

BioScience

• C O L O R A D O

2020-2021



STRONGERTOGETHER



BioSCIENCE

• C O L O R A D O

2020-2021



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DEAR CBSA MEMBERS + SUPPORTERS,

COlorado's life sciences ecosystem drives health innovations that save and change lives around the world. This is critical work. It inspires Colorado BioScience Association to lead the way with co-opportunity, our commitment to build a collaborative, pro-innovation environment for life sciences in Colorado.

Our ecosystem continues to grow and thrive, with new companies and organizations choosing Colorado. CBSA members and those in our life sciences ecosystem reached significant milestones in 2019 and early 2020, achieving regulatory approvals, securing state and federal grants, closing funding rounds, and launching new products. Our M&A environment is also thriving: one of the largest life sciences acquisitions in Colorado history closed in 2019.

The importance of health innovation and CBSA's role to build supportive networks for life sciences came into sharp focus with COVID-19. Many of our members pivoted quickly as the virus spread across the globe, working to develop solutions to detect, prevent, and treat the novel coronavirus.

In this edition of our annual BioScience Colorado Magazine, we talk to the big thinkers and bold leaders from our community about how the pandemic will change research and development, clinical trials, and public-private partnerships. We also highlight innovative companies and organizations working in Colorado to improve human and animal health worldwide.

Our team and board of directors are proud to support a thriving life sciences ecosystem that includes more than 720 companies and organizations representing biotechnology, pharmaceutical, medical device, diagnostics, ag bio, animal health, digital health, research and academic institutions, and service providers.

CBSA PRIORITIZES INVESTMENTS IN FOUR AREAS TO ADVANCE OUR COMMUNITY:

- Capital + Growth
- Policy + Advocacy
- Education + Networking
- Workforce Cultivation

Health innovation will lead us to better days, with the testing and surveillance, critical treatments, and vaccines we need to end this global pandemic.

Stronger Together,



Jennifer Jones Paton
President & CEO
Colorado BioScience Association



Jennifer Jones Paton
President & CEO



Emily Roberts
Vice President



Steve Ambriz
Administrative Services Director



Tracey Nilson
Director of Partnerships



Natalie Allen
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Meg John
Vice President, Colorado BioScience Institute

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GLOBAL IMPACT:

COLORADO LEADS DURING COVID-19

Scott Hutton
President and CEO
Biodesix

THE COVID-19 pandemic represents a defining event in our collective lifetimes. To adapt, we are rapidly reshaping how we live, learn, work, conduct research, and do business. The future is certain to bring more change. It is also sure to engender innovation, discoveries and ideas, new technologies, and new therapeutics that will benefit the world and future generations. We asked some of Colorado's life sciences thought leaders to weigh in on the creativity, determination, and willingness to act that drive innovation within our ecosystem.

Alan Rudolph, Ph.D., is vice president for research at Colorado State University. Based on his long career in public emergency preparedness, Rudolph has been impressed with how well Colorado's life sciences ecosystem has responded to this crisis.

"It's been so great to see the Colorado ethos in play," says Rudolph. "CSU, CBSA and our academic, commercial, and governmental partners remain right on the front lines of the

conversations about personal protective equipment, diagnostics, modeling, tracking, and countermeasures."

He expects that researchers in the state and all over the world will be confronting big questions and big changes in the years ahead.

"It will be central to figure out how we reinvest in future resilience and preparedness for the next public health crisis and the next," he says. "COVID will fundamentally change how we think about diagnostics, therapeutics, and the public exchange of health information from clinical, animal, and agricultural health verticals. I also think we'll see changes in our approach to regulating drug development. We'll see new systems with broader-spectrum regulations to give us more agility."



Alan Rudolph, Ph.D.
Vice President for Research
Colorado State University



OUR PASSIONATE RESPONSE, RIGOROUS CURIOSITY, AND COMMITMENT TO COLLABORATION ARE FUELING FUTURE INNOVATION

WRITTEN BY JEANNE MCADARA, PH.D.

Scott Hutton, president and CEO at Biodesix, sees a community well prepared to meet the challenge of this transformational event for life sciences and those challenges that lie ahead.

“Change is constant in this industry. To thrive, our community has had to be profoundly adaptable,” says Hutton. “We have excelled because we recognize that a research discovery or innovation made tomorrow could instantly change how we work and what we’re working on. Being comfortable with uncertainty has served us well in that we have resisted complacency and are able to pivot rapidly to meet challenges and capitalize on every opportunity.”

Hutton sees reflections of his own company’s grounding in “communication, collaboration, and cooperation” throughout the life sciences community in Colorado.

“How you conduct business—and with whom—are what matters, in good times and troubled ones. It’s been humbling to be part of Colorado’s response to COVID-19,” he says. “You can get really used to working toward extraordinary goals with extraordinary people, and still be surprised by how much more their

dedication and capabilities stand out when called to meet a crisis like this.”

What does Hutton see as the next areas for intense scientific focus?

“Going forward I think we’ll see a significant amount of effort placed on better understanding the antiviral immune response. What does it mean to have antibodies against SARS-CoV-2? Will they be neutralizing; will they be immunoprotective? If they are, how long can we expect them to last? How long and how many tries will it take to get an effective vaccine, and how can what we learn now improve vaccine technology for future pandemics?”

According to Roy Smythe, M.D., CEO of SomaLogic, the urgency of the pandemic response may ultimately lower existing barriers to commercializing important innovations in specific areas like public health.

“Digital health companies like ours have a backlog of tools to improve baseline population health, and help deliver efficient, equitable access to healthcare,” says Smythe. “I predict we’ll see a new push to implement these tools in

preventive and public health, and to accelerate innovative changes to the healthcare system that many of us have long felt to be inevitable.”

“For example, SomaLogic’s tools look at thousands of proteins at a time to predict health risks. Our goal is to detect how severe an individual’s disease course might be before they even become infected, identify people who need vaccines first, who can safely return to work, and add a layer of protection for healthcare workers and vulnerable populations.”

As the U.S. and world focus on predictive and preventive diagnostic technologies, Smythe believes we will also better appreciate and acknowledge the fundamental benefits of life sciences to human progress and global prosperity.

“Globally, bioscience has become a top industry in terms of value creation,” says Smythe. “And even more importantly,



Roy Smythe, M.D.
CEO
SomaLogic



Thomas Flaig, M.D.
Vice Chancellor for Research
CU Denver and CU Anschutz

humanity needs science if we want to continue to persist and prosper. This pandemic presents new incentives for the U.S. to rethink how we can best support the life sciences and remain competitive with other developed countries.”

Thomas Flaig, M.D., vice chancellor of research at University of Colorado Denver and the University of Colorado Anschutz Medical Campus, also notes how urgency surrounding innovation has highlighted new ways to streamline the therapeutic development timeline.

“Almost overnight, the timelines for onboarding clinical trials compressed from months to weeks,” says Flaig. “Of course, a lot of that is due to the hard work and dedication of staff and sponsors motivated to address the COVID crisis, but I think we will see an analysis of what happened differently and efforts to sustainably harness those efficiencies in the future to open more trials more quickly.”

Flaig notes that an approaching challenge—and opportunity—as we settle

into a more stable state will be to identify new ways to keep people safe and still foster the social micro-interactions that are fundamental to scientific pursuit.

“Research is fueled by people with passion for that new idea, that new finding, that chance to exert positive impacts on human health, longevity, and quality of life,” says Flaig. “And science is a more social endeavor than we sometimes appreciate. I think we are going to see a lot of thinking and innovation around how to preserve team-driven science—and the individual passions it drives—in a socially distanced world.”

Commenting on the role that companies and organizations within the life sciences ecosystem play in the state’s economy, Betsy Markey, executive director of the Colorado Office of Economic Development & International Trade, notes that support for life sciences keeps Colorado strong and ready for future challenges.

“Life sciences companies steady our economy,” she says. “They represent stable, good-paying jobs and ensure that Colorado remains in a good position to respond to future disruptions because of the strong ecosystem we’ve built here. Supporting innovation and development through programs like the Advanced Industries Accelerator Grant continue to showcase our state as a model for the rest of the country.”

Markey says challenging times unleash innovation and will ultimately yield benefits to residents of the state and all over the world.

“This crisis continues to spur agility, innovation, and collaboration all over the state as companies adjust to new customer habits and adopt reimaged work models,” says Markey. “We are learning from these rapid changes and seeing new benefits in technologies like telehealth, for example. It has been astounding how quickly it’s taken off during the pandemic and has been particularly valuable to our more remote and rural communities. That’s likely to be a lasting change with more improvements on the horizon.”



Betsy Markey
Executive Director of the
Colorado OEDIT

Jennifer Jones Paton, president and CEO of the Colorado BioScience Association, says the pandemic only heightens the community’s need for a pro-innovation environment to support the commitment to saving and changing lives around the world.

“CBSA collaborates with the State of Colorado, the Office of Economic Development and International Trade, chambers of commerce, and economic development groups,” says Jones Paton. “These partners recognize the impact of life sciences

“Health innovation will end this crisis. Our ecosystem is making vital contributions to this global effort.”

and want our ecosystem to thrive. They provide us with guidance about business funds and assistance and how to keep our essential life sciences researchers and workers safe. They helped ensure that the General Assembly understood the value of the Advanced Industries Accelerator Grant Program and partnered with us to save it from damaging budget cuts. Together, we are committed to advancing the vital work of our ecosystem and supporting Colorado’s prosperity.”

In both the near and long-term future, Jones Paton says priorities including

capital and growth, policy and advocacy, and workforce cultivation will endure within the life sciences community although they, too, will be influenced by changes rippling through the national and world economies.

Unexpected changes often serve as a growth engine and catalyze new ways of thinking, invention, and of transformative breakthroughs.

With its passionate response, Colorado’s life sciences community is well positioned to survive, thrive, and create a better

future. “From the very beginning, everyone pulled together and, without hesitation, offered up their resources for the good of patients and healthcare workers, explored natural partnerships as well as new and unexpected ones, learned from each other, and shared information,” Jones Paton reflects. “Health innovation will end this crisis. Our ecosystem is making vital contributions to this global effort. It is a privilege to see our ecosystem rise to every new challenge the world throws its way.”



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STRONGER TOGETHER: NEWCOMERS MAKE THE CASE FOR COLORADO

Photo Courtesy: Zoetis

WRITTEN BY KAREN BROWN

COlorado is fast becoming a heavyweight in the global life sciences arena – and it has built even more muscle in recent years thanks to a rapidly evolving, collaborative ecosystem.

The state is home to more than 720 companies and 32,000 workers in fields that include ag bio and animal health,

biotechnology and pharmaceuticals, medical device and diagnostics, and digital health. They are joined by a steady stream of companies moving to Colorado. When you talk to these newcomers, they share consistent themes that led them to the Centennial State: a talented and educated workforce, an attractive environment for business and perhaps most crucially, a supportive ecosystem that offers

resources and advice on issues ranging from hiring to the recent COVID-19 pandemic.

NOVARTIS GENE THERAPIES: LONGMONT

One such business is Novartis Gene Therapies, which develops cutting-edge gene therapies to combat life-threatening neurological diseases.

The company needs room to grow thanks to a promising new treatment for babies born with spinal muscular atrophy caused by a missing or malfunctioning survival motor neuron 1 (SMN1) gene. Branded Zolgensma®, the therapy uses a modified virus to deliver a functional copy of the SMN1 gene via a single IV treatment. When the corrected gene is absorbed, these small patients' bodies can produce a critical protein, halting the disease progression. It received conditional approval from the European Commission (EC) in May 2020.

Looking to expand, Novartis Gene Therapies purchased a drug manufacturing facility in Longmont from AstraZeneca in April 2019. When it comes online, the facility will supply six buildings with 700,000-square-feet for biologic drug manufacturing, offices, laboratories, warehousing and utilities.

The company chose Longmont not just because of the facility but also the local talent pool, including a strong pipeline of future talent fed by the science, technology, engineering and math (STEM) programs at University of Colorado Boulder, Colorado State University and the Colorado School of Mines, said Sally Dyer, the company's vice president of manufacturing operations and site head.

Colorado's vibrant life sciences community also influenced the decision. Colorado BioScience Association and the Colorado BioScience Institute, a 501 (c) (3) organization that focuses exclusively

on training, education, and workforce development, have "really enabled us to be more collaborative as a group and work together to highlight what's important to us as an industry – especially with having so many different, smaller companies and startup companies in the area," she said.

Novartis Gene Therapies plans to use the Longmont facility to help develop gene therapies beyond Zolgensma – and contribute to Colorado's growing gene therapy leadership.

"We couldn't be more excited about being in Colorado than we are, and to be doing this novel type of approach to treating patients," Dyer said. "We are in the right place, for sure."

CERAPEDICS: WESTMINSTER

Colorado also is the right place for Cerapedics, a company that serves the orthopedic and spine surgeon community worldwide. The Westminster-based company is the brainchild of Andrew Tofe, Ph.D., an expert in bone regeneration therapies. As CEO of CeraMed Dental, he developed three types of bone substitutes for use in dental restoration.

Tofe realized the technology's potential beyond dental reconstruction. In 2006, he founded Cerapedics and developed i-FACTOR, a bone graft material for patients with degenerative cervical disc disease. The drug-device combination provides a structural framework that triggers patients' cells to regrow bone.



AGC BIOLOGICS CHOOSES COLORADO

The global biopharmaceutical Contract Development and Manufacturing Organization (CDMO) joined Colorado's life sciences ecosystem in June of 2020. The company will invest \$100 million in a state-of-the-art commercial manufacturing facility in Boulder. It will bring 280 new jobs to Colorado as part of a package of state and local incentives. The facility is expected to begin full-scale operations and manufacturing by April 2021.

Since its commercial launch in 2016, i-FACTOR has grown into a multimillion-dollar business, with a 250% increase in sales in 2018 and a 70% jump in sales in 2019. To support that growth, Cerapedics has increased its Colorado team from 16 to 58 and overall headcount from 26 to 94, according to General Manager Edward Sawyer.

A July 2019 expansion at its Westminster headquarters bumped up the floorspace from 14,000 to 24,000 square feet.

That allowed Cerapedics to bring its Memphis-based third-party distribution operations to its headquarters, alongside its manufacturing, lab, research and development, and back-office operations.

The company credits the Colorado life sciences ecosystem as a key factor in its growth, including an ample talent pool and a collaborative environment. The community in Colorado is “more genuine and real, in the sense that you really, truly can call up somebody and ask them for help and advice,” said Sawyer. “You don’t get that anywhere else. You get the collective.”

The COVID-19 outbreak offers a timely example. CBSA serves as a clearinghouse for information about the state response and financial resources, and “just to be able to have names you can contact, people who you know will help you that can help you – that just means the world,” Sawyer said.

ZOETIS: FORT COLLINS

Contact with the larger life sciences community also lured Zoetis to the state. The company of 10,600 employees worldwide spun off from Pfizer in 2013 and is a leader in the discovery, development and sale of vaccines, medicines and feed additives for pets and livestock. Zoetis offers a portfolio of 300 products available in more than 100 countries and boasts annual revenues of more than \$6 billion.

The company established operations in Colorado to take advantage of the state’s

animal health and protein engineering communities. Zoetis Research Director Lisa Bergeron, Ph.D., moved from Michigan to Boulder to continue her work

as part of the company’s biotherapeutics research and development.

Shortly after Bergeron arrived, Zoetis doubled down on its Colorado investments, signing an agreement in July 2019 with Colorado State University to establish the Zoetis Incubator Research Lab to develop new immunotherapies for cattle. The 3,000 square-foot facility lab opened in January of 2020.

The company considered multiple locations for the incubator laboratory, but Colorado “just seemed like the obvious choice,” Bergeron noted. “Zoetis follows the science, and it was clear that CSU has some of the most innovative science around infectious diseases as well as veterinary medicine. The vibrant bioscience community in the state of

Colorado played a role as well, and it was also just the people—CSU has been so open and accepting and accommodating, to help build a facility there.”

The company’s developing relationship with the Colorado life sciences ecosystem also is bearing other fruit.

“We have been communicating with some of the biotechs across Colorado and are starting to build up some collaborations and have conversations,” Bergeron said. The community “really seems to be growing, and so we are really fortunate in being able to be a part of it and for the collaboration opportunities that we’ve seen so far.”

