA molecules.
- C GlaxoSmithKline**
United Kingdom
www.gsk.com
Produces medicines that treat six major disease areas – asthma, virus control, infections, mental health, diabetes and digestive conditions as well as vaccines and new treatments for cancer.
- C GlobelImmune, Inc.**
Louisville
www.globelimmune.com
GlobelImmune is developing Tarmogen product candidates to treat cancer and infectious diseases.
- Greffex, Inc.**
Aurora
www.greffex.com
Global leader in the delivery of accelerated pandemic and bio-terror vaccines using the world's first universal platform, the GREVAX™ Vaccine Platform.
- HemoGenix**
Colorado Springs
www.hemogenix.com
Assay development laboratory specializing in developing predictive in vitro assay platforms for primary human and animal target cells and stem cell hemotoxicity testing.
- C HepQuant, LLC**
Aurora
www.hepquant.com
HepQuant-E is non-invasive, uses stable (not radioactive) isotopes, and relies on natural, well-defined hepatic functions to measure the portal circulation.
- Hiberna Corporation**
Boulder
Pursuing the potential clinical application of hibernation in order to slow metabolism, thereby extending survival limits in traumas that reduce oxygen to certain cells, e.g. in the heart and brain.
- C Horizon Therapeutics**
Illinois
www.horizontherapeutics.com
Horizon Therapeutics plc is a biopharmaceutical company focused on improving patients' lives by identifying, developing, acquiring and commercializing differentiated and accessible medicines that address unmet medical needs. We market 11 medicines through our rare disease, rheumatology and primary care business units.
- Hospira - a Pfizer company**
Boulder
www.hospira.com
Supplies injectable generic and specialty pharmaceuticals. The Colorado site specializes in the supply of active pharmaceutical ingredients for both internal and external markets.
- C i2 Pharmaceuticals, Inc.**
Boulder
www.i2pharma.com
Creates tools for pharmaceutical drug discovery and development, in addition to proprietary medicinal chemistry services for the expansion of intellectual property protection of early- late-stage pharmaceutical assets.
- C IASO Biomedical, Inc.**
Centennial
www.iasobiomedusa.com
Developing a drug as an alternative to currently-available testosterone replacement therapy by stimulating the body's own production of testosterone.
- ICVrx, LLC**
Denver
Creating a new treatment category for epilepsy by reformulating drugs for brain delivery administered through implantable pumps. Site-specific computerized drug delivery is promising for improving epilepsy therapy in a significant proportion of refractory patients.
- C IM Therapeutics**
Broomfield
www.imtherapeutics.com
ImmunoMolecular Therapeutics is a private clinical stage biotech company developing a therapeutic approach for the treatment of Type I Diabetes.
- C Immunoah Therapeutics**
Aurora
www.immunoah.com
Focuses on researching and developing proprietary antibodies in the field of cancer immunotherapy.

imuTek Laboratories, Inc.

Fort Collins

www.imutek.com

Develops and markets bovine colostrums for the nutrition and health products industry. Indication for colostrum for the passive transfer of antibodies (immunoglobulins) in dry powder form.

InDevR, Inc.

Boulder

www.indevr.com

Providing progressive analytical technologies that enhance and accelerate vaccine characterization and production. The company is also committed to developing next-generation diagnostic products that will enable unprecedented tracking of seasonal and emerging influenza viruses around the globe.

ingenovax

Broomfield

www.ingenovax.com

Developing two novel immunotherapies for medullary thyroid cancer and one prescription eye-drop for ocular surface neoplasms.

C Inscripta

Boulder

www.inscripta.com

Inscripta is a gene editing technology company dedicated to creating the tools needed to revolutionize how we feed, fuel, and heal humanity. This includes developing a family of CRISPR enzymes (called MADzymes), bespoke nucleases for researchers and commercial partners, and a full suite of gene editing tools (software, instruments, and reagents) that will significantly increase the speed and efficiency of precision gene editing.

Integrated Molecular Diagnostics Pathology, Inc.

Aurora

www.imdpath.com

Solves problems presented by non-targeted cancer care by providing oncologists and pathologists with advanced genomic testing as a means of targeting cancer care based on the detection and identification of abnormalities that may be found in cancerous tumors.

Invenux, LLC

Windsor

Research and development for orphan diseases.

C InVitria

Fort Collins

www.invitria.com

Develops, manufactures and markets a portfolio of high performance and well defined cell culture products and reagents used in bioprocessing, biopharmaceutical formulation, stem cell & regenerative medicine, life science research and diagnostics.

C KromaTid, Inc.

Longmont

www.kromatid.com

Develops a method and kit using chromatid paints to improve detection of chromosomal inversions. The improvement is important to medical applications such as cancer and birth defects.

Legacy BioDesign, LLC

Johnstown

www.legacybiodesign.com

Conducts peptide and protein formulation and assay development work for biopharma companies. The company also specializes in drug delivery and process development of biotechnology-based products.

C Levana Biologics

Denver

www.levanabiologics.com

Levana Biologics has partnered with a world-renowned cell therapy and regenerative medicine academic institution and university to offer the healthcare community quality products that are manufactured and delivered with integrity. Levana Biologics provides safe, high-quality bioengineered birth tissues and biomaterials to the healthcare community nationally. These “smart” metabolically active biomaterials supercharge the patient’s own stem cells to enhance, promote and stimulate the body’s natural healing process. Our multi-disciplinary approach is comprehensive and collaborative, providing a unique structure that intricately allows for the alignment of laboratory-to-clinic, producing an evolution in healthcare worldwide.

Living Ink Technologies

Aurora

www.livingink.co

Bioscience research and product company developing the first environmentally safe and sustainable printing inks grown from algae.

C Lohocla Research Corporation

Aurora

www.lohocla.com

Lohocla Research Corporation is a small, Colorado-based biotechnology company that has discovered an innovative medicine for the treatment of chronic pain (DCUK). DCUK is a patent-protected compound that has demonstrated positive results in animals for pain, anxiety and alcohol dependence. Lohocla has completed a large number of preclinical studies and is currently completing the toxicology studies, FDA required, prior to approval for testing in humans.

C Machavert Pharmaceuticals

Aurora

www.machavert.com

Develops a new class of immunotherapies to help the human body to fight various diseases, such as cancer or autoimmune disorders.

C MBC Pharma, Inc.

Aurora

www.mbcpharma.com

Biopharmaceutical company focused on discovering and developing drugs for bone diseases such as cancer and osteoporosis.

C MenoGeniX

Aurora

www.menogenix.com

Clinical stage biotech company developing MNGX-100, a therapeutic biologic, as a novel, non-hormonal, non-SSRI/SNRI, alternative to treat hot flashes and related vasomotor symptoms in women with natural or surgically-induced menopause.

C Merck & Co., Inc.

New Jersey

www.merck.com

Produces products that cover a broad range of areas, including heart and respiratory health, infectious diseases, sun care and women’s health. Focusing their research on conditions that affect millions of people around the world – diseases like Alzheimer’s, diabetes and cancer – while building strengths in new areas like biologics.

MI Innovations

Aurora

Provides affordable chemical and biochemical research & development services, custom equipment and equipment modification, prototyping, short run/one off manufacturing and technical/scale-up/production consultation for startup companies to large corporations.

C miRagen Therapeutics

Boulder

www.miragentherapeutics.com

Improves patients’ lives by developing innovative microRNA (miRNA) based therapeutics for the treatment of cardiovascular and muscle disease. miRNAs are a recently discovered class of small RNAs encoded in the genome, and are short, single-stranded RNA molecules.

Molecular BioSciences, Inc.

Boulder

www.molbio.com

Manufactures products such as water soluble biotinylation reagents, vitamin derivatives, crosslinking reagents, lipophilic probes, fluorophores, radioiodination reagents, and dendritic cores for preparing oligomers.

MonImmune Therapeutics

Fort Collins

www.monimmunetherapeutics.com

Developing a pipeline of repurposed compounds focused on monocyte regulation as vaccine adjuvants.

C Mosaic Biosciences

Denver, Aurora

www.mosaicbio.com

Focused on the development of innovative materials for tissue regeneration and repair.

Mother’s Milk is Best

Fort Collins

www.mothersmilkisbest.com

Developed Human Milk Concentration (HMC) - advanced filtration technology that produces pure, concentrated mother’s milk containing the native essential human proteins, beneficial nutrients and immune factors that promote optimal neonate growth and play a profound role in the survival & health of a newborn.

Nanoly Bioscience, Inc.

Denver

www.nanoly.info

Developing a safe and proprietary polymer encapsulation to stabilize and protect therapeutic biological molecules, such as vaccines and enzymes, from below freezing to beyond tropical room temperatures.

NanoSphere Health Sciences

New Jersey
www.nanospherehealth.com
Created an advanced delivery system platform to change the way people take and benefit from nutraceutical supplements and medications.

C Neuraptive

Lafayette
www.neuraptive.com
Development-stage surgical product company bringing to market a surgical therapeutic kit to repair injured peripheral nerves.