SOPHIA GENETICS: FITZSIMONS INNOVATION COMMUNITY IN AURORA

Likewise, Lausanne, Switzerland-based SOPHiA GENETICS chose Colorado because of the people.



Cerapedics produces i-FACTOR, a drug-device combination.

The data-driven medicine company has developed and markets an artificial intelligence platform that precisely analyzes medical data, including radiomic signatures of medical imaging and genomic data to support cancer and hereditary disorder research. It now facilitates one of the largest information ecosystems in the world, with more than 1,000 hospitals worldwide using the SOPHiA Platform to support research institutions and hospitals with highly accurate data.

With the twin goal to expand its research and its presence in North America, in March 2020 the company selected the Fitzsimons Innovation Community in Aurora as home for a new facility, bringing 100 new jobs including data science and IT specialists to Colorado. Aurora stood out from other candidate locations not only because of the local talent pool and central U.S. location but also because of the thriving bioscience community, according to Kevin Puylaert, the company's vice president of business development.

"We considered every major metropolitan area in the United States that had any scientific bent whatsoever," he said. "It still has to come down to just that one piece of the equation, which was the people. The people in Aurora and that marketplace just seemed so keen – incredibly keen on having a technology company like SOPHiA join their community. And for us, that was the deciding factor."

However, those plans were put on hold due to the COVID-19 pandemic. With the



Jurgi Camblong, Ph.D.
SOPHiA GENETICS
CEO and Co-Founder

expansion delayed, the company chose to join the battle against the virus, teaming with longtime partner and genetic test provider Paragon Genomics to offer a test covering 99% of the SARS-CoV-2 gene set, otherwise known as its genome. Then, within just two months SOPHiA GENETICS built the AI-powered solution to analyze the viral genome. They can now compare insights from the viral data with human "host" genetic information, providing a valuable resource for researchers to further medical knowledge.

Back in Colorado, SOPHiA has seen encouraging signs from the pandemic response across the state's life sciences community.

"The community rose to the occasion and openly, earnestly collaborated," Puylaert observed. "So it just reaffirmed our choice. We're coming to the right place. We know that this is a place where everybody will pull together to make these rapid advancements in data management, data pooling and knowledge-sharing. The collaboration portion of that is of great interest, and it's what we're all about."

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Joey Azofeifa,
Arpeggio Biosciences
founder and CEO

ACCELERATING INNOVATION:

THE STORIES BEHIND THE NUMBERS

WRITTEN BY KAREN BROWN

FOR more than 14 years, Colorado's state-funded Advanced Industries Accelerator Grant Program has been a wellspring for life sciences innovation and economic growth. Since its inception, the grant program, run by the state Office of Economic Development and International Trade (OEDIT), has created 975 life sciences jobs, 81 companies and close to \$1 billion in additional investments.

Behind these numbers, there are equally compelling stories to be found in the startups themselves. These early-stage ventures have made medical breakthroughs and designed

innovative products to improve healthcare on a global basis – all making for a strong argument to continue the program well into the future.

BRAVA DIAGNOSTICS: TAKING EMERGENCY ROOM TESTING TO HEART

Brava Diagnostics (Boulder) believes its cardiac test now in development can reduce the time it takes to diagnose heart attacks – and it's banking on its \$250,000 Advanced Industries Accelerator Grant to make the test available to emergency room doctors more quickly.

Every year, about eight million Americans go to hospital emergency rooms complaining of chest pains. A recent study found that about 87% of these patients are not suffering from a heart attack, but about 4.2 million – or about 53% – that are admitted wait on test results. That delay leads to overcrowded emergency departments, higher medical costs and increased patient stress.

Enter Brava, which has developed a high-sensitivity troponin (hs-cTn) protein marker test that can produce results within 15 minutes. Armed with this test, emergency departments could diagnose heart attacks more quickly and send low-risk patients home earlier.

“What this means to the U.S. healthcare system is that we believe that if this is adopted widely – and we think it should

be – it could rip \$7 billion of costs out of our healthcare system, because you are sending these people home sooner,” Brava CEO Byron Hewett said.

The Advanced Industries Accelerator Grant will help Brava bring its troponin test to market sooner. Without it, the company would have had to raise funding to hire a protein scientist and a director of cardiac assay development to oversee the lengthy U.S. Food and Drug Administration (FDA) approval process. With the grant, Brava can add these positions now, and its troponin test could be available in hospital emergency departments in 2022.

Hewett gives back to the community by serving as a reviewer for the Advanced Industries Accelerator Grant program. His company merged with MBio Diagnostics in July 2020.

PROOV: NURTURING FERTILITY WITH BETTER TESTING

Amy Beckley, Ph.D., struggled to get pregnant. That experience gave birth to a hormone therapy business that is now helping thousands of women – and an Advanced Industries Accelerator Grant is nurturing that business.

Infertility is a condition Beckley knows all too well. After a stressful and expensive round of *in vitro* fertilization, she gave birth to a healthy son. But for her second pregnancy, she tapped her Ph.D. in Pharmacology and research skills to track her hormone levels. She found she had low levels of progesterone, which can lead to infertility and pregnancy loss.

With the help of a relatively inexpensive prescription hormone supplement, she delivered a healthy daughter – and in the



COLORADO

Office of Economic Development & International Trade

The Advanced Industries Accelerator Grant Program, run by the state Office of Economic Development and International Trade (OEDIT), provides critical, early-stage funding for promising life sciences companies. Colorado BioScience Association advocates tirelessly to support and grow this program. It's a cornerstone of Capital + Growth for life sciences in Colorado.

CBSA supported the creation of the original Bioscience Discovery Evaluation Grant Program (BDEGP) in 2006 and worked with legislators to expand state-funded grants in 2013 based on their success. Now known as the Advanced Industries Accelerator Grant Program, it supports job

creation and innovation in Colorado's seven designated Advanced Industries.

In 2020, CBSA mobilized our ecosystem's support and led a successful effort on behalf of the state's Advanced Industries to preserve partial program funding during severe budget shortfalls due to COVID-19.

Colorado's Advanced Industries anchor our economy, driving nearly 30% of the state's total wage earnings and 30% of total sales revenue. CBSA looks forward to working with the General Assembly to restore and grow funding for the Advanced Industries Accelerator Grant Program, a proven job-creator for Colorado.

process conceived of Proov, an easy, five-minute at-home test that tracks women's progesterone levels.

Beckley founded MFB Fertility (Boulder) and started production of the Proov test in her basement. She sold 100,000 tests in 2017 with only word-of-mouth marketing. By early 2018, she realized that with demand for Proov rising, she had to up-level her product design and marketing.

So Beckley applied for and won a \$250,000 Advanced Industries Grant, using the funds to rebrand the company as Proov. The funding also allowed her to improve the test kit packaging, revamp the Proov website and upgrade marketing and messaging.

The proof is in the revenue, with a tenfold increase in sales as of March 2020 – and more to come. In April, Proov distribution expanded to include select Target retail

stores. A new mobile app allows women to set up testing reminders and track their hormone levels.

ARPEGGIO BIOSCIENCES: FUSING BIG DATA WITH MOLECULAR BIOLOGY

An Advanced Industries Accelerator Grant is triggering growth for Arpeggio Biosciences (Boulder) and its cutting-edge drug evaluation platform.

The Boulder-based company began in 2018 as a supplier of assay tests to determine how drugs were interacting with non-coding DNA sequences. Non-coding DNA are the focus of cutting-edge epigenetic therapies because they can be turned on or off by drugs.

In the process, Arpeggio amassed a significant database of non-coding ribonucleic acid (RNA) that seemed important when

treating certain cancer types. So Arpeggio built an automated system that collects information about which genes turn on or off as a drug is administered. Using data algorithms to parse through these dense data results, Arpeggio could then map the biological processes a drug affects and identify the genes critical for the success or failure of the drug.

It was a system with a lot of market potential, but it needed funding to develop. So Arpeggio applied for and received an Advanced Industries Accelerator Grant in May 2019. With that funding, Arpeggio hired a post-doctoral expert to oversee the project, expanded its RNA experiments and invested in big-data software.

“One of the things that we wanted to develop with the grant is a new drug screen for these epigenetic areas,” founder and CEO Joey

ADVANCED INDUSTRIES ACCELERATOR GRANT PROGRAM ROI

Since inception, the state Office of Economic Development and International Trade (OEDIT) has awarded more than 450 grants to Colorado companies and researchers. The program makes a significant impact in the state, creating:



81 new
LIFE SCIENCES
COMPANIES



975
DIRECT JOBS



\$972 million
IN FOLLOW-ON CAPITAL AND INVESTMENTS
TO LIFE SCIENCES COMPANIES

Azofeifa explained. “If we think that these regions of the genome are really important for disease, then we need to make an assay that can screen 10,000 drugs at minimum and look for which ones are changing the epigenome.”

Arpeggio also capitalized on the grant funding during its initial \$3.2 million seed funding round completed in the fall of 2019. Azofeifa mentioned the accelerator grant “multiple times during our fundraise. It provided a sense of legitimacy.”

“For early-stage companies especially like ours where the founders are young – we’re not veterans of pharma and we don’t have a huge CV in that way,” he added. “Having the support of Colorado state government really helped in our case.”

SECURISYN: BREATHING LIFE INTO EMERGENCY RESPIRATORY CARE

The Advanced Industries Accelerator Grant Program gave Securisyn a valuable lifeline to develop its SolidAIRity respiratory device.

The product is the brainchild of Arthur Kanowitz, M.D. An emergency physician, he wanted to solve a life-threatening problem: endotracheal breathing tubes sometimes become dislodged during ventilation in emergency transport or hospital settings, resulting in patient injury or even death. So Kanowitz founded Securisyn (Highlands Ranch) and developed SolidAIRity, a small, ribbed attachment that locks onto the endotracheal tube and holds it in place.

Securisyn needed funding to bring SolidAIRity to market. The company applied for and won a \$250,000 Early Stage Capital and Retention grant in November 2018.

Timing was everything: Securisyn’s initial seed funding was running low, and it wasn’t quite ready to begin another funding round.

“So those grant funds were a really important bridge for us in what they sometimes call ‘the valley of death,’” said Securisyn Co-Founder, COO & CFO Elyse Blazeovich. “It was a really important vehicle for us to say that we had received grant funding from the state of Colorado, which of course creates confidence for follow-on investors.”

The grant helped Securisyn sharpen its marketing pitch, allowing it to raise another \$3 million in private and \$1.9 million in federal funding, president & CEO Mark Bruning said.

“When you look at what we did before that and what we did after that, I think we were just more focused,” he said. “We were able to get across the things that

were important to investors in a much shorter period, with more impact.”

The grant also provided validation for Securisyn, convincing hospitals to take part in the limited trial. And it opened the door for other grants, including the public-private MEP National Network’s Manufacturer’s Edge grant program.

“It really is a catalyst – it’s that momentum that you build that brings more opportunity to the company and therefore to the industry, because now that we are familiar with those partnerships and those opportunities, we have the ability to share those resources with fellow companies in the ecosystem,” Blazeovich said.



Arthur Kanowitz, M.D. FACEP
Founder, Chairman,
Chief Medical Officer
Securisyn Medical

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ADVANCED INDUSTRIES ACCELERATOR GRANT RECIPIENTS

PROOF-OF-CONCEPT GRANTS

Support identification and development of discoveries into products for commercialization.

EARLY-STAGE CAPITAL & RETENTION GRANTS

Fund companies to create or manufacture viable products in Colorado and export them globally.

EARLY-STAGE CAPITAL & RETENTION GRANT RECIPIENTS

Allander Biotechnologies, LLC

Allander Biotechnologies is developing a protein therapeutic to treat patients suffering from inflammatory disorders with unmet medical needs. Our initial topical therapy will help cancer patients suffering from oral mucositis, a debilitating side effect of their cancer therapy that can limit their ability to receive the most efficacious treatment.

AmpVision

There is a billion dollar industry that hinges on patients receiving a needle injection in their eye every month. We are going to change that. Our technology can be implanted once and provides protection equivalent to 40 injections.

BioLoomics, Inc.

Each year, thousands of pharma companies test thousands of drugs in clinical trials with a 99% failure rate. Our tech can shift some of this failure from inside clinical trials to preclinical development. This tech uses AI to compare both the on and off target effects of new drugs to that of known drugs, revealing a proportion of drugs that are destined to fail. Our efforts will save billions in R&D costs and will lead to better drugs in your medicine cabinet.

Brava Diagnostics, Inc.

Brava is developing a rapid, high-sensitivity troponin test for chest pain assessment. Emergency physicians need precise lab results to guide treatment or safe discharge. Results from the central lab take more than an hour and current point-of-care (POC) tests do not meet the new American College of Cardiology guidelines. Brava's evanescent planar waveguide technology enables lab-quality performance in 15 minutes using a low-cost POC instrument and high-margin consumable cartridges.

PTECH & Agilent Technologies: Workforce of the Future





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At BioMARC, we're looking into a healthy future. Our FDA-inspected GLP, cGMP, BSL2, and BSL3 facilities specialize in high-containment development for biopharmaceutical companies and government agencies in the pre-clinical, clinical, or commercial manufacturing phases. Together, we're developing tomorrow's biologics solutions and addressing the most pressing threats to human and animal well-being.

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To learn about Colorado State University innovation and available technologies, visit csuventures.org

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VICE PRESIDENT
FOR RESEARCH
COLORADO STATE UNIVERSITY



CSUVENTURES

EARLY-STAGE CAPITAL & RETENTION GRANT RECIPIENTS

Cetya Therapeutics, Inc.	Cetya was formed to develop therapies based on largazole for the treatment of cancer and hemoglobinopathies. Cetya has exclusive worldwide license to IP created by Dr. Robert Williams at CSU. Cetya is focused on its most advanced program: the treatment of hemoglobin disorders such as sickle cell disease (SCD). We have nominated a lead candidate which has been shown to outperform the market leader in SCD treatment both <i>in vitro</i> and <i>in vivo</i> with preliminary evidence of improved safety.
cliexa	cliexa is a modular digital intake and remote monitoring platform with clinical assessments, connected device data, payor claims data, and medication adherence. cliexa integration services and rules engine fully supports bi-directional EMR integration, enabling custom clinician alerts, patient notifications, and reminders to engage patients with their treatment plans while providing clinical and compliance metrics for documentation and quality reporting.
Crestone, Inc.	Crestone, Inc. is a clinical stage biopharmaceutical company focused on inventing and developing novel mechanism of action small molecule drugs for serious bacterial infections including <i>Clostridioides difficile</i> infection (CDI), resistant Gram-positive infections such as methicillin-resistant <i>Staphylococcus aureus</i> (MRSA), and vancomycin-resistant <i>Enterococcus</i> (VRE), and chronic infections such as NTM disease.
Emergy, Inc.	Emergy has developed a new form of edible protein that has three times the protein content of beef, at 60% the price of chicken, and produces 2000 times the protein per acre than soy or pea.
Exum Instruments, Inc.	Exum is developing a new scientific instrument which is capable of measuring, mapping and quantifying any element or organic compound. Further, we are making it the easiest-to-use instrument on the market, with no Ph.D. required. We are building this tool to replace the dated, time-consuming, and frustrating instruments and workflows of current instruments. We accomplish this by combining new analytical technologies with modern software design sensibilities.
Impressio, Inc.	Impressio is the first and only company to develop and market a safe helmet liner using a patented energy absorbing material and state-of-the-art additive manufacturing to 3D-print player/user-specific helmet liners to reduce concussion and protect the head. This new approach has the potential to be used for any helmet technology to improve safety (such as football, military, and bike helmets). There is a growing trend among consumers and professionals to use 3D Printing and new materials.
Momentum Optics	Momentum Optics is leveraging semiconductor processing techniques to develop an innovative manufacturing technology capable of producing optical components about 10X less expensively and 5-10X faster than traditional methods. We solve the problem of long lead-times for custom optical lenses, a pain point for many companies as they seek a first-to-market advantage in an effort to capture early market share and create brand awareness.
Neurexis Therapeutics, Inc.	Stroke and cardiac arrest affect millions of patients each year. Re-establishment of blood flow to the brain—although life-saving—does not address the substantial impact on quality of life and healthcare costs associated with the resulting neuronal death and cognitive impairment. No drugs are available, leaving a tremendous market opportunity for a product that significantly reduces damage to the brain. Neurexis is directly addressing this unmet need.
Quorum Orthopedics, Inc.	Quorum brings state-of-the-art technology and personalized service to anyone in need of prosthetic or orthotic devices to improve their mobility. With a wide range products tailored to individual needs and an all-inclusive clinic, Quorum provides patients with the maximum and highest quality mobility possible.
SafeSpout	SafeSpout is the most accurate lead test for in-home drinking water, accurately detecting total lead concentrations well below 1 part-per-billion. Spout is a subscription-based, IOT device that utilizes single-use test cartridges. It establishes consumer confidence in the water that they drink; democratizes aggregated community data; connects consumers with mitigation solutions; accelerates lead service line replacement initiatives; and supports corporate sustainability programs.
SiVEC Biotechnologies	Scientists and doctors can "cure" diseases in a test tube using nucleic acid drugs, however delivery to the patient remains a challenge and biopharma is looking for a delivery solution that works. SiVEC is offering a delivery system for nucleic acid therapeutics which provides a large therapeutic window, long-term payload stability, and tissue targeted delivery with a favorable safety profile. Potential targets are broad and include influenza, cancer, genetic disorders, and diabetes.
Skyland Analytics, Inc.	Skyland Analytics develops cloud-based data management software for drug manufacturers. Drug companies are universally reliant on paper records and spreadsheets for the management of critical data and on 3rd parties for drug development and production. The Skyland PIMS data collaboration platform enables customers to cohere paper, spreadsheet and digital data throughout the supply chain while meeting FDA guidelines for data integrity, and data visibility between drug owner and their manufacturers.
STAQ Pharma, Inc.	We are a large, highly automated, cGMP manufacturer that happens to make compounded medications in prefilled syringes for hospital procedures. We focus on the Pediatric Hospitals and their needs, but also adult hospitals where the medication use is relevant to both. We emphasize Safety, Transparency, Availability, and Quality in everything we do. We are the first in our industry to develop and deploy robotic syringe filling in compounded medications.
Transverse Medical, Inc.	Transverse Medical Inc. has developed the POINT-GUARD™ device to address the costly clinical unmet need for complete stroke protection for the patient's brain during Transcatheter Aortic Valve Replacement procedures, a \$12.5B annual market. Utilizing novel technology to create dynamic double edge sealing, the POINT-GUARD™ adapts and conforms to complex arch anatomy, making it the only true solution for Complete Cerebral Embolic Protection.