C Novo Nordisk

Texas
www.novonordisk.com
A global healthcare company with more than 90 years of innovation and leadership in diabetes care.

C Novus Biologicals, LLC, a Bio-Techne brand

Littleton
www.novusbio.com
Develops, tests and markets antibodies for research of human diseases such as cancer, cardiovascular and neurological disorders.

C Ocugen

Aurora
www.ocugen.com
Exclusively licensed two novel biological molecules which have the ability to improve patient outcomes in a number of retinal disorders including Retinitis Pigmentosa (RP), Geographic Atrophy (GA), and other neurodegenerative diseases as well as wet age-related macular degeneration (Wet AMD), Diabetic Retinopathy (DR), and other neovascular diseases.

Omix Technologies

Aurora
www.omixtech.com
Omix Technologies has innovated mass spectrometry-based workflows to provide quantitative proteomics and metabolomics analyses with supreme throughput, accuracy, and precision. These techniques provide unprecedented insight into complex biological systems, providing unique perspectives for the development and improvement of biological products.

OnKure

Longmont
www.onkuretherapeutics.com
Engaged in the discovery and development of epigenetic therapies for the treatment of cancer that include selective inhibitors of histone deacetylases (HDACs).

Op-T-Mune

Denver
Development of a small peptide to control autoimmune inflammation, specifically in type 1 diabetes and multiple sclerosis.

Pantheryx

Boulder
www.pantheryx.com
PanTheryx is a biotechnology company committed to realizing the potential of novel interventions to address a wide range of serious GI microbiome related health conditions.

C Pathways Bioscience, Inc.

Aurora
www.pathwaysbio.com
Focused on discovering and developing new agents for modifying gene expression and regulating stress response pathways that contribute to cell defense mechanisms.

Peak Analytical, Inc.

Golden
www.peaklab.net
Specializes in materials and chemical analysis. Performs a variety of molecular and atomic level spectroscopic techniques to identify failures and defects.

C Peak Serum

Fort Collins
www.peakfbs.com
Our core focus is Fetal Bovine Serum (FBS) for cGMP-QSR / clinical trial research and diagnostic applications. We provide FBS for all levels of research compliance and laboratory settings. Our strong reputation is built on our solutions based approach and individual needs of our customers.

PeptiVir

Aurora
www.site.peptivir.com
Focused on the development and commercialization of a conformationally-constrained, synthetic peptide-based vaccine platform for the prevention of viral diseases.

C Pfizer, Inc.

New York
www.pfizer.com
Discovers, develops, manufactures, and markets prescription medicines for humans and animals.

PhosphoSolutions, LLC

Aurora
www.phosphosolutions.com
Designs and produces phosphoproteins solutions using phosphor-specific antibodies. Phosphoproteins are thought to be critical elements in neurological diseases such as Alzheimer's and in cancer.

Photon Pharma

Fort Collins
www.photonpharm.com
Develops cancer vaccines, applicable to all cancers, using live inactivated tumor cells with full preservation of neo-antigens and cell structure.

C Plato Biopharma

www.platobiopharma.com
PBI's integrative pre-clinical research platform generates decision-enabling data via physiological evaluation of disease models, assessment of acute and chronic in vivo pharmacologic responses, and evaluation of histologic and contemporary biomarkers across core organ systems.

PrevaCept Infection Control, Inc.

Broomfield
www.prevacept.com
PrevaCept Infection Control, Inc. manufactures the best-in-class product for catheter infection control, the PrevaCept Lock Solution. PrevaCept has been shown to dramatically reduce the risk of sepsis caused by catheters colonized by microbial pathogens.

C Pyxant Labs, Inc.

Colorado Springs
www.pyxant.com
Provides GLP regulatory bioanalytical support for non-clinical through clinical development programs. Specialties include rare tissues, RNA and oligonucleotide therapeutics, nucleoside antivirals, and agricultural and industrial biotech applications.

Quicksilver Scientific

Lafayette
www.quicksilverscientific.com
Clinical and environmental mercury lab and dietary supplement manufacturing.

Regenexx

Broomfield
www.regenexx.com
Advances stem cell therapies through development of Regenexx™, an injection procedure to treat a wide variety of painful conditions.

Renaptys Vaccines, LLC

Aurora
www.renaptys.com
Developing innovative Stable Peptide Immunogen (SPI) platform that targets α -helical epitopes, initially, fusion receptors on viruses.

C Respirogen

Boulder
www.respirogen.com
Respirogen Oxygen Microbubble (OMB) technology will provide improved compositions for blood oxygenation as well as improved methods for producing and delivering these oxygen delivery compositions to patients or explanted cells, tissues, or organs. Target indications: wound healing, as an alternative treatment to Hyperbaric Oxygen Therapy, allowing ambulatory/home care in diabetic ulcers; burn therapy, for improved healing by delivery of oxygenated therapeutics; critical care applications including peritoneal oxygen delivery in NICU and VA-ECMO.

Reven Pharmaceuticals

Golden
www.reven.com
A global healthcare company with more than 10 years of innovation and leadership in vascular care.

Rezolute

Louisville, California

www.rezolutebio.com

Rezolute is a clinical stage biopharmaceutical company specializing in the development of innovative drug therapies to improve the lives of patients with metabolic and orphan diseases. Rezolute is advancing a diversified portfolio including: RZ358 (Phase 2), an antibody for the ultra-orphan indication of Congenital HyperInsulinism (CHI), with an abbreviated path-to-market strategy; AB101 (Phase 1), a once-weekly injectable basal insulin with the potential to transform the treatment landscape in diabetes management by reducing the therapeutic burden for patients and improving compliance; and a Plasma Kallikrein Inhibitor (PKI) portfolio with two lead compounds, RZ402 targeting Diabetic Macular Edema (DME) and RZ602 targeting Hereditary Angioedema (HAE), an orphan indication.

Rocky Mountain Biosystems, Inc.

Wheat Ridge

Research and development of transdermal pharmaceuticals and delivery systems, cosmetic devices, and tissue adhesives.

Rocky Mountain Diagnostics, Inc.

Colorado Springs

www.rmdiagnosics.com

Provides immunodiagnostic assays and reagents for biogenic amines, research reagents, a CLIA certified reference laboratory and contract manufacturing services.

Rocky Mountain Instrumental Laboratories

Fort Collins

www.rockylab.com

Provides contract chromatographic and mass spectrometric analysis of pharmaceuticals (both traditional drugs and biotechnology products, such as proteins and peptides and oligonucleotides), veterinary and human endocrinology, and forensic toxicology.

Rocky Mountain Reagents, Inc.

Golden

www.rmreagents.com

Manufactures stains, culture media and chemistry solutions for the medical industry, as well as titration reagents, indicators, acids, bases, and a variety of chemicals for industrial uses.

Saigene Biotech, Inc.

Denver

www.saigene.com

Developing testing processes to identify harmful algae blooms.

Sandoz

Broomfield

www.us.sandoz.com

Focuses on pharmaceuticals, consumer health, generics, eye care and animal health. Therapeutic categories include anti-infectives, anti-arthritis, cardiovasculars, gastrointestinal agents & psychotherapeutics.

C Silvergate Pharmaceuticals, Inc.

Greenwood Village

www.silvergatepharma.com

Developer and manufacturer of pharmaceutical products focused on the pediatric market.

Sinfonia Biotherapeutics

Boulder

www.sinfoniabiotherapeutics.com

Developing novel, bioreactor-delivered treatments for familial and genetically - defined orphan neurodegenerative diseases.

C STAQ Pharma

Denver

www.staqpharma.com

503B Outsourcing facility. Focused on sterile, pre-filled syringes.

C Steadman Philippon Research Institute

Vail

www.sprivail.org

Orthopedic sports medicine, SPRI is unlocking the secrets of healing, finding cures and enhancing lives through regenerative medicine, scientific research, innovation and education.

Sudhin Biopharma Company

Superior

www.sudhinbio.com

Sudhin Biopharma Co. develops novel continuous and more efficient biopharmaceutical manufacturing technologies. Its first product is single use disposable plastic BioSettler, which can be used to (i) remove dead cells and cell debris selectively while recycling live and productive cells back to the perfusion bioreactor, (ii) clarify cell culture broth at the end of fed-batch cultures, (iii) capture secreted antibodies directly on protein A beads suspended inside the settler to replace column chromatography, (iv) purify and separate ex vivo expanded mesenchymal stem cells from microcarrier beads, etc.

C SuviCa, Inc.

Boulder

www.suvica.com

Discovery and development of small molecules for the treatment of cancer.

C Taiga Biotechnologies, Inc.

Aurora

www.taigabiotech.com

Taiga Biotechnologies, Inc. is a clinical stage company focused on improving blood stem cell transplantation and harnessing the power of the immune system to fight infectious disease and cancer.

Teleost Biopharmaceuticals

Boulder

www.teleostbio.com

Teleost Biopharmaceuticals will help people protect themselves from sun damage by stimulating melanin production in the body by a method not triggered by the sun's UV rays.