EARLY-STAGE CAPITAL & RETENTION GRANT RECIPIENTS

VitriVax	We are partnering with prominent human and animal pharmaceutical companies globally to formulate their vaccines to be thermostable, and require only a single injection
Watchmaker Genomics	Watchmaker Genomics specializes in the design, development and production of DNA- and RNA-modifying enzymes that enable high-growth applications in genomics, molecular diagnostics, and personalized medicine. Watchmaker is developing novel protein engineering and manufacturing platforms to create best-in-class, proprietary reagents for the reading, writing, and editing of DNA. The company supplies these reagents to life science, diagnostic, and clinical sequencing companies.
Xtract Medical	Xtract Medical has built and patented a disruptive technology in stroke treatment that significantly improves patient outcomes, fits with existing catheters, and simplifies the surgeon's life.

PROOF-OF-CONCEPT GRANT RECIPIENTS

UNIVERSITY TECHNOLOGY TRANSFER OFFICE	PRINCIPAL INVESTIGATOR	PROJECT TITLE
Colorado School of Mines – Office of Technology Transfer	Fred Sarazin, Ph.D.	Treatment of non-melanoma skin cancer using radioactive film therapy (RAFT)
Colorado School of Mines – Office of Technology Transfer	Terry Lowe, Ph.D.	Cost-effective manufacturing for an impact absorbing hybrid material system
Colorado State University Ventures, Inc.	Kathryn Wotman, D.V.M.	Development of a novel topical ocular immunotherapy for the treatment of viral diseases of the eye
Colorado State University Ventures, Inc.	Christian Puttlitz, Ph.D.	Direct electromagnetic coupling for diagnostic prediction of fracture healing
Colorado State University Ventures, Inc.	Garret Miyake, Ph.D.	Dihydroacridine organic photocatalysts for light-driven synthesis of medically important small molecules
Colorado State University Ventures, Inc.	Thomas Hansen, Ph.D.	Molecular marker for embryo quality and embryo transfer success
National Jewish Health – Technology Transfer Office	Michael Strong, Ph.D.	Rapid whole genome sequencing diagnostic for nontuberculous mycobacterial infections
National Jewish Health – Technology Transfer Office	Anthony Gerber, M.D., Ph.D.	Small molecule discovery to augment expression of the anti-inflammatory ubiquitin editor, A20.
National Jewish Health – Technology Transfer Office	Sanny Chan, M.D., Ph.D.	Quantifying exposure levels to dog specific allergens
National Jewish Health – Technology Transfer Office	Tasha Fingerlin, Ph.D.	Enabling comprehensive diagnosis of sub-acute infection in chronic respiratory disease via high sensitivity next generation sequencing.
University of Colorado Boulder	Christopher Lowry, Ph.D.	Lead compound discovery from environmental mycobacteria strains for treatment of PTSD
University of Colorado Boulder	Sara Sawyer, Ph.D.	Developing an inexpensive at-home test (SickStick) that will indicate whether someone has been infected with a virus or bacteria.
University of Colorado Boulder	Rafael Piestun, Ph.D.	Ultra-thin endoscope
University of Colorado Boulder	Roy Parker, Ph.D.	PARN as a target for treatment of specific categories of human cancers
University of Colorado Boulder	Xuedong Liu, Ph.D.	Programmable gectosomes for delivery of therapeutic nucleic acids and proteins
University of Colorado Boulder	Min Han, Ph.D.	Transformative treatment of anemia: using enterobactin to relieve adverse side effects caused by iron supplementation
University of Colorado Denver	Maria Valeria Canto-Soler, Ph.D.	Advanced biomaterial systems for stem cell-derived retinal transplants
University of Colorado Denver	Cem Altunbas, Ph.D.	An ultracompact CT scanner for point-of-care imaging
University of Colorado Denver	Jay Hesselberth, Ph.D.	Methods to measure functional heterogeneity among single cells
University of Colorado Denver	Tom Flaig, M.D.	Multifunctional nanoclusters for detection and treatment of bladder cancer
University of Colorado Denver	Devatha Nair, Ph.D.	Oral Biofilm disruption and selective inhibition of s.mutans biofilms
University of Colorado Denver	Kimberley Bruce, Ph.D.	LPL activators as novel therapeutics for AD
University of Colorado Denver	Maria Nagel, M.D.	Repurposing neurokinin-1 receptor antagonists to treat varicella zoster virus infection
University of Colorado Denver	Zhirui Wang, D.V.M., Ph.D.	IL2-CCR4 bispecific immunotoxin targeting cutaneous t-cell lymphoma
University of Colorado Denver	Kristine Kuhn, M.D., Ph.D.	Novel inhibitors of trimethylamine lyase for the treatment of rheumatoid arthritis
University of Colorado Denver	Cristos Ifantides, M.D., M.B.A.	iSense: A first-in-class therapy for insufficient pupil dilation



FROM CONCEPT TO COMM





COLORADO UNIVERSITIES REINVENT THE TECH TRANSFER OFFICE

WRITTEN BY JEANNE MCADARA, PH.D.

COMMERCIALIZATION:

IN our current era of bioscience entrepreneurship, it's easy to forget that until the 1980s, universities and academic inventors did not own their federally funded discoveries—the federal government did. The Bayh-Dole Act of 1980 gave universities ownership rights over promising technologies developed within their halls, as long as they agreed to file patents, pursue licensing partners, and share financial benefits with the inventors. University technology transfer offices deserve significant credit for shepherding a great many extraordinary advances in medical science, biotechnology, medical devices, and diagnostics in the decades since Bayh-Dole.

Meanwhile, foundational changes in science, business, culture, and politics have dramatically changed the way innovators commercialize their discoveries, but little in their training prepares academics for the role of entrepreneur. Colorado tech-transfer offices have co-evolved along with new commercialization models to actively support the transition

from academic researcher to company founder, and from discovery to successful commercial product.

CU INNOVATIONS: IM THERAPEUTICS

IM Therapeutics (IMT; Aurora), is one early example of this updated model. A pair of physician-scientists at the University of Colorado Anschutz Medical Campus—pediatric endocrinologist Aaron Michels, M.D. and pediatric immunologist Peter Gottlieb, M.D.—founded IMT in 2015. Using a combination of high-throughput computational modeling, rational drug design, and biological screening, the company has developed a pipeline of small-molecule drugs that inhibit specific variant of the human leukocyte antigen (HLA) associated with elevated risk of autoimmune disorders. With a lead candidate in early-stage clinical trials, IMT's goal is to produce orally available drugs to treat Type 1 (juvenile-onset) diabetes, celiac disease, and other autoimmune disorders.

“We had interesting observations in the lab and we had new and highly novel patents,” says Gottlieb. “But we had reached the limits of what we could achieve with R01 funding. The best mechanism for moving forward was going to be a Small Business Innovation Research grant.”

“We knew we had to move forward with founding a company,” adds Michels. “Sure, it was fine to cure Type 1 diabetes in mice, but we wanted to take this really great idea to patients.”

They sought help from CU’s tech transfer office, itself on the verge of a major restructuring from a system-level office into two separate entities, CU Innovations on the Anschutz Medical Campus and Venture Partners at CU Boulder. With the guidance of Steve VanNurden, now associate vice chancellor for biotechnology at Anschutz and president & CEO of Fitzsimons Innovation Community, Gottlieb and Michels were able to secure licensing, funding, and talent, and eventually start clinical-stage testing that recently enabled an Investigational New Drug (IND) application with the U.S. FDA.

“Filing that IND was a real validation of our relationship with CU Innovations,” says Gottlieb. “They came in at the right time and made the right investments. We feel like this resource really sets the University of Colorado apart from other institutions.”

Cigdem Benam, M.Sc., Ph.D., is the program manager at CU Innovations and co-director of the associated program,

SPARK Colorado. She says that, beyond providing traditional intellectual property management services, the power of CU Innovations is in bringing innovators together with business experts, entrepreneurial mentors, investors, clinical advisors, and industry partners to guide discoveries into commercially viable opportunities.

“IMT is a great example of how, with the right help, two brilliant scientists with a passion for patient care can bring an innovative idea to fruition,” says Benam.

CU Innovations’ SPARK Colorado program offers faculty opportunities for funding,

“There’s this huge innovation boom happening, and that shows the power of federally funded research to create solutions to these problems.”

mentorship, education, and advising for promising product proposals. Funded by Colorado’s Advanced Industries Accelerator Grant program, SPARK was recently selected as an NIH-funded REACH hub. Through the NIH program, CU Innovations is able to provide expanded funding as well as access to key federal partners including the FDA, the Center for Medicare and Medicaid Services, the U.S. Patent and Trade Office, companies and industry organizations, and national investor communities.

CSU VENTURES: KROMATID

The process of tech transfer and entrepreneurship at Colorado State University has also evolved dramatically

in recent decades, says Terry Opgenorth Ph.D., Vice President and Director of the CSU Ventures (CSUV) LAUNCHPAD program. Based on knowledge gained from launching more than 60 startups since 2007, CSUV established LAUNCHPAD in 2018 to help innovators objectively assess their technical readiness, and market need before choosing a commercialization strategy.

Core elements of LAUNCHPAD are the FUEL and Research to Market (R2M) programs, which provide proof-of-concept funding through AIA grants, and

put aspiring innovator-entrepreneurs through the intense process of customer and stakeholder discovery.

“Our goal is to deepen participants’ understanding of what it really takes to commercialize cutting-edge science,” says Opgenorth. “It’s not just about a great idea; it’s about proving that idea, understanding what attributes the end-user really wants and needs, and what a customer would realistically pay for it.”

CSUV has gained a great deal of practical knowledge from the experiences of some of its earliest spin-outs. For example, Opgenorth says that early partnership with the chromosomal diagnostics company KromaTiD



(R-L) Cigdem Benam, Ph.D., and SPARK Team at the National Institutes of Health



Kevin Ness, Inscripta CEO, visits the lab.

(Longmont) strongly informed CSUV's emphasis on customer discovery in its evolution from traditional tech transfer to the accelerator model.

According to CEO Chris Tompkins, Ph.D., Opgenorth was instrumental in getting the founders through the formation stage. "He served as KromaTiD's first CEO and guided the company through its first Small Business Innovation Research grant and intellectual property filings," says Tompkins. "When that started to yield results, Terry brought me in to lead the engineering development phase and get us to a commercial launch in 2016."

VENTURE PARTNERS AT CU BOULDER: INSCRIPTA

Back at the University of Colorado Boulder, the other independent entity that formed after the 2016 tech transfer office reorganization was Venture Partners. Brynmor Rees is CU

Boulder's Assistant Vice Chancellor for Research & Innovation and Managing Director. While he started his career at a large biopharmaceutical company, he was always attracted to early-stage innovation, which eventually brought him to CU.

"Universities have always been at the bleeding edge of breakthrough technologies," says Rees. "PCR, microarrays, CRISPR all came out of the university setting, but tech transfer offices have suffered from the perception of being slow or difficult to work with. We formed Venture Partners to establish a new culture at CU and ensure that companies that are ready to launch a new innovation are well resourced. Intellectual property is still a part of what we do, but we also teach researchers an entrepreneurial skill set."

One of Venture Partners' current success stories is Inscripta, Inc. (Boulder).

According to chief commercial officer Jason Gammack, Inscripta has harnessed CRISPR technology for "forward engineering" of microbial genomes, genetically nudging bacteria and yeast into producing useful chemical entities that would previously have required multi-step chemical synthesis.

"We can create a library of, say, 200,000 bacterial clones, each with a unique mutation. We screen for the desirable changes and put those strains through iterative rounds of manipulation until beneficial mutations accumulate to drive the microbe to do what we want," says Gammack. "Using our platform, customers will be able to generate highly diverse libraries without having to be experts in genetic manipulation. They just put in their target cells, push the button, and then use their core expertise to screen the output for desired phenotypes."

Rees says that Inscripta has certain built-in advantages—an aggressively attractive technology, entrepreneurially experienced faculty founder, and exceptional executive team—that make it somewhat of an outlier among Venture Partners'



Theia Labs accepts an investment from the Venture Partners at CU Boulder program.

startups. However, Venture Partners did play an essential role in ensuring that agreements with the University positioned the company to attract top talent and investment.

Rees believes that the increase in university spinouts will have a long-term effect on the composition of Colorado’s life sciences community.

“The transition from traditional tech transfer to a more entrepreneurial, accelerator model is big here in Colorado,” says Rees. “I think we’ll see more and more parts of the life sciences ecosystem in Colorado tracing their roots back to our own universities.”

Overshadowing this activity is the question of how the COVID-19 pandemic will affect the life sciences ecosystem, now and in the future. Some companies anticipate the pinch of reduced funding; others have been able to develop COVID-19 related applications and take advantage of new funding streams.

“Every week we hear about new therapeutics, new diagnostics, new vaccines, new methods for disinfection,” says Rees. “There’s this huge innovation boom happening, and that shows the power of federally funded research to create solutions to these problems.”

Clearly, the challenges and opportunities will be mixed. “We’re wondering how things will look, and concerned about the continued availability of the Advanced Industries Accelerator Grant funding

that has been so vital to the success of new commercial technologies here in Colorado,” says Opgenorth. “The economics may impact private investment and risk tolerance in ways that are hard to predict. On the flip side, this crisis is already spurring a lot of new ideas, new disclosures, and licensing of existing technologies. And there are strong reasons for the government to continue investing in health and related technologies.”

No matter what happens, organizations like CSUV, CU Innovations, and Venture Partners at CU Boulder will continue to be essential conduits connecting academic researchers to the life sciences ecosystem.

“Many of our faculty inventors never dreamed they would found a company as a result of their academic research,” says Opgenorth, “But they are doing it—building companies to tackle many of today’s greatest problems, from agricultural initiatives and climate change to the most pressing needs in human and animal health.”