The BioCollective, LLC

Centennial

www.thebiocollective.com

Biobanking company for microbiome samples. Initial research focus is on epigenetic impact of microbiome metabolites through technology developed by its partner, Topogen, using a topoisomerase reporter system.

C Thermo Fisher Scientific

Lafayette

www.thermofisher.com

Scientific leadership and innovation in RNAi, Gene Expression, qPCR/PCR Detection, and Molecular Biology technologies come together with the Thermo Scientific Dharmacon, Open Biosystems, ABgene, Finnzymes, and Fermentas product lines to provide world-leading solutions for gene analysis.

C Tolmar

Fort Collins

www.tolmar.com

A fully integrated pharmaceutical company focused on the development, approval, and commercialization of specialty pharmaceutical products.

TopGear Automation

Denver

www.topgearautomation.com

Development and validation of biomarkers for environmental exposure, oncology, and related diseases.

C TopoGEN, Inc.

Buena Vista

www.topogen.com

TopoGEN, Inc. is a mature biotech company that markets and sells R&D reagents globally in the anti-cancer and antibiotic space. We are also an established CRO specialized in high throughput drug screening in these areas. We have >10 global distributors and actively export products to Asia, the E.U and many other countries. TopoGEN is also well funded with multiple SBIR grants.

UBP Bio

Aurora

www.ubpbio.com

Manufactures and sells bioreagents related to the ubiquitin-proteasome pathway. The ubiquitin-proteasome pathway is responsible for degradation of the majority of cellular proteins.

C Ultragenyx Pharmaceuticals

California

www.ultragenyx.com

Ultragenyx is a biopharmaceutical company committed to bringing to patients novel products for the treatment of rare and ultra-rare diseases, with a focus on serious, debilitating genetic diseases. Founded in 2010, the company has rapidly built a diverse portfolio of approved therapies and product candidates aimed at addressing diseases with high unmet medical need and clear biology, for which there are no approved therapies. The company is led by a management team experienced in the development and commercialization of rare disease therapeutics. Ultragenyx's strategy is predicated upon time and cost-efficient drug development, with the goal of delivering safe and effective therapies to patients with the utmost urgency.

Upsher-Smith Laboratories, Inc.

Denver

www.upsher-smith.com

Develops, manufactures and markets a vast range of prescription and over-the-counter products for cardiology, dermatology, women's health and other areas.

Ursa Medical Technologies

Aurora
www.ursamedical.com
Research company developing a breast cancer treatment compound researching the use of enzyme inhibitors in the cholesterol biosynthetic pathway to explore the safety and efficacy of the compound on a variety of hormonal cancers.

C Ventria Bioscience

Fort Collins
www.ventria.com
Develops a protein expression technology platform called ExpressTec with a product pipeline in human nutrition and therapeutics.

Verkko Biomedical, LLC

Aurora
www.verkkobiomedical.com
Commercializing combustion synthesis technology and manufacturing medical grade customized alpha-, beta-phase tricalcium phosphates as precursor components.

C Vertex Pharmaceuticals, Inc.

Massachusetts
www.vrtx.com
Aims to discover, develop and commercialize innovative medicines so people with serious diseases can lead better lives.

VisuGen Global, LLC

Aurora
www.visugenglobal.com
Advancing a new approach to concentrate and detect gene targets in a method that is simple to perform anywhere needed.

VitriVax, Inc.

Boulder
A platform technology enabling the preparation of thermostable, single-shot vaccines.

C VitroBiopharma

Golden
www.vitrobiopharma.com
Develops and commercializes adult stem cell technology for applications in stem cell research, drug discovery & development and therapeutic products for treatment of disease, injury and tissue regeneration.

Vitrolife, Inc.

Englewood
www.vitrolife.com
Develops, manufactures and sells products and systems for the preparation, cultivation and storage of human cells, tissue and organs. Product areas include fertility, transplantation and stem cell cultivation.

C Vivaldi Biosciences

Fort Collins
www.vivaldibiosciences.com
Developing advanced vaccines for prevention of common seasonal influenza ("flu") and emergent pandemic flu.

VRL Laboratories

Centennial
www.vrl.net
Laboratory that offers full service regulated donor eligibility testing for the human cell and tissue community.

C Watchmaker Genomics

Boulder
www.watchmakergenomics.com
Watchmaker Genomics combines deep domain expertise in protein engineering with enzyme manufacturing to address the demanding quality, performance and scale requirements of high-growth genomics applications.

Xalud Therapeutics

Boulder
www.xaludthera.com
Novel therapies for the treatment of neuro-inflammatory diseases and inflammatory joint disorders.

Yarra Therapeutics

Boulder
Treatment for rare degenerative heart disease.

YewSavin, Inc.

Fort Collins
www.ajorganica.com
Develops chemical and biochemical technologies. Successfully finished multi-step syntheses using Bromination, Grignard reaction, Suzuki coupling, Amidation, and Esterification reactions.

yuScience, LLC

Aurora
Focusing on the development of early disease biomarkers in patients with multiple sclerosis (MS).

Z Biotech, LLC

Aurora
www.zbiotech.com
Cost-effective biochemical analysis solutions with a focus to develop innovative microarray and carbohydrate products and related services.

Zalgen Labs, LLC

Aurora
www.zalgenlabs.com
Specializing in the design and production of superior biological molecules critical for the development and commercialization of reliable, rapid, and affordable diagnostic platforms, immunotherapeutics and novel vaccines targeting neglected and underrepresented human infectious diseases.

Zenith BioPharma

Aurora
A cancer therapeutics research and development company focused on targeting cancer stem cells, cancer metastasis and recurrence.

AG BIO/ANIMAL HEALTH**Advanced Regenerative Therapies (ART)**

Fort Collins
www.art4dvm.com
Provides a stem cell isolation and expansion service for veterinary medicine.

Agripro COKER

Berthoud
www.agriprowheat.com
Develops and delivers superior wheat seed genetics in North America.

Animal Health Options

Golden
www.animalhealthoptions.com
Offers high quality antioxidants and nutritional supplements that meet or exceed industry standards and provide a noticeable benefit to dogs, cats and horses.

Animark, Inc.

Aurora
www.animark.us
Manufactures and sells ultrasound pregnancy detectors and ovulation predictors for livestock breeding.

AnImmune, LLC

Golden
Infectious disease-centric company focused on enhancing efficacy of animal vaccines using knowledge accumulated through decades of human vaccine technology.

Aquatic BioSystems

Fort Collins
www.aquaticbiosystems.com
Full-service organism culturing facility specializing in the production and distribution of freshwater and marine organisms for aquatic toxicology, biomonitoring and other research activities.

Ardent Mills

Denver
www.ardentmills.com
Offers the industry's broadest range of flours, mixes, blends and specialty products. More than 40 community mills and mix facilities, along with a specialty bakery and a Mobile Innovation Center.

C Bayer

www.bayer.com
Global provider of technology-based solutions and agricultural products that improve farm productivity and food quality.

BioServe Space Technologies

Boulder
www.colorado.edu/engineering/BioServe/
Researches space life science with a wide range of biotechnology applications involving animals, plants and microorganisms.

C Bond Pet Foods™

Aurora
www.bondpets.com
In a process similar to craft brewing, we start with live cells from an animal (no slaughter required) and feed them a nutrient-rich broth of vitamins and minerals. The same ones an animal would eat on farm and field, only without the pharmaceuticals.

CarboAnalytics

Fort Collins
www.carboanalytics.com
Develops systems that give accurate sugar analysis for the brewing and distilling, food processing and pharmaceuticals industries.

Cargill Research

Fort Collins
www.cargill.com
Develops, processes and markets science-based, health promoting ingredients for food and dietary supplement industries worldwide.

Colorado Genetics, Inc.

Loveland
www.coloradogenetics.com
Provides livestock embryo-transfer research, artificial insemination, embryo collection, freezing and transfer, and international import and export services.

Colorado Quality Research, Inc. / Feathertech, Inc.

Wellington
www.coloradoqualityresearch.com
Leading innovator in poultry research.

C Colorado Serum Company

Denver
www.thepeakofquality.com
Supplies veterinary biologic vaccines, instruments, laboratory reagents and serums for the veterinary industry.

C Concentric

Centennial, Canada
www.concentricag.com
Inocucor uses its proprietary microbial consortia technology to combine multiple beneficial bacteria and yeasts into powerful soil and plant boosters that are economical for farmers and greenhouse growers, and safe for people and the environment.

Dairy Authority

Greeley
www.dairymd.com
A food and animal practice utilizing the specialties of their veterinarians, microbiologists and veterinarian technicians.

Dairy Tech, Inc.

Greeley
www.dairytechinc.com
Researcher and manufacturer focusing on early calf development.

DVM Systems

Greeley
www.dvmsystems.com
Technology leader in herd health management.

EI Medical Imaging

Loveland
www.eimedical.com
Provider of portable ultrasounds for veterinarian and livestock procedures to create positive business impacts.