STARTUP SUCCESS

CSU VENTURES

- 57 new startups in last 10 years, 30 in life sciences
- \$57 million raised in SBIR/STTR funding since 2009

VENTURE PARTNERS AT CU BOULDER

- 15 new startups in last fiscal year
- \$618 million in funding for spinout companies since 2018

CU INNOVATIONS

- 24 new spinouts in last three years
- \$90.8 million raised

INVESTMENTS IN INNOVATION

COLORADO SCHOOL OF MINES

Mines established the Center for Entrepreneurship and Innovation which collaborates with the Office of Technology Transfer to develop faculty entrepreneurs. In 2022, it will open two new buildings, an Innovation Hub and Venture Center.

UNIVERSITY OF COLORADO BIOFRONTIERS INSTITUTE

Researchers from the life sciences, physical sciences, computer science and engineering work together to uncover new knowledge at the frontiers of science and partner with industry to transform their discoveries into new tools.



Contributing to Society through Healthcare

Through the technologies we provide and partnerships we forge, we unlock the potential of blood and cellular therapies to ultimately enable better lives for patients throughout the world. [TERUMOBCT.COM](https://www.terumobct.com)



BOETTCHER FOUNDATION

INVESTS IN PROMISING BIOMEDICAL RESEARCHERS

WRITTEN BY CURTIS L. ESQUIBEL

WEBB-WARING BIOMEDICAL RESEARCH AWARDS



Andra Dingman, M.D., was named a 2020 Boettcher investigator to support her research that studies the cognitive effects of neo-natal strokes in children.

For Colorado to be a leader in biomedical innovation, our state's most dynamic scientific minds need to be supported in the early stages of their work and careers.

This is the theory behind the Boettcher Foundation's Webb-Waring Biomedical Research Awards, which supports early career investigators at the cutting edge of their fields. In the spring of 2020, the Foundation named eight investigators, bringing the total researchers awarded to 76 dating back to 2010.

"The Boettcher award was really a lifeline," said Andra Dingman, a 2020 investigator who specializes in neonatal neurology. "Any amount of success in science comes down to mentorship and career support, and this research grant offers huge support. It couldn't have come at a better time."

The support will help Dingman, an assistant professor in the department of pediatrics at the University of Colorado Anschutz Medical Campus, continue her life's work to research the cognitive effects of neo-natal strokes in children. Her goal is to help identify possible therapeutic targets to improve memory and learning.

The Webb-Waring award, which provides \$235,000 to Dingman and other investigators for up to three years, allows the recipients to be more competitive for major federal and private awards.

Dan Regan, a 2020 Webb-Waring recipient and assistant professor of microbiology, immunology, and pathology at Colorado State University, said the Boettcher award has given him visibility as an investigator and the ability to leverage his research.

A veterinarian, Regan took a chance in his proposal in taking a comparative oncology approach – the study of naturally occurring cancers in animals, specifically spontaneous tumors in dogs, to help understand cancer in people.

"I felt like the concept was innovative, novel, and had significant translational potential," Regan said. "We were hopeful that someone could latch onto it the way we believe in it."

Since 2010, Boettcher Investigators have gone on to earn more than \$80 million in subsequent independent research funding. This rings true for both Dingman and Regan, each of whom have received major research funding around the same time they received the Webb-Waring awards.

More than 95 percent of the Webb-Waring recipients remain at Colorado research institutions.

This aligns with the foundation's mission to keep Colorado talent home, what Boettcher Foundation President & CEO Katie Kramer describes as the promise of Colorado.

"This class of Boettcher investigators represent the example of innovation in bioscience research that aims to deepen our knowledge of human health issues," Kramer said. "We are proud to support their expert work."

COVID INNOVATION FUND

Rapid response isn't typically a concept the philanthropic world associates with research funding. But COVID-19 changed that thinking for the Boettcher Foundation this past spring.

Faced with an opportunity to further invest in biomedical research, something the foundation has supported since the 1940s, the organization's Trustees launched a rapid response RFP targeting the state's pandemic investigators.

Within six weeks, the foundation funded nearly \$1 million in support of six projects at Colorado's top research hospitals and universities.

The grantees are all leading experts in existing research efforts around COVID-19, with a collective emphasis on studying research factors, treatment, testing, and vaccines.

"We could not be prouder to support these efforts at a time when biomedical research is a public health priority for response, treatment, and future pandemic prevention," said Boettcher Foundation President and CEO Katie Kramer.

The foundation received more than 120 applications during the 10-days the RFP was open. The winning proposals came from Colorado State University, University of Colorado Anschutz Medical Campus, National Jewish Health, and University of Colorado Boulder, and included several partnerships.

One of those winning partnerships, CU Boulder researchers and a spinoff company, VitriVax Inc., are working to build the next generation of a system that produces 10,000 to 100,000 doses of COVID-19 vaccines per run that would be ready for human trials in the next year.

"It has to be a solution that is suitable for the entire world," Theodore Randolph told CU Boulder Today in June. Randolph is a professor in the Department of Chemical and Biological Engineering and co-director of the Center for Pharmaceutical Biotechnology.

"If we're going to have a drug that makes it out to the market, it has to have a shelf life that's long enough so that it can be made, transported and stored at a hospital and the pharmacy, and eventually delivered to the patient. And that turns out to be two years," Randolph said.

THE 2020 CLASS OF BOETTCHER INVESTIGATORS AND THEIR RESEARCH TOPICS ARE:

COLORADO COLLEGE



Jennifer F. Garcia, Ph.D., *Assistant Professor of Molecular Biology* – RNA degradation and autophagy

COLORADO STATE UNIVERSITY



Daniel Regan, D.V.M., Ph.D., *Assistant Professor of Cancer Pathology* – Tumor microenvironment modulation of metastasis and anti-cancer drug response

NATIONAL JEWISH HEALTH



James Scott-Browne, Ph.D., *Assistant Professor of Biomedical Research* – Transcriptional control of T-cell function

UNIVERSITY OF COLORADO ANSCHUTZ MEDICAL CAMPUS



Petter Bjornstad, M.D., *Assistant Professor of Pediatrics and Medicine* – Mechanisms underlying early diabetic kidney disease



Suet Nee Chen Ph.D., *Assistant Professor of Medicine, Cardiology Division* – Molecular genetics and pathogenesis of inherited cardiomyopathies



Andra Lee Dingman, M.D., *Department of Pediatrics, Division of Child Neurology* – Chronic changes in brain plasticity after neonatal stroke



Sridharan Raghavan, M.D., Ph.D., *Assistant Professor of Medicine* – Understanding genetic and non-genetic contributors to diabetes risk

UNIVERSITY OF COLORADO BOULDER

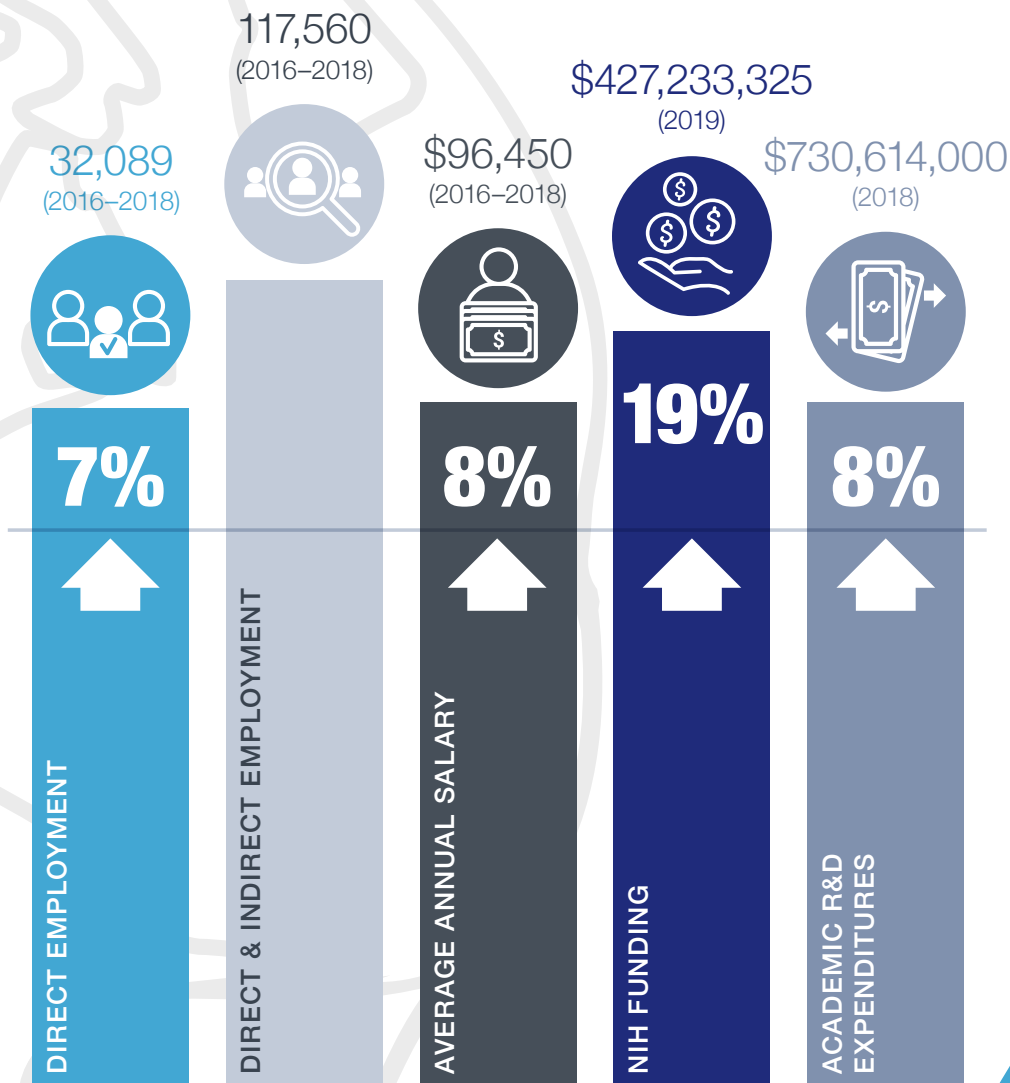


Justin Brumbaugh, Ph.D., *Assistant Professor of Molecular, Cellular, and Developmental Biology* – Post-transcriptional regulation and stem cell biology

For more information about the Webb-Waring Biomedical Research Awards, visit the [Boettcher Foundation website](#).

COLORADO EMPLOYMENT DATA

KEY LIFE SCIENCES NUMBERS



Source: Investment, Innovation and Job Creation in a Growing U.S. Bioscience Industry Economy/BIO

Colorado's life sciences ecosystem is an economic driver for Colorado. We contribute significantly to the state's growth. The high-paying jobs our community creates allow innovators to make a difference.

Colorado BioScience Association member companies and organizations drive global health innovations that improve and save lives around the world, including work to detect, treat, and prevent COVID-19.

We continue to see steady growth in employment, salaries, and funding for life sciences in Colorado.

2020

DEVICE APPROVALS

(LIMITED TO 510K & PMAS)

2018 APPROVALS

PMA 0 | 510K 26

2019 APPROVALS

PMA 0 | 510K 34

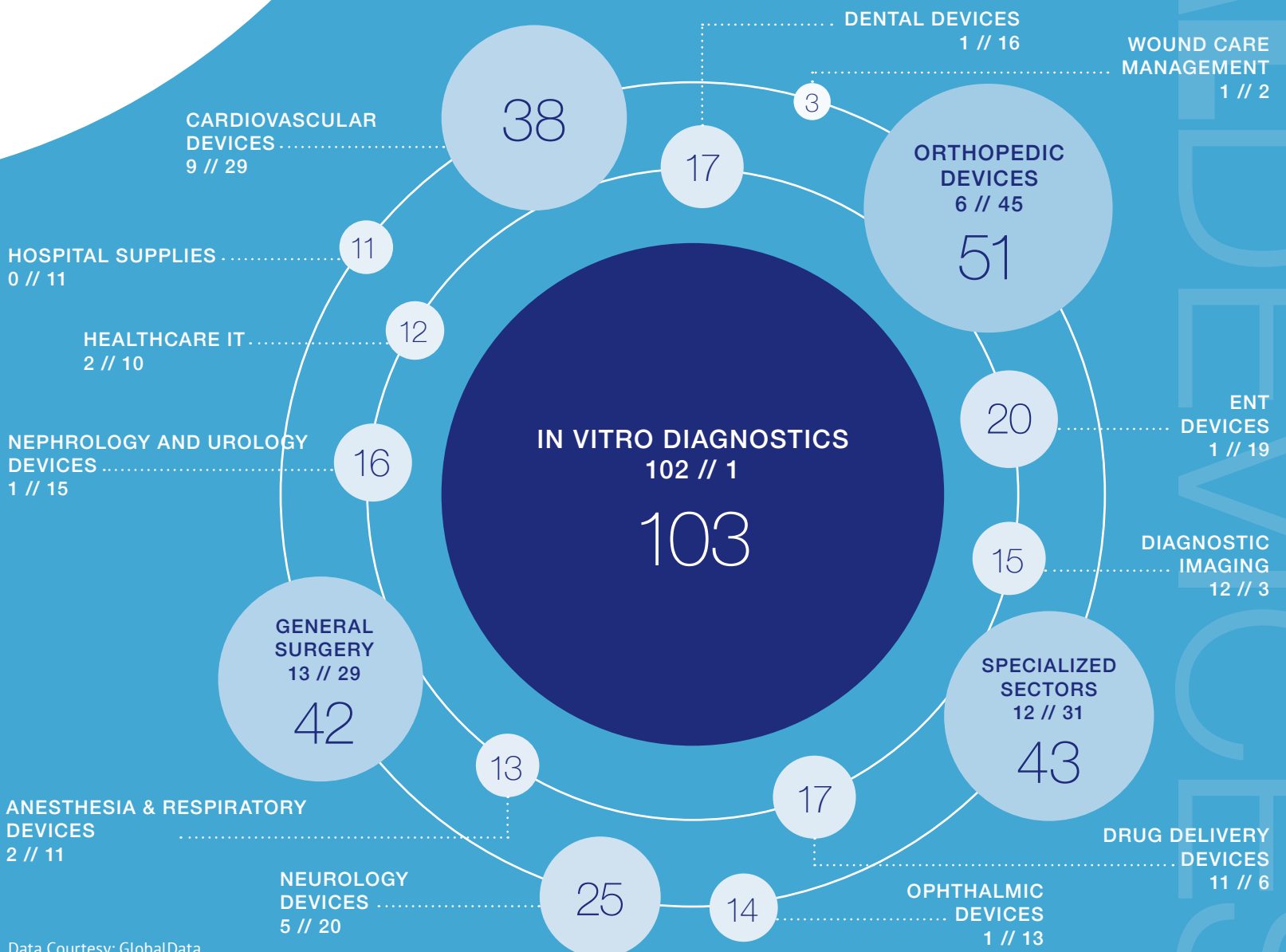
ALL APPROVALS

PMA 5 | 510K 256

COLORADO DEVELOPS CLINICAL ASSETS TO SAVE AND CHANGE LIVES AROUND THE WORLD

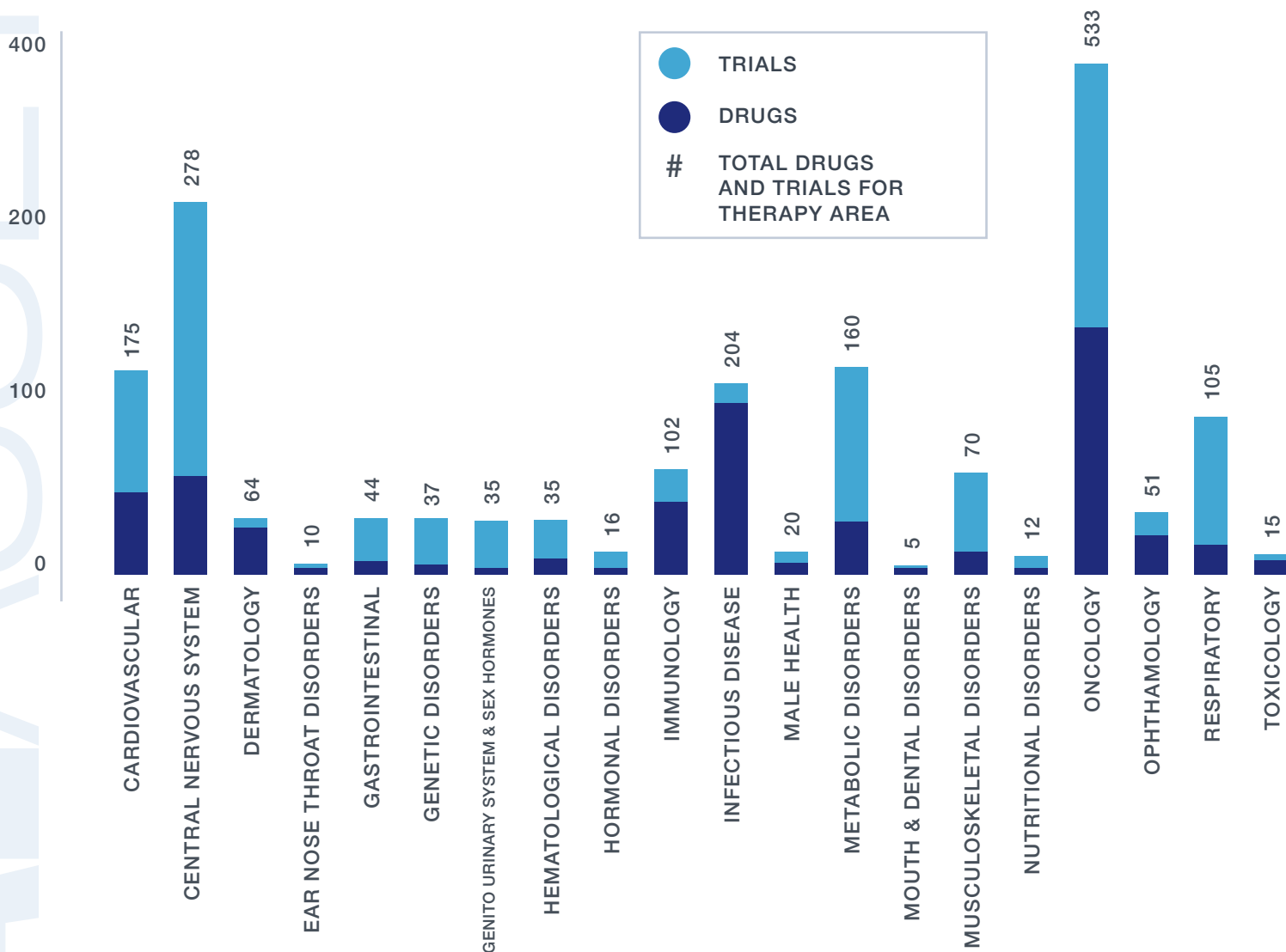
DEVICES BY MEDICAL SPECIALTY

INVESTIGATIONAL // APPROVED



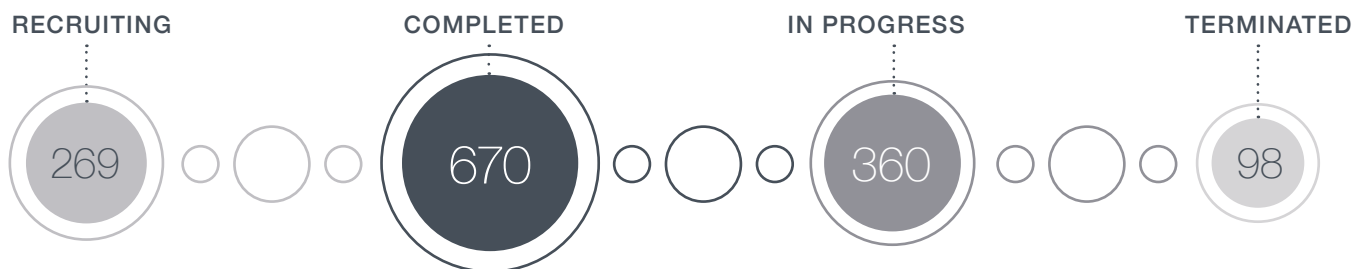
Data Courtesy: GlobalData

DRUGS AND TRIALS BY THERAPY AREA

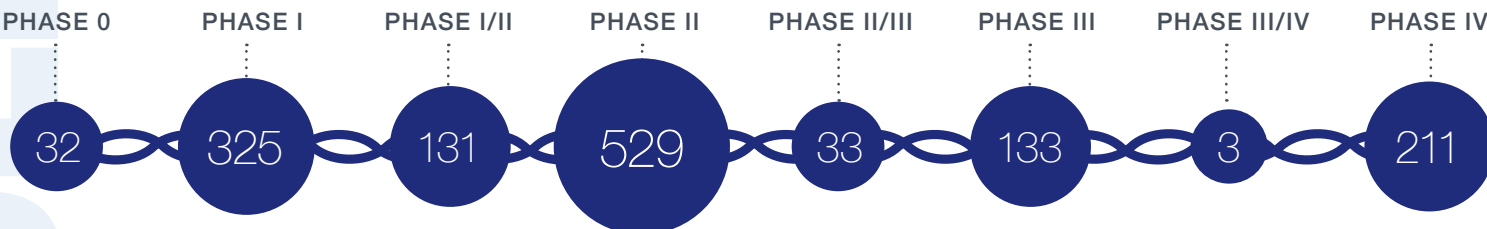


CLINICAL TRIAL STATUS AND PHASE

TRIAL STATUS



DRUG PHASE



COLORADO BY THE NUMBERS: FINANCINGS

COMPANY	INVESTOR	VALUE (US\$ M)	DEAL TYPE	ANNOUNCED	INDUSTRY
Ablacon, Inc.	Western Technology Investment	12.00	Venture Financing	23-Jul-2019	Medical Device
	Ajax Health	21.50	Venture Financing	30-Apr-2019	Medical Device
Aftx, Inc.	Undisclosed	1.42	Venture Financing	17-Apr-2019	Medical Device
Aletheia Therapeutics Corp	Undisclosed	0.17	Venture Financing	11-Mar-2019	Pharma
Ampio Pharmaceuticals, Inc.	Undisclosed	12.00	Equity Offerings	14-Jun-2019	Pharma
	Undisclosed	0.14	Equity Offerings	12-Apr-2019	Pharma
ARCA Biopharma, Inc.	Undisclosed	1.03	Equity Offerings	20-May-2019	Pharma
	Undisclosed	2.50	Equity Offerings	25-Jan-2019	Pharma
	Undisclosed	1.03	Equity Offerings	20-May-2019	Pharma
	Undisclosed	2.40	Equity Offerings	11-Mar-2019	Pharma
	Undisclosed	2.50	Equity Offerings	25-Jan-2019	Pharma
ArcherDX, Inc.	PBM Capital Group, LLC	55.00	Venture Financing	17-Dec-2019	Medical Device
	ArrowMark Partners		Venture Financing	17-Dec-2019	Medical Device
	Redmile Group, LLC		Venture Financing	17-Dec-2019	Medical Device
	Boulder Ventures, Ltd.		Venture Financing	17-Dec-2019	Medical Device
	Sands Capital Management, LLC		Venture Financing	17-Dec-2019	Medical Device
	Longwood Fund Management, LLC		Venture Financing	17-Dec-2019	Medical Device
	Perceptive Advisors, LLC		Venture Financing	17-Dec-2019	Medical Device
	Soleus Capital Management, LP		Venture Financing	17-Dec-2019	Medical Device
	Undisclosed		Venture Financing	17-Dec-2019	Medical Device
	Driehaus Capital Management, LLC		Venture Financing	17-Dec-2019	Medical Device
	Longwood Fund Management, LLC	60.00	Venture Financing	15-May-2019	Medical Device
	Boulder Ventures, Ltd.		Venture Financing	15-May-2019	Medical Device
	PBM Capital Group, LLC		Venture Financing	15-May-2019	Medical Device
	Perceptive Advisors, LLC		Venture Financing	15-May-2019	Medical Device
Peierls Foundation, Inc.		Venture Financing	15-May-2019	Medical Device	
Array BioPharma, Inc.	Pfizer	11400.00	Acquisition	10-Oct-2019	Pharma
	Undisclosed	150.00	Equity Offerings	07-May-2019	Pharma
Asius Technologies, LLC	Undisclosed	1.00	Venture Financing	23-May-2019	Medical Device
Aspero Medical, Inc.	Innosphere Fund		Venture Financing	04-Sep-2019	Medical Device
Aytu BioScience, Inc.	Armistice Capital, LLC	10.00	Equity Offerings	14-Oct-2019	Pharma
	Altium Capital Limited		Equity Offerings	14-Oct-2019	Pharma
	Altium Capital Limited	10.00	Equity Offerings	14-Oct-2019	Pharma
	Armistice Capital, LLC		Equity Offerings	14-Oct-2019	Pharma
Azurity /Silvergate Pharmaceuticals	Undisclosed		Acquisition	12-Jun-2019	Pharma
Biodesix, Inc.	Undisclosed	4.90	Venture Financing	08-Aug-2019	Medical Device
BioPlx, Inc.	Undisclosed	1.63	Venture Financing	11-Jun-2019	Pharma
Bolder Surgical, LLC	River Cities Capital Funds	27.00	Venture Financing	16-Jan-2019	Medical Device
	Undisclosed Investor(s)		Venture Financing	16-Jan-2019	Medical Device
	Westwood Management Corp.		Venture Financing	16-Jan-2019	Medical Device
	Providence Ventures		Venture Financing	16-Jan-2019	Medical Device
Brava Diagnostics	Undisclosed	0.25	Venture Financing	29-Aug-2019	Medical Device

FINANCINGS (CONT.)

COMPANY	INVESTOR	VALUE (US\$ M)	DEAL TYPE	ANNOUNCED	INDUSTRY
Bravrr, Inc.	Undisclosed Investor(s)	0.28	Venture Financing	01-May-2019	Medical Device
	HAX Accelerator		Venture Financing	01-May-2019	Medical Device
Brickell Biotech, Inc.	Vical	66.00	Merger	03-Mar-2019	Pharma
	ovaQuest		Merger	03-Mar-2019	Pharma
CardioNXT, Inc.	Undisclosed	3.00	Venture Financing	22-Mar-2019	Medical Device
Cerebral Therapeutics, Inc.	Granite Point Capital Management, LP	7.80	Venture Financing	08-Mar-2019	Medical Device
	Vivo Capital, LLC		Venture Financing	08-Mar-2019	Medical Device
	Granite Point Capital Management, LP	7.80	Venture Financing	08-Mar-2019	Pharma
	Vivo Capital, LLC		Venture Financing	08-Mar-2019	Pharma
Certa Dose, Inc.	Undisclosed	0.48	Venture Financing	14-Mar-2019	Medical Device
Cipher Skin, Inc.	Undisclosed	1.20	Venture Financing	05-Jun-2019	Digital Health
	South Oak Capital Partners		Venture Financing	05-Jun-2019	Digital Health
	LSVBR Partners		Venture Financing	05-Jun-2019	Digital Health
Clovis Oncology, Inc.	Undisclosed	250.00	Equity Offerings	16-Dec-2019	Pharma
	Undisclosed	263.00	Debt Offerings	07-Aug-2019	Pharma
	Undisclosed	263.00	Debt Offerings	07-Aug-2019	Pharma
	Undisclosed	21.12	Equity Offerings	02-Jul-2019	Pharma
DMC Biotechnologies, Inc.	Breakthrough Energy Ventures, LLC	10.30	Venture Financing	09-Jul-2019	Pharma
	Sofinnova Partners SAS		Venture Financing	09-Jul-2019	Pharma
	Capricorn Venture Partners NV		Venture Financing	09-Jul-2019	Pharma
	Undisclosed	1.37	Venture Financing	15-Mar-2019	Pharma
Edgewise Therapeutics	USVP Management Company, LLC	50.00	Venture Financing	17-Sep-2019	Pharma
	CureDuchenne Ventures, LLC		Venture Financing	17-Sep-2019	Pharma
	Deerfield Management Company, LP		Venture Financing	17-Sep-2019	Pharma
	New Leaf Venture Partners, LLC		Venture Financing	17-Sep-2019	Pharma
	Novo Holdings AS		Venture Financing	17-Sep-2019	Pharma
	Orbimed Advisors, LLC		Venture Financing	17-Sep-2019	Pharma
EIR, Inc	AngelMD Management, LLC	0.50	Venture Financing	04-Jul-2019	Medical Device
Evolutionary Genomics, Inc.	Undisclosed	0.49	Equity Offerings	15-May-2019	Pharma
Fusion Robotics, LLC	Alex Lukianov		Venture Financing	25-Jun-2019	Medical Device
	Kevin Foley		Venture Financing	25-Jun-2019	Medical Device
ImmunoMolecular Therapeutics, LLC	CU Healthcare Innovation Fund	10.00	Venture Financing	09-Oct-2019	Pharma
	Morningside Ventures		Venture Financing	09-Oct-2019	Pharma
	JDRF T1D Fund		Venture Financing	09-Oct-2019	Pharma
	Undisclosed	3.00	Venture Financing	04-Jun-2019	Pharma
InDevR, Inc.	Adjuvant Capital	7.00	Venture Financing	10-Sep-2019	Pharma
	Adjuvant Capital	7.00	Venture Financing	10-Sep-2019	Pharma
Inscripta, Inc.	Paladin Capital Group	125.00	Venture Financing	10-Dec-2019	Pharma
	NanoDimension Management Limited		Venture Financing	10-Dec-2019	Pharma
	Merieux Developpement		Venture Financing	10-Dec-2019	Pharma
	Oak HC/FT Partners, LLC		Venture Financing	10-Dec-2019	Pharma
	JS Capital Management, LLC		Venture Financing	10-Dec-2019	Pharma
	Venrock Inc		Venture Financing	10-Dec-2019	Pharma
	MLS Capital Fund II		Venture Financing	10-Dec-2019	Pharma

COMPANY	INVESTOR	VALUE (US\$ M)	DEAL TYPE	ANNOUNCED	INDUSTRY
	Foresite Capital Management, LLC		Venture Financing	10-Dec-2019	Pharma
	MLS Capital Fund II	20.00	Venture Financing	04-Apr-2019	Pharma
	NanoDimension Management Limited		Venture Financing	04-Apr-2019	Pharma
	Merieux Developpement		Venture Financing	04-Apr-2019	Pharma
	Paladin Capital Group		Venture Financing	04-Apr-2019	Pharma
	Foresite Capital Management, LLC		Venture Financing	04-Apr-2019	Pharma
	Venrock Healthcare Capital Partners, LP		Venture Financing	04-Apr-2019	Pharma
	Undisclosed	25.65	Venture Financing	04-Jan-2019	Pharma
KromaTiD, Inc.	First Capital Ventures, LLC	2.00	Venture Financing	15-Feb-2019	Pharma
	Undisclosed	0.85	Venture Financing	15-Feb-2019	Pharma
	Undisclosed	0.85	Venture Financing	15-Feb-2019	Pharma
	First Capital Ventures, LLC	2.00	Venture Financing	15-Feb-2019	Pharma
Mesa Laboratories, Inc.	Undisclosed	172.50	Debt Offerings	06-Aug-2019	Medical Device
	Undisclosed	90.60	Equity Offerings	06-Aug-2019	Medical Device
	Undisclosed	90.60	Equity Offerings	06-Aug-2019	Medical Device
	Undisclosed	172.50	Debt Offerings	06-Aug-2019	Medical Device
miRagen Therapeutics, Inc.	Undisclosed	0.50	Equity Offerings	31-Oct-2019	Pharma
	Undisclosed	0.50	Equity Offerings	31-Oct-2019	Pharma
MuscleSound, LLC	Undisclosed	0.75	Venture Financing	18-Sep-2019	Medical Device
	Undisclosed	0.75	Venture Financing	18-Sep-2019	Medical Device
Neuraptive Therapeutics, Inc.	Ben Franklin Technology Partners		Venture Financing	25-Jul-2019	Pharma
OnKure, Inc.	Undisclosed	0.10	Venture Financing	20-Sep-2019	Pharma
OptioSurgical, Inc.	Next Frontier Capital	3.30	Venture Financing	26-Jun-2019	Digital Health
PanTheryx, Inc.	Perceptive Advisors, LLC	50.00	Private Equity	26-Jun-2019	Pharma
Prima-Temp, Inc.	Richter Gedeon Nyrt	5.00	Venture Financing	25-Mar-2019	Medical Device
RxREVU, Inc.	Froedtert Health	15.90	Venture Financing	05-Jun-2019	Digital Health
	Children's Hospital Colorado		Venture Financing	05-Jun-2019	Digital Health
	Presbyterian Healthcare Services		Venture Financing	05-Jun-2019	Digital Health
	Undisclosed		Venture Financing	05-Jun-2019	Digital Health
	Jazz Venture Partners, LLC		Venture Financing	05-Jun-2019	Digital Health
	Ventures Group		Venture Financing	05-Jun-2019	Digital Health
	University of Virginia Licensing		Venture Financing	05-Jun-2019	Digital Health
	Iowa Health System		Venture Financing	05-Jun-2019	Digital Health
	UC Health		Venture Financing	05-Jun-2019	Digital Health
Snoasis Medical, Inc.	Undisclosed	0.05	Venture Financing	09-Apr-2019	Medical Device
Taiga Biotechnologies, Inc.	Undisclosed	3.00	Venture Financing	31-May-2019	Pharma
Transverse Medical, Inc.	Undisclosed	0.14	Venture Financing	06-Nov-2019	Medical Device
Triple Endoscopy, Inc.	Undisclosed	1.95	Venture Financing	06-Dec-2019	Medical Device
Vaporox, Inc.	Undisclosed	0.47	Venture Financing	25-Mar-2019	Medical Device
Viveve Medical, Inc.	Undisclosed	10.00	Equity Offerings	22-Nov-2019	Medical Device
	Undisclosed	8.00	Equity Offerings	05-Sep-2019	Medical Device