Eurofins BDI

Longmont
www.eurofinsus.com
Provides technology-based, scientifically sound services that cover the entire life cycle from genetics to seed and plant.

Evolutionary Genomics

Castle Rock, Longmont
www.evolgen.com
Identifies genes with a high likelihood of commercial value for downstream validation through their proprietary Adapted Traits platform.

Fluid Dynamic Siphons, Inc.

Colorado Springs
www.siphons.com
Global leader in the manufacture and distribution of dosing siphons.

Fresh Cow Manager

Boulder
www.freshcowmanager.com
Fresh Cow Manager gets your cows up and eating when they are most nutritionally deprived.

Front Range Biosciences

Lafayette
www.fronrangebio.com
Provides industrial-scale tissue culture propagation and advanced breeding for plants that will be less susceptible to diseases and mold contamination, reducing the need to use pesticides.

Gene Check, Inc.

Greeley
www.genecheck.com
Gene Check is a diagnostic laboratory specializing in veterinary genetics. In addition, Gene Check maintains a dynamic biotech research program, including rare DNA sequence and SNP detection.

GeneBiologics

Boulder
www.genebiologics.net
Developing organisms to efficiently convert nitrogen in air or liquid waste streams into a non-toxic, soluble, concentrated, slow-release sustainable fertilizer; and the directed evolution of enzymes for biosensors and renewable energy applications.

Genesis Laboratories, Inc.

Wellington
www.genesislabs.com
Global leader in the fields of vector biology and wildlife research, focusing in disease prevention in humans.

GeneThera, Inc.

Westminster
www.genetheranet.com
Develops and markets molecular technologies to eradicate “cross over” diseases such as Johne’s Disease, Mad Cow Disease, Chronic Wasting Disease and E.coli. Develops assay tests and vaccines to eradicate the threat to humans of diseases transmitted up the food chain by cattle, elk and deer.

Growcentia

Fort Collins
www.growcentia.com
Makes organic soil supplements that naturally increase nutrient availability to support healthy and vigorous plants.

Hach Company

Loveland
www.hach.com
Focused on providing cleaner water to the world, with improved diagnostics.

Heska Corp.

Fort Collins
www.heska.com
Develops advanced diagnostics and specialty products for veterinary practices that focus on companion animals.

Industrial Laboratories Co.

Wheat Ridge
www.industriallabs.net
An independent third-party analytical laboratory that specializes in food and drug analysis.

International Bovine Training Solutions

Loveland
www.bovinetraining.com
A training experience focused on improving the reproductive performance on dairy and beef operations.

C Jonah Ventures, LLC

Boulder
www.jonahventures.com
Sequencing DNA using next-generation sequencing technology. Areas of service include reconstructing the diet of wildlife and livestock, analyzing the abundance of organisms in aquatic ecosystems, and determining the plants that pollinators rely on.

Jorgensen Laboratories, Inc.

Loveland
www.jorvet.com
Designs and manufactures instruments which are used in the animal health field including specialty instruments, surgical suture, and veterinary equipment.

Keeton Industries, Inc.

Wellington
www.keetonaqua.com
Researches and develops biological water treatment, aeration, ozone aeration, solids removal, biofiltration and other new technologies.

Lacuna Diagnostics

Fort Collins
www.lacunadisagnostics.com
Lacuna Diagnostics allows veterinarians to upload diagnostic images for near instant review by a veterinary pathologist. Lacuna’s proprietary digital platform creates an integrated network of hospitals and pathologists, and provides remote, near instant interpretation of diagnostic images by a veterinary pathologist. Lacuna Diagnostics delivers timely diagnosis and raises the standard of care for veterinary patients.

Limagrain

Fort Collins
www.limagraincerealseeds.com
Through cutting-edge seed-breeding methods, the company brings new, improved seed varieties to market in a fraction of the time possible just a decade ago.

Loveland Products, Inc.

Greeley
www.lovelandproducts.com
Offers a complete line of high-performance input products, with a portfolio of seed treatment, plant nutrition, fertilizer, adjuvant and crop-protection products.

Lumiere Diagnostics

Fort Collins
www.lumierediagnosics.com
Innovative solutions for food and water safety.

Membrane Protective Technologies, Inc.

Fort Collins
www.membrane-protect.com
Blend of organic plant extracts which improves artificial insemination pregnancy rates in cows.

C Microbial Research, Inc.

Fort Collins
www.microbialresearch.com
A veterinary services microbiology laboratory that conducts GLP and GCP compliant research trials.

MycoTechnology

Aurora
www.mycotechcorp.com
A food technology company that has developed a natural food processing platform that is solving some of the biggest challenges in the food and beverage industry.

Nutrinsic, Inc.

Aurora
www.nutrinsic.com
Produces a cost-effective, sustainably produced protein meal which serves as a fish meal replacement (FMR) or additive ingredient for animal feeds, primarily those destined for the aquaculture industry.

Optibrand Ltd., LLC

Fort Collins
www.optibrand.com
Specializes in livestock identification devices and veterinary diagnostics.

C OptiEnz

Fort Collins
www.optienzsensors.com
Produces innovative biosensors for continuously measuring organic chemical concentrations in water and aqueous solutions.

Pisces Molecular

Boulder
www.pisces-molecular.com
Focused on applying molecular genetics technology to problems of fisheries and aquatic conservation biology.

Poudre Canyon Therapeutics

Fort Collins
www.pcthera.com
Developing a pharmaceutical therapeutic that increases the ability of canine and feline immune systems to prevent infection via airborne respiratory pathogens.

Pure Cultures

Denver
www.purecultures.com
Pure Cultures is an AgTech product development and manufacturing company specializing in prebiotics and probiotics used to support the health of animals and reduce antibiotics in our food chain.

SiVEC Biotechnologies

Fort Collins
www.sivecbiotechnologies.com
Developing antiviral products for the rapid prevention of economically important diseases. Currently focused on developing SiVEC-AIV, a patent-pending antiviral for avian flu in poultry.

Summit Plant Laboratories, Inc.

Fort Collins
www.plantlabs.com
Applies laboratory plant cloning and greenhouse technologies to produce planting stocks for breeders, greenhouses, and field crop producers.

Syngenta

Longmont
www.syngenta-us.com
Produces agrochemicals and seeds. As a biotechnology company, it conducts genomic research.

C Terra Chem Labs

Denver

Verdant BioSciences Corp.

Denver
www.verdantbio.com
Develops plant biochemical regulators that provide superior plant performance and unlock the productive power of plants in markets from floriculture to industrial agriculture.

C VetDC

Fort Collins
www.vet-dc.com
Focused on the development of novel devices, diagnostics and therapeutics for emerging veterinary markets, including an approved therapy for canine lymphoma.

C Veterinary Diagnostic Technology

Wheat Ridge
www.serumtest.com
Veterinary diagnostic products.

VetMeasure

Fort Collins
www.vetmeasure.com
Produces harnesses that enable accurate detection of an animal's health statistics to optimize care and treatment options.

Warren Analytical Laboratory

Greeley
www.warrenlab.com
Specializes in food microbiology, molecular biology, food chemistry, residue chemistry and nutritional labeling.

Wildlife Pharmaceuticals, Inc.

Windsor
www.wildpharm.com
Providing pharmaceuticals for the safe and humane care of non-domestic and exotic wildlife species.

C Zoetis

Longmont
www.zoetis.com
Discovers, develops, manufactures and commercializes a diverse portfolio of animal health medicines and vaccines designed to meet the real-world needs of veterinarians and the livestock farmers and companion animal owners they support.

MOBILE-DIGITAL HEALTH**AbleLink Technologies**

Colorado Springs
www.ablelinktech.com
Addresses the need for well-researched cognitive support technologies for individuals with intellectual disabilities.

ADAN.net

Denver
www.adan.net
Comprehensive Lifetime Navigation Platform for people with Autism and other developmental disabilities.

AIVANTE Health Solutions

Centennial
www.dzeesolutions.com
AIVANTE Health Solutions provides Data Analytics and Decision Support solutions for optimizing healthcare financial and plan selection decisions.

Allergy Solutions, LLC

Denver
www.symbiaallergy.com
Developed an allergy-management platform allowing providers to perform allergy tests and prescribe immunotherapy.

Alvy Health

Denver
www.alvyhealth.com
Developing a digital platform for patient monitoring, critical system management and realtime treatment decision making to improve acute, emergency and urgent care.

C BehaviorMe

Florida
www.behaviorme.co
BehaviorMe is developing immersive virtual reality simulations for behavioral specialists to use as a tool to better generalize skill sets. Our VR simulations will give practitioners the opportunity to teach basic life skills to individuals with Autism Spectrum Disorder and developmental disabilities in a new, innovative, and safe way.

Burst IQ

Colorado Springs
www.burstiq.com
Building a secure and open platform for health data.

CareSpan

Longmont
www.carespanhealth.com
Connects patients and providers by offering physicians a complete and secure workplace in the cloud that allows healthcare delivery consistent with the standards of an in-person exam, while leveraging the economic scalability and efficiency of the internet.

CirrusMD

Denver
www.cirrusmd.com
Developed a platform to connect patients and providers via text messaging without putting personal health information at risk.

CIVHC

Denver
www.civhc.org

Helps Colorado drive, deliver and buy value in health care by administering the Colorado All Payer Claims Database; unlocking information and insights that guide how healthcare gets delivered, used and paid for; and bringing together organizations and individuals to design and drive collective change.

C Cliexa

Denver
www.cliexa.com

Provides decision support to physicians and other healthcare providers during the treatment process and optimizes treatment methods based on evidence-based knowledge and data.

CORHIO

Denver
www.corhio.org

Its health information exchange (HIE) technology, data analytics tools and consulting help healthcare providers access information to save lives, streamline care coordination, reduce costs and improve clinical outcomes.

DARTNet Institute

Aurora
www.dartnet.info

The DARTNet Institute is a rapidly growing collaboration of practice-based research networks that are building a national collection of data from electronic health records, claims, and patient-reported outcomes.

DreamFace Technologies

Denver
www.dreamfacetech.com

“Ryan” is a social companion robot for dementia patients who delays the onset of advanced dementia through stimulating games, music and crafts.

EMS Relay

Broomfield
www.emsrelay.com

Developed a mobile app allowing EMS responders to send images and video from the field to the ER.

EngageMyHealth, LLC

Centennial
www.engagemyhealth.com

Provides a software based solution for elective healthcare centers. The integrated platform covers mobile centric digital communication to patients and prospects, before, during and after their office visits.

C Etta Epidermis

Illinois
www.etta.io

Etta is an Artificial Intelligence that uses massive datasets of hospital-verified images to provide a data-driven skin insight. The insight that Etta provides is determined by level of risk (Low, Medium, High). Values for accuracy, precision, recall, sensitivity and specificity are used to determine your risk.

gaugewear, Inc.

Boulder
www.gaugewear.com

Developing the first wearable, wireless, non-invasive core body temperature sensor.

Global Healthcare Exchange (GHX)

Louisville
www.ghx.com

Help healthcare providers reduce costs by automating the supply chain and providing business intelligence tools to help them make smarter and faster decisions.

C Health Scholars

Westminster
www.healthscholars.com

Improve patient safety with Health Scholars One™ learning software, simulation management, and virtual reality medical training.

C Health Sqyre

Denver
www.healthsqyre.com

Digital health e-commerce platform that empowers patients with tools that allow them to price compare and use their insurance to buy medical supplies online.

C Hippo Health

Boulder
www.hippohealth.com

Communication platform for clinicians and patients. Easy care collaboration for your entire care team.

Incendant

Pueblo
www.incendant.com

Created a web-based, patient engagement platform that enables providers to automatically engage patients with video/email education and SMS reminders.

IngeniumCare

Denver
www.ingeniumcare.com

Provides support for patient home monitoring and provides wireless biometric feedback to caregivers.

iTriage

Denver
www.itriagehealth.com

A platform for consumers to get medical answers, find care options and securely maintain health information.

Matrix Analytics, Inc.

Denver
www.matrix-analytics.com

The Nodule Project is Matrix Analytics' clinical decision support platform designed to improve patient outcomes by aiding in the early detection, diagnosis, and cost-effective treatment of pulmonary nodules and lung cancer.

MedAware Systems

Broomfield
www.medawareystems.com

Provides healthcare professionals, payers, patients, pharma and medical device companies with actionable information on the efficacy and safety of medical treatments to make the best decisions for each patient.

C Medecipher

Denver
www.medeciphersolutions.com

Medecipher helps hospitals improve the quality of care for patients, improve the quality of the work environment for staff, and reduce operating costs with a suite of proactive planning and EMR-integrated real-time decision support tools for optimizing clinical operations.

MedKeeper

Arvada
www.medkeeper.com

Provides a suite of fast, flexible, and economical applications for hospital pharmacies.

METHOD, LLC

Aurora
www.themethoddifference.com

Bridges the gap between exercise and medicine to optimize performance, monitor and speed recovery and prevent injury.

C MFB Fertility

Boulder
www.proovtest.com

Proov™ rapid response test strips empower women to know more about their menstrual cycles and progesterone levels in five minutes, at home.

Mindful Labs

Aurora
www.getmindful.co

Collects monthly hair samples from users through the mail. A CLIA certified lab translates this into the average monthly cortisol levels viewable on a mobile phone, allowing customers to monitor cortisol levels and take corrective action.

Mobile Assay

Boulder
www.mobileassay.com

Created a lab-on-mobile-device platform with customizable smartphone diagnostic tools for use with any rapid diagnostic test or colorimetric assay. Its automated mReader™ imaging system transforms ordinary qualitative (positive/negative) tests into highly sensitive quantitative tests.

C MuscleSound, LLC

Denver
www.musclesound.com

MuscleSound is a software technology that automates the analysis of musculoskeletal ultrasound images. We are the MuscleHealth company.

My Rounding

Denver
www.myrounding.com

A platform that allows healthcare providers to standardize, automate and track their rounding activity. It allows nurses and staff to be proactive, improving care and patient experience.

Myonic Technologies

Boulder
www.myonic.tech

Creates enabling technology for users with paralysis. Gives users back the ability to control their own muscles with a wearable device.

myStrength

Denver
www.mystrength.com
Created a platform to help healthcare payers and providers extend access to evidence-based resources to help consumers better manage depression, anxiety and substance abuse disorders.

Now Vitals

Aurora
www.nowvitals.com
Phone case and software that records vital signs, telling you when you're "off-baseline" or starting to get sick.

Nymb Science

Boulder
www.nymbscience.com
Combines medical science with mobile technology to allow people to easily measure their balance, and then recommends a program to improve balance.

OpiSafe

Denver
www.opisafe.com
Data collection and analysis for unmatched opioid intelligence and solutions.

OptioSurgical

Denver
www.optiosurgical.com
Provides affordable healthcare through vendor transparency and advanced analytics. The company's orthopedic database provides vendor-by-vendor cost comparisons of equivalent tools, implants and disposables.

Ortho Track

Denver
www.orthotrack.co
Replaces the antiquated manual paper-based process of recording implants with an intraoperative iPad application that leverages a proprietary database of orthopedic products and equivalencies. After tracking what is used in surgery OrthoTrack displays a surgeon by surgeon breakdown of cost, savings opportunities, and patient reported outcomes.

C Physia

Aurora
www.physia.life
Physia provides smart garments that monitors respiratory and cardiovascular failure as well as diabetes and thyroid disorder in elderly patients with frequent occurrences with the assistance of artificial intelligence and machine learning.

Physician Cognition

Telluride
www.physiciancognition.com
Created a differential diagnosis search engine to minimize misdiagnoses and prevent unnecessary testing and procedures.

PreAcute PHM, Inc.

Aurora
www.preacutephm.com
Helps lower healthcare expenditures using its predictive clinical data analytics platform to focus on pre-acute clinical interventions to treat patients in the early stage of their illness, when they can often benefit from alternative, low-cost point treatments.

PrecisionProfile, Inc.

Boulder
www.precision-profile.com
Precision medicine for data analysis and visualization toolset for genomic profile data that integrates research literature, clinical trial formation and molecular diagnostic reports.

Predictive Recognition

Boulder
www.recogdata.com
Helps hospitals recognize and predict patient risk and improve quality of care.

Preventative Technology Solutions

Loveland
www.mypreventtech.com
PreventTech creates medical assessment applications and mHealth prevention services to reduce risk behaviors in adolescents and young adults. Our proprietary measures support predictive analytics at the clinic and population levels.

C Prima-Temp, Inc.

Boulder
www.prima-temp.com
Innovative biometric approaches to early disease detection and reproductive medicine through the application of 21st century thermometry.

Radish Systems

Boulder
www.radishsystems.com
Its mobile enterprise software, ChoiceView, allows businesses to share visuals with patients in real-time.

C RxREU

Denver
www.rxrevu.com
RxREU's Prescription Decision Support platform is a first-of-its-kind tool that provides prescribing guidance for providers within the EHR workflow. It delivers a unified patient view that evaluates safety protocols, formulary and benefit data, and clinical best practices to recommend the most appropriate medication at the point of prescribing while reducing the time it takes for a provider to prescribe. It enables hard-wired communication at the point of care, to inform prescribers, drive consistent prescribing, lower costs, inform adherence, and improve quality metrics for HEDIS and Stars. It also provides real-time analytics tools, allowing administrators to monitor best practices and evaluate provider performance to clinical protocols and outcomes.

SafeImageMD

Denver
www.safeimagemd.com
Created a secure transfer and storage technology allowing providers to share critical medical images with colleagues, patients, physicians and institutions anywhere in the world.

Sana Health

Boulder
www.sana.io
Sana is the world's first pain & sleep management mask, aiding people around the world.