2019 NATIONAL INSTITUTES OF HEALTH GRANTS

ORGANIZATION	AWARDS	FUNDING
3 I	1	\$394,260.00
ACCESS SENSOR TECHNOLOGIES, LLC	2	\$704,676.00
AEROSOL DEVICES, INC.	1	\$279,307.00
ALLANDER BIOTECHNOLOGIES, LLC	1	\$715,021.00
AMERICAN ASSOCIATION OF NEUROPATHOLOGISTS, INC.	1	\$48,950.00
AMIDEBIO, LLC	1	\$740,140.00
BIOCOLLECTIVE, LLC	1	\$146,719.00
BIOLOGICAL SCIENCES CURRICULUM STUDY	1	\$258,426.00
BIOMIMETIX JV, LLC	1	\$247,352.00
BOLDER BIOTECHNOLOGY, INC.	1	\$300,000.00
BOULDER COUNTY PUBLIC HEALTH DEPARTMENT	1	\$70,000.00
BOULDER NONLINEAR SYSTEMS, INC.	1	\$640,783.00
CETYA THERAPEUTICS, INC.	1	\$499,220.00
CHI INSTITUTE FOR RESEARCH & INNOVATION	1	\$1,123,588.00
CLEARLIGHT, LLC	1	\$499,999.00
COLORADO ALPHAHERPESVIRUS LATENCY SOCIETY	1	\$45,000.00
COLORADO CANCER RESEARCH PROGRAM, INC.	1	\$999,331.00
COLORADO RESEARCH PARTNERS, LLC	2	\$1,500,277.00
COLORADO SCHOOL OF MINES	5	\$1,465,003.00
COLORADO STATE DEPARTMENT/AGRICULTURE	2	\$632,994.00

**NO ONE CAN SOLVE THE
WORLD'S HEALTHCARE
CHALLENGES ALONE.**

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Further, Together.**

At Medtronic, we're partnering with those who share the belief that by working tirelessly together, we can find a better way to **improve the quality of care for everyone.**

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Further, Together

ORGANIZATION	AWARDS	FUNDING
COLORADO STATE DEPT/PUB HLTH & ENVIRONMT	8	\$1,772,632.00
COLORADO STATE UNIVERSITY	124	\$38,970,982.00
CRESTONE, INC.	2	\$3,521,514.00
DATA2CARE TECHNOLOGIES, LLC	1	\$145,682.00
DENVER HEALTH AND HOSPITAL AUTHORITY	9	\$4,110,869.00
DENVER MUSEUM OF NATURE AND SCIENCE	1	\$250,756.00
DENVER RESEARCH INSTITUTE	1	\$90,600.00
DREAM FACE TECHNOLOGIES, LLC	2	\$1,131,150.00
FIELDLINE, INC.	1	\$443,350.00
FISCHER IMAGING, INC.	2	\$301,651.00
FORT LEWIS COLLEGE	1	\$248,522.00
GREFFEX, INC.	1	\$2,795,999.00
KEYSTONE SYMPOSIA	42	\$532,600.00
KLEIN BUENDEL, INC.	9	\$4,627,023.00
KROMATID, INC.	1	\$700,550.00
LOHOCLA RESEARCH CORPORATION	3	\$4,801,138.00
LUDLUM MEASUREMENTS, INC.	1	\$499,364.00
MBIO DIAGNOSTICS, INC.	1	\$471,444.00
MEADOWLARK OPTICS, INC.	1	\$553,268.00
MENOGENIX, INC.	1	\$194,836.00
MESA COUNTY HEALTH DEPARTMENT	1	\$69,776.00
METROPOLITAN STATE UNIVERSITY OF DENVER	1	\$388,762.00
NATIONAL ENVIRONMENTAL HEALTH ASSN	2	\$1,022,750.00
NATIONAL JEWISH HEALTH	82	\$50,777,592.00
NATIVE AMERICAN CANCER INITIATIVES, INC.	1	\$486,958.00
NEW IRIDIUM	1	\$224,932.00
OP-T-MUNE, INC.	2	\$1,594,177.00
PNEUMAX, LLC	1	\$223,426.00
POINT DESIGNS, LLC	1	\$224,150.00
PUEBLO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT	1	\$70,000.00
QALIBREMD, INC.	1	\$843,717.00
RADIASOFT, LLC	1	\$300,000.00
REGIS UNIVERSITY	1	\$96,034.00
ROCKY MOUNTAIN VIROLOGY ASSOCIATION	1	\$8,500.00
STEADMAN PHILIPPON RESEARCH INSTITUTE	2	\$376,304.00
SUVICA, INC.	1	\$1,999,989.00
TDA RESEARCH, INC.	2	\$737,366.00
TOPOGEN, INC.	1	\$256,100.00
UNIVERSITY OF COLORADO	157	\$51,732,181.00
UNIVERSITY OF COLORADO AT COLORADO SPGS	1	\$385,165.00
UNIVERSITY OF COLORADO DENVER	768	\$276,236,758.00
UNIVERSITY OF DENVER (COLORADO SEMINARY)	18	\$8,664,042.00
VA EASTERN COLORADO HEALTH CARE SYSTEM	57	\$0.00
VETDC, INC.	1	\$150,000.00
VITAN-BIOTECH, LLC	1	\$149,938.00
Z BIOTECH, LLC	1	\$571,833.00
GRAND TOTAL	1346	\$475,065,426.00

Source: National Institutes of Health



Our facilities in Louisville and Boulder leverage their extensive analytical expertise to support our clients from characterization through method development, all the way to regulatory filings.

COLORADO OVERALL SERVICES:

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- Process & Analytical Development
- Particle Characterization Core
- Analytical, Formulation, Stability Services
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■ The Brava™ COVID-19 Antibody Panel is a quantitative high-performance, 5-minute test.

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■ These multiplex panels measure biomarkers that appear early in acute infections and assess the cytokine storm associated with bad outcomes of sepsis and COVID-19.

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■ The Brava hs-cTnI Test is a NextGen blood test for heart attack. This high-sensitivity troponin assay will enable faster diagnosis or rule-out/discharge of low-risk patients. Safe discharge reduces unnecessary admissions and reduces costs to the healthcare system.



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*Take away
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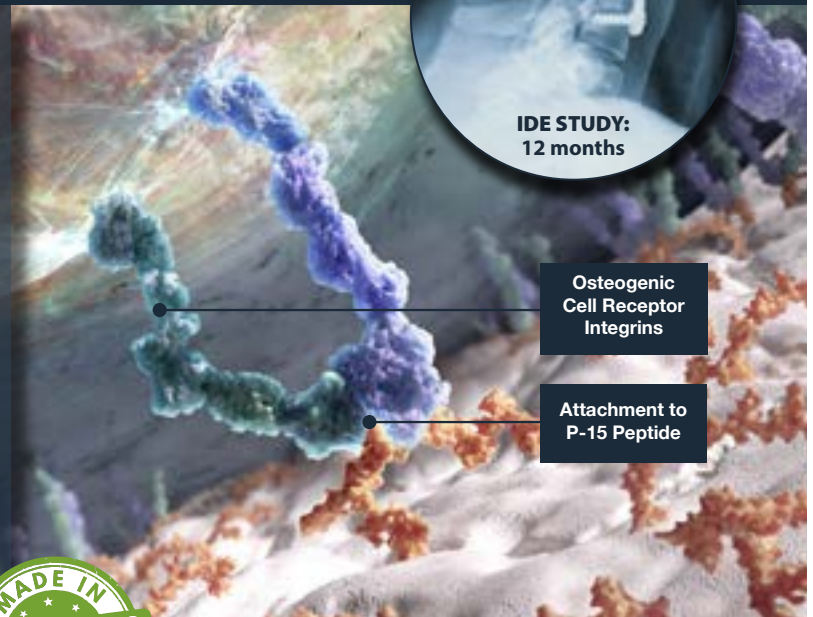
Powered by P-15 Osteogenic Cell Binding Peptide

Cerapedics is an advanced orthobiologics company focused on developing and commercializing its proprietary small peptide (P-15) technology platform.

i-FACTOR Peptide Enhanced Bone Graft is the only biologic bone graft in orthopedics that incorporates a small peptide as an attachment factor to stimulate the natural bone healing process. This novel mechanism of action is designed to support safer and more predictable bone formation compared to commercially available bone growth factors.

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Indication for use: i-FACTOR Peptide Enhanced Bone Graft is indicated for use in skeletally mature patients for reconstruction of a degenerated cervical disc at one level from C3-C4 to C6-C7 following single level discectomy for intractable radiculopathy (arm pain and/or a neurological deficit), with or without neck pain, or myelopathy due to a single-level abnormality localized to the disc space, and corresponding to at least one of the following conditions confirmed by radiographic imaging (CT, MRI, X-rays): herniated nucleus pulposus, spondylosis (defined by the presence of osteophytes), and/or visible loss of disc height as compared to adjacent levels, after failure of at least 6 weeks of conservative treatment. i-FACTOR Peptide Enhanced Bone Graft must be used inside an allograft bone ring and with supplemental anterior plate fixation.



**IDE STUDY:
12 months**

**Osteogenic
Cell Receptor
Integrins**

**Attachment to
P-15 Peptide**



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57 Ag Bio and Animal Health

59 Digital Health

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Parker
www.lumiwave.com

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- C BIODESIX, INC.**
Boulder
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- BIOMATERIAL DEVICE INNOVATIONS, LLC**
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www.biomaterialdevices.com
The company is focused upon commercialization of implantable bioresorbable medical devices based upon proprietary technology.
- BIOVISION TECHNOLOGIES**
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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.
- C BLANKENSHIP RESEARCH**
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Applies evidence-based genetic information to develop personalized products that help individuals achieve their health goals.
- C BOLDER SURGICAL**
Louisville
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Developing precisely designed surgical instruments that allow access to confined spaces and often delicate structures.
- BOULDER INNOVATION GROUP**
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- C BOULDER IQ**
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- CARDIONXT**
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- CARE ELECTRONICS, INC.**
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- CAR-MAY, LLC**
Berthoud
www.car-may.com
Provides pumping capability, fluid measurement, and flow control all in one compact module.
- C CERAPEDICS**
Westminster
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- 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.
- CLEAN ROOM DEVICES, LLC**
Westminster
www.cleanroomdevices.com
The company offers full clinical chemistry and Pharmacogenetic testing.
- C CLEARIGHT**
Aurora
www.clearsightiol.com
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.
- 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.

CONMED CORPORATION

Greenwood Village

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.

CORELOGIX MEDICAL

Highlands Ranch

www.corelogixmedical.com

CoreLogix Medical™ was formed to develop and bring to market an innovative bone graft technology specifically for sternal healing and fusion. Our solution is a patent-pending, life-changing technology that addresses sternal healing complications and exorbitant healthcare costs.

C CORGENIX MEDICAL CORPORATION

Broomfield

www.corgenix.com

Corgenix has 30 years as an FDA registered IVD manufacturer. We are a CRO/CMO that provides IVD manufacturing, R&D services as well as clinical and analytical testing services in our on-site CAP accredited, CLIA certified laboratory for our drug development and biomarker discovery partners. Our Regulatory expertise has brought over 50 assays to market in domestic and international jurisdictions. Our robust Quality management system is complimented by our 30 year history of project management success and

transparent communication style. Corgenix is certified to MDSAP and ISO 13485:2016. Corgenix has offices in Denver CO and Tokyo Japan, and is part of the ORGENTEC Group based in Mainz Germany

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

Golden

www.cuattro.com

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

DARWIN AMERICAN LABS

Aurora

darwinamericanlabs.com

Darwin American Labs is a Biosciences Research Group specializing in private research for academic and applied commercial solutions. We work with biotechnology, pharmaceutical and medical device companies to solve problems through experimental validation studies.

DARWIN BIOSCIENCES

Boulder

darwin.bio

Darwin Biosciences is developing testing to aid in the infection disease detection process. We specialize in identifying people who are asymptomatic or pre-symptomatic for common infectious diseases.

DATAWAVE TECHNOLOGIES CORP.

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.eyeprosthesis.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 CORP.

Centennial

www.dntlworks.com

Manufactures portable, mobile and self-contained dental systems.

DOUBLE BLACK IMAGING

Westminster

doubleblackimaging.com

Manufactures clinical review monitors that are specially designed for versatile clinical healthcare applications.

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.

EAG LABORATORIES

Fort Collins

www.eag.com

Formerly known as Pernicka Corporation, this EAG location in Fort Collins, has supported the defense, aerospace and medical device industries since its founding in 1973. The laboratory is a leader in internal gas composition analysis (frequently denoted as RGA) and Cumulative Helium Leak Detection (CHLD) services for ensuring reliability of critical components in military and aerospace technology.

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

elevenp15.com

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

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.encion.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

www.endoshape.com

Manufactures surgical and medical instruments focusing on shape memory polymer devices for endoluminal application.

ENLIGHTENVUE

Denver

www.enlightenvue.com

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

C EVERGREEN RESEARCH, INC.

Golden

www.evergreenresearch.com

Your "One-Stop-Shop" for medical device designs, approvals & manufacturing. Software, electronics, mechanics, fluidics, optics, ultrasound, RF and sterile disposables. Products for surgery, ICU, ER, EMS, OTS, clinic and home healthcare products. Advanced Imaging software, cloud software, embedded and Windows 10 systems & smart device apps. Evergreen Research services include full service engineering, regulatory affairs, quality systems, production, distribution and highly experienced personnel to make it happen, all the way. Evergreen Research is FDA registered and ISO 13485 and ISO 9001 certified.

EVOENDO

Aurora

evoendo.com

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

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.

EZALIFE, LLC

Aurora

www.ezalife.com

Ezalife designs and develops medical devices that make life easier for infants, children and adults with complex medical needs. Its first product, the Button Huggie, is a precision-designed, low profile gastrostomy button securement device.

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 Ovations).

FIREFLY MEDICAL, INC.

Fort Collins

www.fireflymedicalinc.com

Designs and develops innovative durable medical equipment for clinical healthcare markets.

FISCHER IMAGING

Wheat Ridge

<http://fisherimaging.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

Louisville

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.

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
genovusbiotech.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.

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.

GYROSTIM

Colorado Springs
www.gyrostim.com

Applying advanced technologies to physiological and neurological needs. Maker of GyroStim™

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.com

Developing automated external defibrillator.

HIRSH PRECISION PRODUCTS, INC.

Boulder
hirshprecisionproductsinc.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.

INDEV, 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.

C INNOVATUS IMAGING

Denver
www.innovatusimaging.com

Innovatus operates an engineering, testing, regulatory compliance and FDA registered contract manufacturing site. Design, development and testing of specialty products and ultrasound arrays take place in this facility in addition to quality and regulatory activity.

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.

KOKO, LLC

Longmont
www.kokopft.com

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

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.

C LIVE FULLY, INC.