Script Adviser

Greenwood Village
www.scriptadviser.com
Improves the treatment of infectious disease through collaboration with other healthcare practitioners and their patients via cloudbased video conferencing and decision support technology.

Self Aware Apps

Denver
www.selfawareapps.com
Creates assistive intelligence engines that help people live better lives by enabling their mobile device to hear, see and sense the world around them.

Skindroid

Aurora
www.skindroid.io
Developed new skin sensor technology to detect key parameters of basic metabolic panel from a user's sweat. Skindroid is a wearable biosensing hardware device that allows remote, non-invasive BMP monitoring via FHIR API integration with health data platforms.

Skywriter MD

Westminster
www.skywritermd.com
Provides real-time, virtual medical scribe services that navigate the EMR and enter data, execute tasks and write orders as directed.

Sleep Image

Denver
www.sleepimage.com
Develops a system to measure sleep, receive a clinically-validated indicator of sleep health and learn how behavioral changes can impact sleep.

Sleep Shepherd

Colorado Springs
www.sleepshepherd.com
Developed a device to improve sleep in people with sleeping disorders or people who simply want to improve the quality of their sleep, using EEG brainwave monitoring and a binaural beat system to slow the brain rate from an awake state to a sleeping state.

Socon Health

Denver
www.soconhealth.com
A HIPAA compliant telemedicine and patient engagement technology that allows patients and providers to communicate asynchronously via video messaging.

Somno Health, Inc.

Golden
www.geteversleep.com
EverSleep gives hospital-grade measurements to you at home without doctors, clinics, or prescriptions. Continuously monitor blood oxygen, pulse, snoring, motion, and respiratory function while understanding what's disrupting your sleep and how to fix it. Discover techniques, tips, and products specific to you. Take control of your sleep!

Sonaura, LLC

Fort Collins
www.mysonaura.com

An electronic two way communication system between patient and doctor allowing women undergoing IVF treatment to perform their sonograms at home during the follicle stimulation cycle.

Sopris Health

Denver
www.soprishealth.com

Improving physician satisfaction by dramatically reducing data entry.

Tech-X Corporation

Boulder
www.txcorp.com

Specializes in scientific and engineering software, including visualization and algorithm development.

Test Appropriate, LLC

Littleton
www.testappropriate.com

Provides a cloud-based web tool that allows clinicians to write orders during a patient visit for cardiac tests.

C TRIDENS

Arvada, Arizona
www.tridens.co

TRIDENS provides unique and meaningful benefits to our clients through differentiating platforms that increase business efficiency, improve patient outcomes, and enhance physician quality of life.

ValidCare, LLC

Centennial
www.validcare.com

Creates value-based surgical care models through collection and use of real-time, patient-reported data. Providers use the data to power care navigation and measure and improve cost and quality of care delivered.

C Velóce

Denver
www.veloce.com

Wireless drug delivery and monitoring systems.

Visible Hand

Denver
www.visiblehand.com

The Foresight app from VisibleHand provides real-time collaborative intelligence for behavioral care facilities that helps them document, share and implement resident data.

C Visible Network Labs

Denver
www.visiblenetworklabs.com

Visible Network Labs (VNL) is a social enterprise whose mission is to facilitate a supportive network of people, organizations and communities who believe in the value of working together. We provide training, opportunities for collaborative innovation, and technology-based tools that help people leverage network science to strengthen supportive connections and improve the outcomes of their work.

C Wellian

Boulder
www.wellian.com

Wellian™ is a wellness platform to correlate your lifestyles/habits with your health conditions and symptoms in order to help you improve your overall wellness.

Wellness Intel

Denver
www.wellnessintel.com

Developing an application to help patients make informed decisions about their healthcare.

RESEARCH & EDUCATIONAL INSTITUTIONS

C Advanced Diagnostic Laboratories (Adx) at National Jewish Health

Denver
www.njnlabs.org

National Jewish Health is known worldwide for treatment of patients with respiratory, cardiac, immune and related disorders, and for groundbreaking medical research. The Advanced Diagnostic Laboratories provide innovative services within the extraordinary clinical and research environment of National Jewish Health. Leveraging our expertise in both laboratory medicine and personalized medicine, we offer an ever-expanding menu of diagnostic tests, as well as contract research services. Our laboratories are CAP and CLIA certified, and have earned the prestigious CAP 15189SM accreditation.

C BioFrontiers Institute

Boulder
www.biofrontiers.colorado.edu

State-of-the art research and education facility that links the basic sciences, engineering, clinical practice, and industry at the University of Colorado's Boulder campus.

Biological Sciences Curriculum Study (BSCS)

Colorado Springs
www.bsccs.org

A nonprofit corporation that endeavors to improve all students' understanding of science and technology by developing exemplary curricular materials, supporting their widespread and effective use, providing professional development, and conducting research and evaluation studies.

Bonfils Blood Center

Denver
www.bonfils.org

One of the nation's leading community blood centers through their commitment to quality service, innovation, research and technology. Offering a full range of blood products and services to healthcare partners, including supplying rare blood units or helping to determine the best cross-matched unit to ensure the best possible patient outcomes.

CHI Institute for Research and Innovation (CIRI)

Englewood
www.chiresearch.org

Founded by Catholic Health Initiatives (CHI) in 2007, the CHI Institute for Research and Innovation partners with CHI hospitals and

physicians to further the advancement of healthcare. From pioneering new models of care delivery to creating partnerships within and outside of CHI, CIRI provides a research community fostering innovation in three distinct areas: 1. Center for Clinical Research (CCR): Sustaining clinical research and trials is costly and challenging. By creating a national model that uses standardized procedures, policies and IT infrastructures, CCR efficiently and effectively manages clinical trials across CHI's hospital network. 2. Center for Health Care Innovation (CHCI): CHCI pioneers new ways to deliver health care. This center is focused on creating and testing new models that will enhance care and better manage populations. 3. Center for Translational Research (CTR): The emerging and revolutionary field of biomedicine and genomics is the focus of CTR.

Centers for Disease Control and Prevention/ Division of Vector-Borne Infectious Disease

Fort Collins

www.cdc.gov/nceid/dvbid

The Division of Vector-Borne Infectious Diseases (DVBD) is part of the U.S. Centers for Disease Control and Prevention (CDC). CDC is the lead federal agency for protecting the health and safety of people at home and abroad. DVBD serves as a national and international reference center for vector-borne viral and bacterial diseases, such as West Nile virus, Lyme disease, plague, tularemia, yellow fever and dengue. It coordinates national disease monitoring activities, conducts field and laboratory research, responds to epidemic situations, develops strategies for disease prevention and control, provides diagnostic reference and epidemiologic consultation, and conducts technical assistance and professional training activities.

Children's Hospital Colorado

Aurora

www.childrenscolorado.org

Children's Hospital Colorado has been ranked for more than a decade as one of the best children's hospitals nationally in U.S. News & World Report, and is the consistent choice eight years in a row by area physicians for the care of their loved ones. With 1,130 pediatric specialists and more than 2,300 full-time employees, Children's Colorado is home to a number of nationally and internationally recognized medical programs including the Center for Innovation, providing an opportunity for innovators to come together to develop groundbreaking ideas that will enrich and save lives through better technology and healthcare.

C Colorado School of Mines

Golden

www.mines.edu

A public research university internationally recognized for its leadership in engineering, applied science and related disciplines, with a special emphasis on the Earth and its resources. These programs, with strong interdisciplinary linkages across the campus, have led to the integration of bioscience and biotechnology into educational and scholarly activities. CSM has created a Bioengineering and Life Science Program that draws upon faculty and students from all of the academic units.

C Colorado State University

Fort Collins, Pueblo, Denver
www.colostate.edu

As one of the nation's leading research universities, Colorado State University is committed to realizing its vision as a 21st century landgrant university. CSU leads the world in such areas as infectious disease research, atmospheric science and environmental science. Its faculty members are tackling such issues as the reemergence of tuberculosis, the brown cloud of air pollution in Asian cities, severe weather forecasting, nutrition and wellness, and bioterrorism. In addition to its excellent programs in those areas, CSU offers among the very best professional programs in the United States in areas like veterinary medicine, occupational therapy, journalism, agriculture and construction management.

Craig Hospital

Denver
www.craighospital.org

A world-renowned rehabilitation hospital that exclusively specializes in the neuro-rehabilitation and research of patients with spinal cord injury (SCI) and traumatic brain injury (TBI). Craig is a not-for-profit, free-standing, national center of excellence that has treated more than 31,000 patients with SCI and TBI since 1956.

CSU BioMARC

Fort Collins
www.biomarc.colostate.edu

A nonprofit CMO owned and operated by Colorado State University created to translate and produce biopharmaceutical products for non-clinical, clinical, and commercial use under Biosafety Level 3 (BSL-3) and BSL-2 containment (including spore former containment) and Select Agent (SA) biosecurity conditions. In addition to manufacturing and testing services, BioMARC offers product and process development services, which includes the creation of development programs focused on implementation of cGMP regulations and scalability issues.