Monument

www.livefullyinc.com

Live Fully is a medical device design and manufacturing company focused on restoring quality of life to patients with lung disease and their caregivers. Our efforts encourage active lifestyles to restore hope and extend lives. We embrace technology in a field that has not experienced improvements for an extended period. Our products collect significant real life data as authorized by the patients to optimize remote patient monitoring by their medical support team.

LOGISENS CORPORATION

Fort Collins

www.logisens.com

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

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.mbioldx.com

MBio Diagnostics is the innovator of the proprietary point-of care LightDeck platform that delivers highly sensitive, lab-quality results in minutes. The LightDeck platform consists of a robust, portable fluorescence analyzer and disposable, multiplex test cartridges. The test procedure is simple, enabling untrained users to perform testing on-the-spot. MBio is developing a portfolio of multiplex tests including panels for COVID-19, host-response panels for acute infections and sepsis and panels of cardiac markers for heart attack and heart failure. The LightDeck platform is also commercialized for veterinary diagnostics and for environmental testing.

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, Minnesota

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.

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.

MICROBIAL PULSE DIAGNOSTICS

Boulder

Microbial Pulse Diagnostics will enable point-of-care data-driven antibiotic prescriptions by providing physicians with a list of proven effective drugs in under two hours. Its nanoscale sensing technology "takes the pulse" of the bacteria causing a urinary tract infection to quickly determine their phenotypic susceptibility or resistance to antibiotics.

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.

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

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

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

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.

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.

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.

PATHOGENX LLC

Wheat Ridge
pathogenx.com

PathogenX LLC has developed an innovative approach to hospital-grade surface disinfection that promises (with further laboratory validation and EPA registration) to be more effective against hard-to-kill pathogens, highly cost-effective, and safer for humans, animals and the environment than anything on the market.

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.

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.

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.

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.

PREVIEW MEDICAL

Aurora
PreView focuses on the diagnosis and treatment optimization of prostate cancer.

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.

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.

QUADRIC BIOMED, LLC

Colorado Springs

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.

C SANA HEALTH, INC.

Lafayette

www.sana.io

Sana is a neuromodulation wearable for the control of chronic pain, addiction and

anxiety. Sana uses audio/visual stimulation to guide the user into a state of relaxation effects, the device consistently increases underlying neuroplasticity - which enables it to dramatically impact base pain and anxiety levels over time.

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.

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.

SCIENTECH, INC.

Boulder

www.scientech-inc.com

Manufactures analytical instruments: semimicro balances, analytical balances, semi-analytical balances, and toploading balances for the medical industry.

C SEASTAR MEDICAL

Denver

www.seastarmedical.com

SeaStar Medical is a commercial- stage medical device company focused on developing blood-based perfusion technologies to address life-threatening medical conditions.

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 control the growth of dangerous bacteria.

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-DESIS™ 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.

SOFRAY 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.

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.

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

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.

STRIVISION

Aurora
strivision.com

Creating a new form of visual analytics for breathing analysis using a combined hardware-software solution for respiratory diagnostics. The technology is building a new foundation for image-based respiratory analysis.

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 WATER TECHNOLOGIES

Boulder
www.suezwatertechnologies.com

Industry-leading water technology and process expertise to solve your toughest water, wastewater and process challenges.

SUMMITDX

Aurora
www.summitdx.com

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.

Boulder
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.

Denver
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 BLOOD AND CELL TECHNOLOGIES

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.

THERATOVS, 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
thrombotherapeutics.com

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.

TISSUEFORM

Boulder
www.tissueforminc.com

Tissue Form is dedicated to improving clinical outcomes at lower costs for patients suffering from tissue disease, injury, or deterioration from aging enabled through proprietary in-situ stem cell therapies

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.

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 SCOOP transtracheal oxygen therapy system.

C TRANSVERSE MEDICAL, INC.

Evergreen
www.transversemedical.com

Transverse Medical Inc. is developing the POINT-GUARD™ Dynamic Cerebral Embolic Protection (CEP) medical device to address the devastating and costly problem of stroke during the large and growing number of heart valve procedures that occur annually around the world, such as Transcatheter Aortic Valve Replacement (TAVR).

C TRISALUS LIFE SCIENCES

Westminster
trisaluslifesci.com

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

TRS, INC.

Boulder
www.trsprosthethics.com

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

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).

C VELOCITY SCIENCES

Boulder
velocitysciences.com

At Velocity Sciences, we strive to create innovative diagnostic products and services that improve human health. We do that by working with our strategic partners to create new assay technologies and innovative solutions to address some of the world's toughest problems in human diagnostics.

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.

C VERKKO BIOMEDICAL, LLC

Aurora
www.verkkobiomedical.com

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

VIEWRAY, INC.

Denver
www.viewray.com

Dedicated to giving clinicians new and better ways to treat cancer with radiation therapy.

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 sciences 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

Westminster
www.zimmerbiomet.com

Zimmer Biomet is a leading medical device manufacturer offering 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).

**BIOTECHNOLOGY,
PHARMACEUTICAL, AND
RELATED COMPANIES****C AGC BIOLOGICS**

Boulder, Washington
www.agcbio.com

AGC Biologics is a leading global contract development and manufacturing organization (CDMO), dedicated to the development and manufacture of biopharmaceuticals, from pre clinical to commercial

C AGILENT TECHNOLOGIES

Boulder, Frederick
www.agilent.com

Develops and manufactures therapeutic oligonucleotides.

ALTA BIOTECH

Aurora
www.altabiotech.com

Alta Biotech, LLC is a fast-growing global contract research organization specializing in molecular biology, biochemistry and cell biology services.

C ALLANDER BIOTECHNOLOGIES

Aurora
allanderbiotech.com

Developing novel therapeutics for oral mucositis.

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
www.ampdiscoveryllc.com

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.
- APOLOGIC PHARMACEUTICALS, LLC**
Aurora
www.apologic.com
Focused on the discovery, development, and commercialization of therapeutic products that target apoptotic cell death pathways found in cancers, leukemias and lymphomas.
- 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
arpeggiobiosciences.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 ARTISAN BIO**
Aurora
artisancells.com
A designer cell engineering and big data analysis platform to more rapidly generate safer and more efficacious cell therapies.
- 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.
- ATTILLAPS PHARMACEUTICALS**
Denver
attillapsholdings.com
Attillaps is a developmental stage pharmaceutical company, pioneering a novel drug platform for the treatment of inflammatory conditions in ophthalmology and dermatology .
- AVIDITY, LLC**
Aurora
www.avidity.com
Develops and sells molecular affinity tools for connecting molecules.
- AXIMMUNE**
Fort Collins
aximmune.com
Ax-101 is a small molecule immuno-oncology drug with potent anti-tumor activity when used as a single agent, dramatically reducing the size of lymphoma in some patients and stabilizing growth in others with intact immune systems while causing no significant drug related adverse effects.
- 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 AZURITY PHARMACEUTICALS**
Greenwood Village, Massachusetts
azurity.com
Developer and manufacturer of pharmaceutical products focused on the pediatric market.
- C BCELL SOLUTIONS, INC.**
Colorado Springs
bcellsolutions.com
Established to further research and develop a new drug therapy for the various forms of autoimmune diseases, neurodegenerative diseases, and cancer.
- C BERYL THERAPEUTICS**
Boulder
www.beryltherapeutics.com
Using Lipidomics to improve quality of life in humans and animals, starting with bone.
- C BIOMARIN PHARMACEUTICALS**
California
www.biomarin.com
BioMarin is a world leader in developing and commercializing innovative biopharmaceuticals for rare diseases driven by genetic causes.
- BIOMIMETIX JV, LLC**
Greenwood Village
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.
- C BOLDER BIOTECHNOLOGY, INC.**
Boulder
www.bolderbio.com
Bolder 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
bms.com
 Global biopharmaceutical company dedicated to discovering, developing and delivering innovative medicines that help patients prevail over 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 and stem cell products available anywhere in the world.
- 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 diseases.
- CERECIN**
Denver, Singapore
www.cerecin.com
 Cerecin is a global healthcare company with almost 20 years of innovation and leadership in brain health and target conditions ranging from memory impairment to neurological diseases
- CERIA THERAPEUTICS**
Aurora
ceriatherapeutics.com
 We are a preclinical biotechnology company focused on developing innovative and novel therapies to treat overactive and nonproductive inflammation to promote healing.
- C CETYA THERAPEUTICS, INC.**
Fort Collins
www.cetyatherapeutics.com
 Commercializes analogs of the class I isoform selective histone deacetylase inhibitor (HDA-Ci) largazole, targeting unmet medical needs, especially in oncology, neurodegeneration, autoimmunity, and hemoglobinopathies.
- CIRQUE CRYOTECH**
Boulder
cirquecryotech.com
 There's increasing demand for the efficient cryopreservation of cells, tissues, and even whole organs. The compounds currently used to protect cells against ice crystal formation are themselves toxic, which reduces efficient recovery. Cirque Cryotech can identify drugs that reduce that toxicity and improve recovery rates.
- 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.
- 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.
- CORDEN PHARMA**
Boulder
www.cordenpharma.com
 Corden Pharma Colorado is the small to large scale resource for peptides manufacturing.
- C CQ SCIENCE**
Denver
cq-science.com
 Cannabinoid based treatment options for inflammatory and immune mediated diseases.
- C CRESTONE, INC.**
Boulder
www.crestonepharma.com
 Drug discovery and development company focused on developing novel treatments for serious bacterial infections.
- C CSL BEHRING**
Pennsylvania
www.cslbehring.com
 CSL Behring is a leading global biotech company driven by its promise to save and improve lives. We manufacture remedies for serious and rare diseases.
- 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**
Boulder
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
edgewisetx.com
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.
- C ENLIVEN THERAPEUTICS**
Boulder
EnLiven Therapeutics focuses on the discovery and development of next generation small molecule treatments for cancer.
- ENTERO TRACK**
Centennial
enterotrack.com
Next generation monitoring of gastrointestinal allergic diseases.
- EXXEL PHARMA INC.**
Aurora
exxelpharma.com
The Company is focused on the development of small-molecule therapeutics for safe, non-addictive treatment of pain, PTSD, and substance (e.g. opioid) use disorders. Exxel is specifically targeting disease areas with significant unmet medical needs and aims to become the leader in therapeutics that enhance endocannabinoid signalling by FAAH inhibition.
- 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.
- 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.
- C GATES BIOMANUFACTURING FACILITY**
Aurora
gatesbiomanufacturing.com
Helps clients accelerate the translation of their discoveries into human clinical trials as efficiently and cost effectively as possible.
- GENASSIST, INC.**
Greenwood Village
www.genassist.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.
- C GILEAD SCIENCES**
California
www.gilead.com
Gilead Sciences, Inc. is a research-based biopharmaceutical company focused on the discovery, development, and commercialization of innovative medicines.
- C 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 (GSK)**
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 GLOBEIMMUNE, INC.**
Louisville
www.globeimmune.com
GlobeImmune is developing Tarmogen product candidates to treat cancer and infectious diseases.
- C GRAIL, INC.**
California
grail.com
GRAIL is a healthcare company whose mission is to detect cancer early, when it can be cured. GRAIL is focused on alleviating the global burden of cancer by developing pioneering technology to detect and identify multiple deadly cancer types early.
- 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 HEMOSTEMIX, INC.**
Greenwood Village
hemostemix.com
Hemostemix's technology uses a patient's own cells to treat that patient's disease. The cornerstone of this autologous technology is a novel cell population within the blood called the synergetic cell population (SCP). The synergetic cell population, which can be collected from a simple blood draw, consists of progenitor and other supporting cells that are being developed for the treatment of ischemic diseases.
- 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 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.

C I2 PHARMACEUTICALS, INC.**Boulder****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.

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.

IMMUNOAH THERAPEUTICS**Aurora****www.immunoah.com**

Focuses on researching and developing proprietary antibodies in the field of cancer immunotherapy.

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 sciences 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.

LAB79 TECHNOLOGIES, INC.**Boulder**

Developing a method to sequence DNA by monitoring the changes in force as a piece of single-stranded DNA is pulled through an interface.

LAPORTE**IMMUNOTHERAPEUTICS****Fort Collins****www.laportemimmuno.com**

Topical immunotherapy for prevention and control of respiratory and ocular viral and bacterial infections

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.

LEVANA BIOLOGICS**Denver****www.levanabiologics.com**

Levana Biologics is a Biotechnology Company that 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.

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.

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 MILE HIGH LABS

Broomfield

milehighlabs.com

At Mile High Labs, we share a collective vision for the longevity of the CBD industry. We aspire to be the CBD supply chain partner of choice for the world's leading CPG brands. We aim to continue setting the standards for quality, compliance, traceability and consistency. Overall, we're committed to advancing the industry forward and making CBD accessible to all through scientific innovation and research.

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

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.



MITTERERA
COLORADO

CONTACT:

Michael Ehrman • 303.487.4260

michael.ehrman@mitterera.com

Specializing in print communications for the BioScience and Pharmaceutical community, Mitterera is one of the country's leading providers of print, mail and marketing services.



With Mitterera, you're guaranteed access to a community of knowledgeable professionals who prioritize cutting-edge technology, quality and efficiency with every job. With a manufacturing platform of award-winning printing operations across the United States, we can maximize any project from short-run market-specific versions to high-volume mailings.

mitterera.com

MITTERERA® GROUP COMPANY

MYCOBACTERIA THERAPEUTICS

Boulder

Mycobacteria Therapeutics Corporation is harnessing the potentially anti-inflammatory properties of soil-derived mycobacteria that have developed over millions of years of evolution. We specialize in the cultivation of novel strains of mycobacteria and testing of these bacteria for mental health and stress resilience benefits.

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

Greenwood Village

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 NEW IRIDIUM, LLC

Boulder

www.newiridium.com

Organic photocatalyst technology that empowers the next generation of pharmaceutical and chemical manufacturing.

C NOVARTIS

Switzerland

www.novartis.com

Novartis is a global healthcare company based in Switzerland that provides solutions to address the evolving needs of patients worldwide.

C NOVARTIS GENE THERAPIES

Longmont

www.novartis.com

With cutting-edge technology, Novartis Gene Therapies is making progress in the treatment of rare and life-threatening neurological genetic diseases.

C NOVO NORDISK

New Jersey

www.novonordisk.com

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

C NOVUS BIOLOGICALS, 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.

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.

C OTSUKA PHARMACEUTICALS

Maryland

www.otsuka-us.com

Otsuka's pharmaceutical business develops and markets products for the diagnosis and treatment of disease in the following areas: central nervous system, oncology, gastroenterology, ophthalmology and cardiovascular.

PANTHERYX

Boulder

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.

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

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

C PFIZER, INC.

Boulder/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.

C PHOTON PHARMA

Fort Collins

photonpharmaceuticals.com

PhotonPharma is an immune oncology company. We have developed a breakthrough technology that stimulates a patient's own immune system to seek out and destroy their cancer cells. The key to the technology is a patent protected process that precisely inactivates the replication ability of a patient's tumor cells while leaving intact all of the tumor's unique immune antigen targets. When a patient's immune system encounters the inactivated cells, it mounts a response to rid the body of all such cells, including the native tumors or metastases. The process is simple, fast and inexpensive. A patient's tumor cells can be extracted, inactivated and administered back on the same day.