C CSU Research Innovation Center

Fort Collins
www.csuric.org

The Research Innovation Center (RIC) serves as a vehicle to perform collaborative translational-stage research with CSU's life sciences community of researchers, giving it the promise to become the birthplace of medical breakthroughs.

C CU Innovations

Aurora
www.ucdenver.edu/anschutz/about/cuinnovations
Brings together industry partners, entrepreneurs, and investors to help CU researchers solve important problems and improve the quality of life worldwide. With expertise in patents, copyrights and licensing, CU Innovations helps translate discovery into impact through transparent, flexible, best practice intellectual property management services, and connect researchers

at CU's Anschutz Medical campus with a variety of commercialization programs in the University and the community.

DARTNet Institute

Aurora
www.dartnet.info

The DARTNet Institute is a rapidly growing collaboration of practice-based research networks that are building a national collection of data from electronic health records, claims, and patient-reported outcomes.

Denver Botanic Gardens

Denver
www.botanicgardens.org

One of the top-ranked botanical gardens in the U.S., Denver Botanic Gardens offers spectacular plant displays and unlimited opportunities for lifelong learning.

Denver Museum of Nature and Science

Denver
www.dmns.org

The Denver Museum of Nature & Science is the Rocky Mountain region's leading resource for informal science education. A variety of exhibitions, programs, and activities help Museum visitors experience the natural wonders of Colorado, Earth, and the universe. Its Expedition Health exhibit examines how the human body is constantly changing and adapting in ways you can see, measure and optimize through choices you make.

Denver Research Institute

Denver
www.dri-va.org
Denver Research Institute (DRI) serves as the non-profit organization affiliated with the VA Eastern Colorado Health Care System. It is dedicated to research and its associated educational and scientific endeavors.

Front Range Community College

Brighton, Fort Collins, Longmont and Westminster
www.frontrange.edu

Front Range Community College, Colorado's largest community college, provides instruction, in both general education and occupational areas, which may lead to a certificate, an associate degree, or transfer to a four-year institution. The college also provides college preparatory education, non-credit instruction for personal and professional development, and workplace skill development. With campuses located in Fort Collins, Longmont and Westminster, the college is proud of its many partnerships to provide quality programs that are responsive to the needs of its local communities.

C Keystone Symposia on Molecular and Cellular Biology

Silverthorne
www.kestonesymposia.org

A non-profit organization that serves as a catalyst for the advancement of biomedical and life sciences, by connecting scientists within and across disciplines at conferences and workshops held at venues that create

an environment conducive to information exchange, generation of new ideas, and acceleration of applications that benefit society.

National Institute of Standards and Technology (NIST)

Boulder
www.nist.gov

NIST is a non-regulatory federal agency that operates eight different science and advanced technology research divisions in Colorado. NIST's list of research accomplishments includes a NIST senior scientist winning the Nobel Prize in 2001 for creating the world's first "Bose-Einstein condensate." In 2003 another NIST scientist won a MacArthur Fellowship for discovering a new quantum gas and was named by Science as one of the top ten scientific advances of the year.

C National Jewish Health

Denver
www.njhealth.org
National Jewish Health, the nation's #1 respiratory hospital in the U.S., attracts thousands of adult and pediatric patients each year who come to us to team up with our expert physicians and researchers and seek treatment for respiratory, cardiac, immune and related conditions. National Jewish Health is also one of the most influential independent biomedical research centers in the world. More than 100 faculty members conduct basic, translational, and clinical research in immunology, respiratory medicine, allergy, cancer, and cell and molecular biology.

Power Mountain Engineering, Inc.

Fort Collins
www.powermountainengineering.org
Nonprofit afterschool program for gifted and talented students in grades 8-12 who are interested in a STEM career. Students meet with community volunteers for an entire semester to design and build an advanced project from raw materials. The program encourages our best students to take up college studies in STEM by immersing them in an authentic, hands-on R&D experience.

Regis University

Denver
www.regis.edu
The School of Pharmacy aspires to be the foremost school of pharmacy in the United States where students are nurtured and developed to become leaders in pharmacy practice, research, education, and public service. They are educated to be committed to excellence in healthcare, evidenced not only by their knowledge and abilities, but also by their quality of care, integrity, compassion, respect, advocacy, initiative, service and leadership. To achieve these goals, faculty members are dedicated to providing innovative practice models, exploring novel applications of basic and clinical research, and illustrating the value of lifelong learning.

Rose Medical Center

Denver

www.rosemed.com

Has earned a reputation as Denver's "Baby Hospital" while becoming a leader in comprehensive women's services, internal medicine, endoscopy, heart and vascular care, orthopedics and total joint replacement, bariatric surgery, sports medicine and aesthetic surgery.

Rocky Vista University College of Osteopathic Medicine (RVUCOM)

Parker

www.rvu.edu

Rocky Vista University College of Osteopathic Medicine (RVUCOM) has five departments – Biomedical Sciences, Structural Medicine, Primary Care, Osteopathic Principles and Practices, Specialty Medicine and Medical Informatics. The faculty and staff of RVUCOM are committed to osteopathic philosophy and heritage, and to advancing the science and the art of the practice of osteopathic medicine.

Scientific Education & Research Institute (SERI)

Thornton

www.theseri.com

SERI combines an orthopedic clinic, specializing in spine surgery, with a clinical research unit and an education and training program.

C Steadman Philippon Research Institute

Vail

www.sprivail.org

Orthopedic sports medicine, SPRI is unlocking the secrets of healing, finding cures and enhancing lives through regenerative medicine, scientific research, innovation and education.

Swedish Medical Center

Englewood

www.swedishhospital.com

Level I Trauma Center serves as the region's referral center for neurotrauma and is a recognized leader in the treatment of stroke. An acute care hospital with 368 licensed beds.

UCHealth Simulation Center

Aurora

www.wellssimulationcenter.org

The UCHealth Simulation Center on the Anschutz Medical Campus in metro Denver offers a complete array of state-of-the-art patient simulation tools for building clinical knowledge and advancing multi-disciplinary expertise in health care.

United States Geological Survey (USGS) - Center for Biological Informatics

Denver

www.biology.usgs.gov/cbi

The Center for Biological Informatics, at the Denver Federal Center, operates the national Biological Information Infrastructure (NBII). This is the first comprehensive electronic gateway dedicated exclusively to biological science data and information from sources throughout the world.

C University of Colorado

Boulder, Denver, Aurora, Colorado Springs

www.cu.edu

The University of Colorado System's 52,000 students and 28,000 faculty and staff contribute to every facet of life in Colorado. The state's economic vitality, educated workforce, entrepreneurial climate, cultural capital, health care delivery, and scientific explorations all rely on the driving force of a vigorous state university. By working with other CU academic and research units, as well as local, state, and federal funding agencies, commercial business, and nonprofit organizations, CU is creating a collaborative synergy in important areas that will better the wellness of society. Research and teaching hospitals affiliated with the University of Colorado include: The University of Colorado Hospital, The Children's Hospital, National Jewish Medical and Research Center, Denver Health and the VA Medical Center.

C University of Colorado Cancer Center

Aurora

www.uch.edu/colorado-cancer-center

The University of Colorado Cancer Center is Colorado's only National Cancer Institute designated consortium comprehensive cancer center. The center is a consortium of three state universities, including the University of Colorado Boulder, University of Colorado Denver and Colorado State University, and six institutions (University of Colorado Health, a network comprised of University of Colorado Hospital, Poudre Valley Hospital, Medical Center of the Rockies and Memorial Hospital; Children's Hospital Colorado; Denver Health, Denver VA Medical Center, Kaiser Permanente Colorado and National Jewish Health).

C University of Colorado Denver - Center for Surgical Innovation

Aurora

www.ucdenver.edu/csi

A multidisciplinary surgical training center dedicated to promoting educational courses and development of leading edge surgical techniques and technologies. The center is affiliated with the Department of Surgery in the CU School of Medicine.

C University of Colorado Denver, iC42

Aurora

bioanalytics.us

Research & Development to carry out pre-clinical and clinical drug development programs, through the evaluation of pharmacokinetics, drug metabolism and the development of clinical management tools. iC42 combines quantitative mass spectrometry and metabolic and protein profiling technologies under one roof. iC42 Clinical Research & Development is designed and uniquely qualified to carry out the bioanalytics for complex clinical trials involving drug quantification and molecular marker strategies. In addition, iC42 carries out research and development projects including molecular marker discovery and qualification, translational research and strategy development and the identification of molecular mechanisms.

C University of Colorado Health

Loveland, Fort Collins, Colorado Springs

www.uchealth.org

Poudre Valley Health System (PVHS) and the University of Colorado Hospital (UCH) finalized a joint operating agreement in early 2012 that creates a health system its leaders say will widen health care services and provide unparalleled patient care in the Rocky Mountain region. Called University of Colorado Health, the new system combines one of the top-performing community health systems in the nation with the highest-ranked academic medical center in quality in the country. With annual net revenue of \$1.5 billion, it will be one of the region's largest locally-owned health systems and, with nearly 10,000 employees, one of Colorado's largest employers.

C University of Denver

Denver

www.du.edu

Strives to provide the most modern educational and research facilities in the life sciences. Their history spans the Denver Research Institute's development of the first NASA life monitoring sensors, the establishment of a state-of-the-art forensics laboratory, and the 2003 acquisition of the Eleanor Roosevelt Institute with pioneering efforts in genomics and bioinformatics. The interdisciplinary mission of the University enabled the Department of Biology to launch new emphases in Bioengineering, Biophysics and Cognitive Neuroscience designed for molecular biology majors. In addition to strong and quality curricula, bioengineering and life sciences at DU carry multimillion-dollar-a-year research studies in the creation of new knowledge and leading edge biotechnologies to improve quality of life for a worldwide community.

C University of Northern Colorado

Greeley

www.unco.edu

The University of Northern Colorado (UNC) is a four-year doctoral-granting university with a Carnegie classification of "Doctoral Universities: Higher Research Activity" (R2). Established in 1889, UNC combines innovative teaching opportunities and community engagement with scholarly interests and research. The groundbreaking UNC Cancer Rehabilitation Institute is one example of translational research that reaches well beyond our campus community to international populations. UNC has garnered more than \$17.5 million in external funding over the last three years, ranging from National Science Foundation grants in biological anthropology to National Institute of Health-supported studies in psychology. Through research, UNC advances knowledge, engages students and makes a difference locally and globally.

MEMBER FOUNDATIONS

C Boettcher Foundation Webb-Waring Biomedical Research Program

Denver

www.boettcherfoundation.org

The Boettcher Foundation invests in the promise of Colorado and the potential of Coloradans. Its Webb-Waring Biomedical Research Awards provide biomedical research funding for early career investigators at Colorado's research institutions. Our biomedical research institution partners manage their own internal, competitive and peer-reviewed application processes. For information, contact your institution.

C CSU Ventures, Inc.

Fort Collins

www.csuventures.org

CSU Ventures, Inc. (CSUV) is a 501(c)(3) non-profit corporation that actively supports and promotes the transfer of Colorado State University (CSU) research and innovations into the marketplace for the benefit of society. CSU Ventures serves CSU faculty and researchers who wish to protect and license intellectual property; builds relationships with industries and investors seeking to engage with CSU; and leverages CSU innovation to foster business formation and enhance regional economic vitality.

C Morgan Adams Foundation

Denver

www.morganadamsfoundation.org

The Morgan Adams Foundation helps fill the gap between the limited pediatric cancer research dollars available and critical projects that might otherwise go unfunded. By providing seed, bridge gifts and grants for research exploring more effective and less-toxic therapies for the treatment of pediatric cancers, we are funding hope.

C University of Colorado Office of Advancement

Aurora, Boulder, Colorado Springs

www.cu.edu/advancement

The University of Colorado Office of Advancement collaborates with faculty, staff, benefactors, alumni and friends to raise private support for the university by matching the passions of benefactors with the needs, priorities and goals of each campus.

COMMUNITY PARTNERS

ASQ (American Society of Quality)

www.asq.org/perl/section_list.pl?Colorado

ASQ is a global community of people passionate about quality, who use the tools, their ideas and expertise to make our world work better. ASQ: The Global Voice of Quality.

C Boomtown

Boulder

www.boomtownaccelerator.com

An innovative and effective start up accelerator with a strong curriculum, excellent mentors, and a leadership staff that is passionate about what they do. All of this is centered within Boulder, CO, which has a higher concentration of startups than anywhere else in the U.S.

CIVHC

Denver

www.civhc.org

Helps Colorado drive, deliver and buy value in health care by administering the Colorado All Payer Claims Database; unlocking information and insights that guide how healthcare gets delivered, used and paid for; and bringing together organizations and individuals to design and drive collective change.

CORHIO

Denver

www.corhio.org

Its health information exchange (HIE) technology, data analytics tools and consulting help healthcare providers access information to save lives, streamline care coordination, reduce costs and improve clinical outcomes.

C Fitzsimons Innovation Community

Aurora

www.fitzsimonsinnovation.com

Offers a range of opportunity to life sciences research and development companies of all sizes, from small start-ups to established industry leaders. Within the campus, more than six million square feet of corporate and bioresearch facility space are being developed for companies and firms focusing on the science and technology sectors. From cutting-edge lab facilities to advanced technical support systems, everything at the Fitzsimons Innovation Campus is designed specifically for the life science industry.

FRaBSA (Front Range Biological Safety Association)

www.frabsa.org

Local affiliate chapter to International ABSA (American Biological Safety Association). Focus is promoting the principles of biological safety and providing a forum for dissemination of information. Membership includes EH&S officers at universities, government, industry and service providers that support their needs.

i2sl Colorado Chapter

www.i2sl.org/globalcommunity/chapters/colorado.html

The I2SL Colorado Chapter seeks to be a local resource and community for high-tech laboratory and data center users, builders, and suppliers. The chapter offers quarterly and annual meetings focused on technical topics, visiting built projects, and meeting with like-minded individuals to collaborate and develop further ideas for the industry.

C Innosphere

Fort Collins, Denver, Boulder

www.innosphere.org

A high-tech incubator supporting entrepreneurs building high-growth companies in the industries of health innovation, life sciences, software & hardware, and energy & advanced materials. Innosphere's incubation program focuses on ensuring companies are investor ready, connecting them with experienced advisors, and making introductions to corporate and strategic partners.

PDA MS (Parenteral Drug Association, Mountain States Chapter)

www.pda.org/chapters/north-america/mountain-states

Local chapter of PDA (Parenteral Drug Association) the leading global provider of science, technology and regulatory information and education for the pharmaceutical and biopharmaceutical community.

RM ISPE (Rocky Mountain Chapter of International Society of Pharmaceutical Engineers)

www.ispe.org/rockymountain

The Rocky Mountain Region is among the fastest growing biotechnology/pharmaceutical communities in the nation. The chapter was established in 1996 to accelerate the awareness and visibility of the biopharmaceutical and medical device community through networking and educational opportunities. The strengths of the chapter are visible with its large user involvement and the depth of technical programs provided. National speakers are invited often to share current trends and other relevant technical material to the chapter.

RMRCsQA (Rocky Mountain Regional Chapter Society of Quality Assurance)

www.rmrcsqa.org

SQA is an association of over 2,200 QA professionals who are dedicated to implementing Good Clinical Practices (GCPs), Good Laboratory Practices (GLPs) and Good Manufacturing Practices (GMPs) in industry, governments, academia and consulting.

RMRAS (Rocky Mountain Regulatory Affairs Society)

www.rmras.org

The Rocky Mountain Regulatory Affairs Society (RMRAS) is a non-profit organization for professionals involved in the regulation of medical devices, pharmaceuticals, biologics, and nutritional products. Our vision is to advance the understanding and practice of worldwide medical Regulatory Affairs for members in the Rocky Mountain region.

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www.rootvaluation.com

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www.velocitybiogroup.com

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www.biotectservices.com

Care Research, LLC/Colorado Histo-Prep
www.careresearchllc.com

CPC Clinical Research
www.cpcmed.org

Illingworth Research Group
www.illingworthresearch.com

Microbial Research, Inc.
www.microbialresearch.com

National Jewish Health / ADX Labs
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www.PreClinicalResearch.com

Premier Laboratory
www.premierlab.com

Pyxant Labs, Inc.
www.pyxant.com

Rocky Mountain Poison & Drug Center
www.rmpdc.org

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PADT
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Phase Three Product Development
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Prospect Life Sciences
www.prospectlifesciences.com

RowMed
www.row-med.com

System Insight Engineering
www.systeminsightengineering.com

Vista Engineering Group
www.vistaengineeringgroup.com

DATA SYSTEMS

Skyland Analytics, Inc.
www.skylandanalytics.net

ECONOMIC DEVELOPMENT

Adams County Economic Development, Inc. (ACED)
www.adamscountyed.com

Aurora Chamber of Commerce
www.aurorachamber.org

Aurora Economic Development Council
www.auroraedc.com

Boulder Economic Council of the Boulder Chamber
www.bouldereconomiccouncil.org

City of County of Broomfield, Economic Development Department
www.investinbroomfield.com

Colorado Office of Economic Development and International Trade (OEDIT)
www.choosecolorado.com

Metro Denver Economic Development Corporation
www.metrodenver.org

Town of Parker
www.parkeronline.org

ELECTRONIC SUBMISSIONS

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www.trusubmit.com

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Silicon Valley Bank (SVB Financial Group)
www.svb.com

INCUBATORS AND ACCELERATORS

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www.boomtownaccelerator.com

Fitzsimons Innovation Community
www.fitzsimonsinnovation.com

Innosphere
www.innosphere.org

INSURANCE

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www.kslaw.com

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www.pearlstreetlegal.com

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www.idea-asset.com

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