- C PLATO BIOPHARMA**
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.
- C PREVACEPT INFECTION CONTROL, INC.**
Broomfield
www.prevacept.com
 Prevaccept 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**
Westminster
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
 Renaptys Vaccines is developing a proprietary stable peptide immunogen platform.
- 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.
- 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.
- C SANOFI**
New Jersey
www.sanofi.com
 Sanofi US is comprised of five business units that focus on human vaccines, rare diseases, multiple sclerosis, oncology, immunology, infectious diseases, diabetes and cardiovascular solutions, consumer healthcare, established prescription products and generics.
- C SEPANTA, INC.**
Fort Collins
sepantainc.com
 Sepanta's mission is to develop non-viral therapeutics delivery vectors based on the proprietary biocompatible and biodegradable smart polymer platform.
- SINFONIA BIOTHERAPEUTICS**
Boulder
www.sinfoniabiotherapeutics.com
 Developing novel, bioreactor-delivered treatments for familial and genetically - defined orphan neurodegenerative diseases
- C 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.
- C SOPHIA GENETICS**
Aurora/Switzerland
www.sophiagenetics.com
 SOPHiA GENETICS is a health tech company democratizing Data-Driven Medicine to improve health outcomes and economics worldwide. By unlocking the power of new-generation health data for cancer and rare diseases management, the universal SOPHiA Platform allows clinical researchers to act with precision and confidence. The company's innovative approach enables an ever-expanding community of over 1,000 institutions to benefit from knowledge sharing, fostering a new era in healthcare. SOPHiA's achievement is recognized by the MIT Technology Review's "50 Smartest Companies".
- C STAQ PHARMA**
Denver
www.staqqpharma.com
 503B Outsourcing facility. Focused on sterile, pre-filled syringes.
- 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.
- 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.
- 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.
- TISSUEFORM**
Boulder
www.tissueforminc.com
A micro particle tissue technology that targets scarring, wrinkles and tissue loss due to aging or injury.
- C TOLMAR**
Fort Collins, Windsor
www.tolmar.com
A fully integrated pharmaceutical company focused on the development, approval, and commercialization of specialty pharmaceutical products.
- 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. 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.upsheer-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.
- C VALIDUS CELLULAR THERAPEUTICS**
Aurora
validustherapeutics.com
Validus Cellular Therapeutics are innovating solutions to resistant infections using cellular therapies.
- 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.
- C VERTEX PHARMACEUTICALS**
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
visugenglobal.com
Advancing a new approach to concentrate and detect gene targets in a method that is simple to perform anywhere needed.
- C VIDA BIOMEDICAL**
Denver
vidabiomedical.com
Vida Biomedical LLC is an early clinical stage biotechnology company that discovers, develops, and accelerates treatments for serious medical conditions. Vida works in concert with inventor partners to advance life-changing science.
- C VITRIVAX, INC.**
Boulder
vitrivaxbio.com
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.
- C VIVALDI BIOSCIENCES**
Fort Collins
www.vivaldibiosciences.com
Developing advanced vaccines for prevention of common seasonal influenza ("flu") and emergent pandemic flu.
- C WATCHMAKER GENOMICS**
Boulder
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
Develops chemical and biochemical technologies. Successfully finished multi-step syntheses using Bromination, Grignard reaction, Suzuki coupling, Amidation, and Esterification reactions.
- YUSCIENCE, LLC**
Aurora
yuscience.com
Focusing on the development of early disease biomarkers in patients with multiple sclerosis (MS).
- C 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.

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 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.

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.

CONCENTRIC

Denver, Montreal
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.

EMERGY FOODS

Boulder
www.meati.com

Whole muscle, plant-based meat alternative company. Developed a sustainable, proprietary process to produce food and ingredients and finished goods from fungal mycelium.

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.

FRONT RANGE BIOSCIENCES

Lafayette
www.frontrangebio.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.genethera.net

Develops and markets molecular technologies to eradicate “cross over” diseases such as John’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

Fort Collins

www.heska.com

Develops advanced diagnostics and specialty products for veterinary practices that focus on companion animals.

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.

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.

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.lacunadiagnostics.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, 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.

LIVING INK TECHNOLOGIES

Aurora

livingink.co

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

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.

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.

OPTIBRAND LTD., LLC

Fort Collins

www.optibrand.com

Specializes in livestock identification devices and veterinary diagnostics.

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.

C 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.

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.

VETMEASURE

Fort Collins

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.

C ZOETIS

Longmont

www.zoetisus.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.

DIGITAL HEALTH

ABLELINK TECHNOLOGIES

Colorado Springs

www.ablelinktech.com

Addresses the need for well-researched cognitive support technologies for individuals with intellectual disabilities.

C ACTUATE HEALTH

Castle Rock

www.actuate.health

Actuate Health develops and markets disruptively innovative technologies in the fields of biosensors and digital health. Actuate Health is focused on technologies that can provide diagnostic, therapeutic and preventative tools to combat the current COVID-19 pandemic and future respiratory viruses. Actuate's technology is also being applied to the wellness and fitness market, providing systems to train pulmonary function for improved athletic performance and general wellness.

ADAN.NET

Denver

adan.net

Comprehensive Lifetime Navigation Platform for people with Autism and other developmental disabilities.

AIVANTE HEALTH SOLUTIONS

Centennial

aivante.com

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

BIOINTELLISENSE

Aurora

biointellisense.com

The BioIntelliSense Data-as-a-Service (DaaS) platform and FDA-cleared BioSticker™ on-body sensor are bringing medical grade monitoring and management to the home for scalable remote care.

BIOLOOMICS, INC.

Boulder

bioloomics.com

Providing a B2B service to pharma R&D companies that predicts clinically relevant effects of drugs using a high throughput platform drug screening technology.

C BURST IQ

Denver

www.burstiq.com

Building a secure and open platform for health data.

CARESPAN

Boulder

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.

CLINONE

Denver

www.ClinOne.com

ClinOne is dramatically changing the landscape of clinical trial management to accelerate clinical trial execution, reduce costs and provide patients with access to life-changing clinical trials to advance medicines far more rapidly than today.

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.

COUNTERMIND

Denver

www.countermind.com

Countermind's Mobile Intelligence™ Platform allows us to deploy solutions quickly and with little or no custom programming involved. Once our platform is in place, we can deploy new workflows in hours. And there's more.

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

dreamfacetech.com

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

EARABLE, INC.

Boulder

earable.ai

Earable™ is an earbud packed with biosensors for convenient health quantification. It is much more convenient than current devices used in hospitals because it has the smallest form factor given its accuracy and sensing capability. Unlike other wearables, Earable™ has more sensors, is located on the head, and uses proprietary machine learning algorithms for higher accuracy of bioelectric analysis.

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.

EON HEALTH

Denver

eonhealth.com

Eon EPM is an end-to-end patient management platform that uses Computational Linguistics—best in class proprietary data science models—to assist with actionable finding identification and longitudinal tracking.

ETTA EPIDERMIS

Denver

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

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

healthscholars.com

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

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.

HIPPO HEALTH

Boulder

www.hippohealth.com

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

IMIDEX

Denver

imidex.com

IMIDEX is a leader in clinical decision support solutions in healthcare.

INGENIUMCARE

Denver

www.ingeniumcare.com

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

MEDAWARE SYSTEMS

Broomfield

www.medaware.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.

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

Lakewood

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

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.com

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.

MUSCLESOUND, LLC

Denver

www.musclesound.com

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

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
nowvitals.com

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

NYMBL SCIENCE

Denver
www.nyblscience.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
opisafe.com

Data collection and analysis for unmatched opioid intelligence and solutions

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
Helps hospitals recognize and predict patient risk and improve quality of care.

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.

RXREVVU

Denver
www.rxrevu.com

RxRevu is a Denver-based company on a mission to improve healthcare through more informed, consistent, and frictionless prescription decisions. RxRevu's Prescription Decision Support technology promotes condition-appropriate prescribing and patient cost transparency to improve safety and satisfaction. The SwiftRx® platform helps clinicians quickly and easily find affordable alternatives to more costly medications specific to a patient's health needs and out of pocket cost. It also enables health systems to holistically manage and measure clinicians prescribing performance.

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.

SENSENTIA

Denver
sentsentia.com

Sentsentia technology helps translate the complexity of health plans into accurate and meaningful information.

SKINDROID

Aurora
skindroid.org

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

Greenwood Village
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 biaural beat system to slow the brain rate from an awake state to a sleeping state.

SMARTTAB

Denver
www.smarttab.co

SmartTab is a digital medicine company on a mission to provide novel, effective therapies that improve patient outcomes. SmartTab has developed a personalized wireless drug delivery platform comprised of an ingestible capsule with a microprocessor, proprietary smart polymer actuator, and active ingredients.

SOLERA HEALTH

Denver
soleranetwork.com

Solera Health is rapidly scaling the National Diabetes Prevention Program (DPP) by connecting people with prediabetes, payers, and providers with community-based and digital DPP providers, simply and securely.

C SOMALOGIC

Boulder

www.somalologic.com

Uses proprietary technology and bioinformatics capabilities to discover disease-specific protein signatures and translates those into actionable diagnostic and prognostic health information.

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.

STRIDETECH

Westminster

www.stridetechnology.com

StrideTech Go is a technology embedded walker attachment that provides real-time haptic feedback when incorrect walker use is detected, empowering aging adults to learn and maintain correct mobility device use.

TECH-X CORPORATION

Boulder

www.txcorp.com

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

TEST APPROPRIATE, LLC

Littleton

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

C TRIDENT XI

Denver

www.tridentxi.com

We specialize in proven technologies that save and improve lives in public safety and healthcare.

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.

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.

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.

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

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

ACADEMIC AND RESEARCH INSTITUTIONS

C ADVANCED DIAGNOSTIC LABORATORIES (ADX) AT NATIONAL JEWISH HEALTH

Denver

www.njlabs.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 15189 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.

BIOSERVE SPACE TECHNOLOGIES, COLLEGE OF ENGINEERING AND SCIENCE - UNIVERSITY OF COLORADO BOULDER

Boulder

<https://www.colorado.edu/center/bioserve/>

Specializes in conducting microgravity life sciences research and designing and developing space flight hardware.

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.

CENTERS FOR DISEASE CONTROL AND PREVENTION/ DIVISION OF VECTOR-BORNE INFECTIOUS DISEASE

Fort Collins
www.cdc.gov

The Division of Vector-Borne Infectious Diseases (DVVID) 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. DVVID 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.

CHI INSTITUTE FOR RESEARCH AND INNOVATION (CIRI)

Englewood
www.chiresearch.org

Founded by Catholic Health Initiatives (CHI). 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.

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 Sciences 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.

C 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 pro-

grams 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 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 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.

C FITZSIMONS INNOVATION COMMUNITY

Aurora
Fitzsimonsinnovation.com

At Fitzsimons Innovation Community, visionaries boldly transform science into the future of health and care. Our community pushes boundaries in a unified pursuit of health breakthroughs. From concept through commercialization, organizations choose Fitzsimons for its entrepreneurial environment, leading-edge facilities, and campus-wide support. Visionaries discover, develop, and collaborate with direct access to the renowned clinicians and researchers at the University of Colorado Anschutz Medical Campus. We are united to advance health. Visit: <https://fitzsimonsinnovation.com>

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.

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 experi-

enced advisors, and making introductions to corporate and strategic partners.

C KEYSTONE SYMPOSIA ON MOLECULAR AND CELLULAR BIOLOGY

Silverthorne
www.keystonesymposia.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.

C NATIONAL JEWISH HEALTH

Denver
www.njhealth.org

National Jewish Health, the nation's #1 respiratory hospital in the US, 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.

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.

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.

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.

SCIENTIFIC EDUCATION & RESEARCH FOUNDATION

Thornton
theserf.org

World class medical facility, amphitheater and bioskills lab

STEADMAN PHILIPPON RESEARCH INSTITUTE

Vail
www.sprivail.org

The leader in 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

Our 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
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.

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.

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.



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elevationsd.com

EVERSANA
www.eversana.com

Metz Biotechnology Consulting
metzbiotech.com

Quality, Microbiology & Sterilization Services
qmsram.com

RMC Pharmaceutical Solutions
www.rmcpharma.com

**Rocky Mountain Regulatory
and Quality Partners**
rmrqp.com

Velocity BioGroup
www.velocitybiogroup.com

CONTRACT RESEARCH ORGANIZATIONS

CARE Research LLC/Colorado Histo-Prep
www.careresearchllc.com

CPC Clinical Research
www.cpcmed.org

Illingworth Research Group
illingworthresearch.com

inotiv
www.inotivco.com

Microbial Research, Inc.
www.microbialresearch.com

National Jewish Health / ADX Labs
www.njllabs.com



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njllabs.org
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Plato BioPharma, Inc.
www.platobiopharma.com

Premier Laboratory
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Pyxant Labs, Inc.
www.pyxant.com

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DATA SYSTEMS

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L7 Informatics
L7informatics.com

Skyland Analytics, Inc.
www.skylandanalytics.net

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cagents.com

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www.design-solutions.com

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www.evergreenresearch.com

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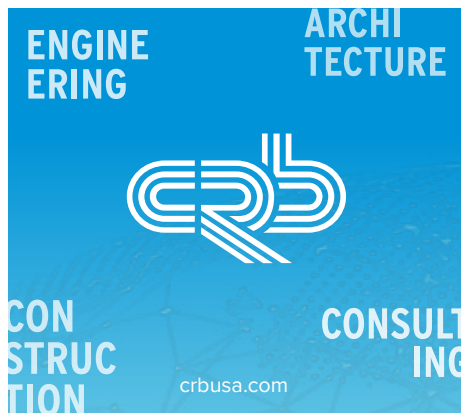
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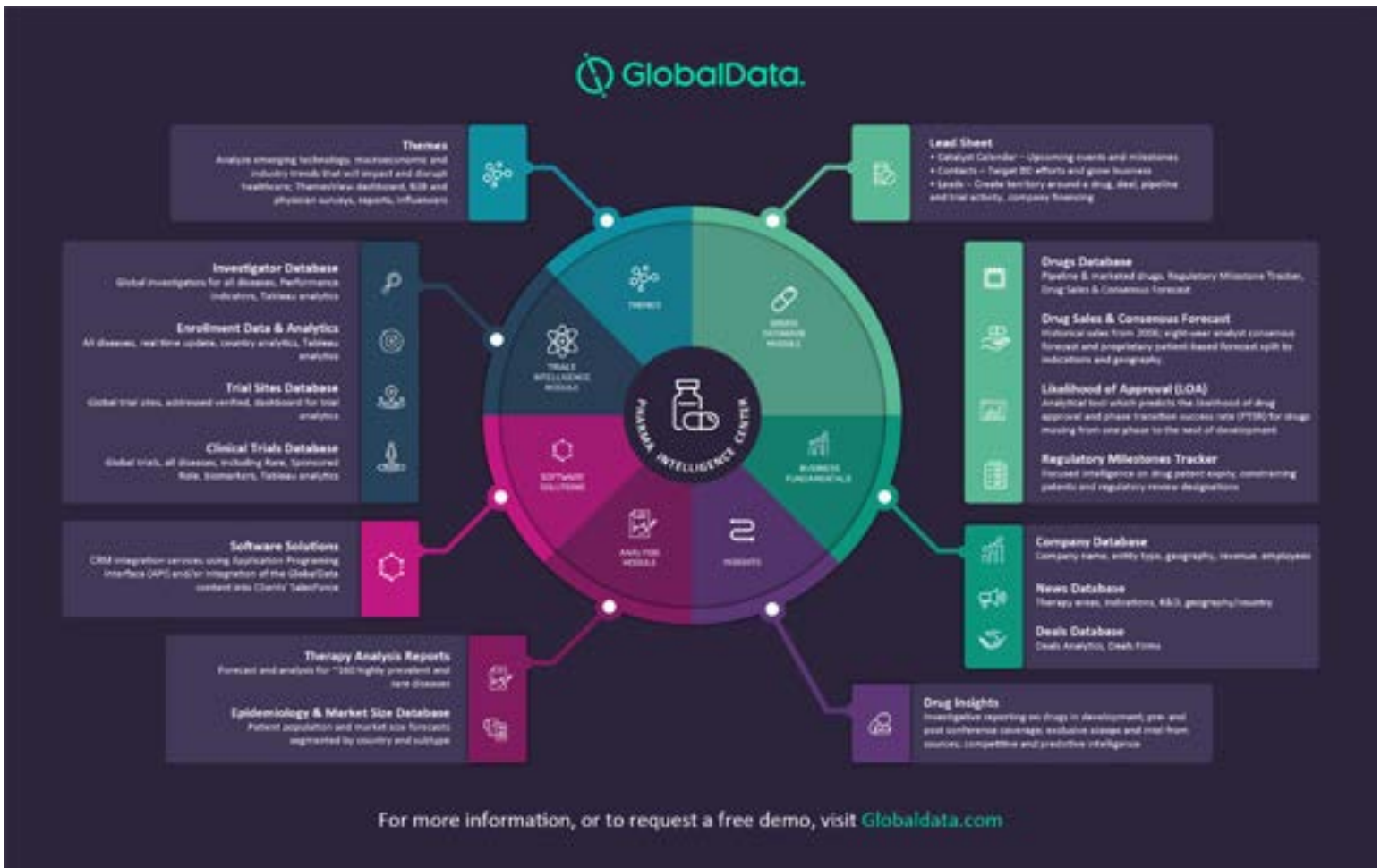
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