

Bioscience



JUNE 2004

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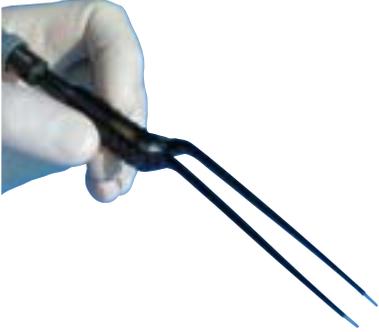
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The Power of Multi-disciplinary Cooperation

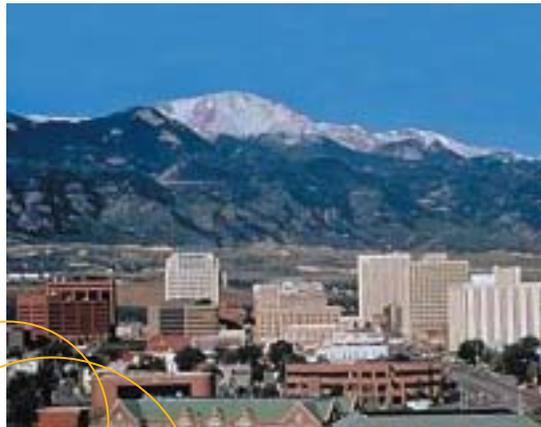
At the beginning of the new millennium, two seemingly unrelated events occurred that may change the course of biomedical history.

The first was the sequencing of the entire human genome. The second was the unexpected loss of employment for thousands of high tech workers. These events have become intertwined in a surprising and important way. The following is my personal tale of how world events, scientific discovery, and an introduction to talented, yet unemployed, engineers, computer scientists and mathematicians, become catalysts for change and resulted in the creation of a research institute and at least three new companies in southern Colorado.

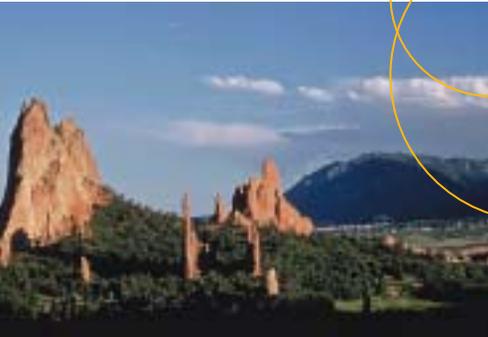
I took a ten year leave between acquiring my Bachelor's Degree in Microbiology and obtaining my Ph.D. in Immunology to be a parent. Re-entering graduate school with a ten year gap had its challenges, but also its unique rewards. I am extremely grateful to those that decided that retraining me might be worthwhile.

My work concerns how cells die. While at the University of Vermont as a new faculty recruit, I was introduced to a group of physicians, pharmacologists, and endocrinologists. Collaboratively, we began to unravel an unexpected connection between the immune system, control of cell death, and cellular energy metabolism.

Experimental results produced large quantities of scientific data and an urgency to understand and interpret all that data. In 1999, I moved to the University of Colorado at Colorado Springs (UCCS). We expanded the research and created the Institute of Bioenergetics that focuses on energy and the immune system. We continued to be frustrated by our need for timely results from more data than we could possibly handle. To bridge this gap, I started my first foray into computational biology by trying to use the computer skills of our students to process this growing body of data. We received a



By M. Karen Newell



seed grant from the Colorado Institute of Technology to create a Certificate in Computational Biology and joined forces with the system-wide Center for Computational Biology in Denver.

In November 2003, the importance of multi-disciplinary cooperation hit home when Mr. Robert "Rocky" Scott, CEO of the Colorado Springs Economic Development Council (EDC), requested that I speak at an event jointly sponsored by the Pikes Peak Work Force and his organization. The audience was mostly local unemployed high tech workers who were trying to find jobs with help from Pikes Peak Work Force. I presented an overview of our work and I described our efforts to create a new certificate program in computational biology. Interest in the certificate program was

overwhelming and enthusiastic. With approval from the Biology Department at UCCS, we finalized the first Certificate in Bioinformatics and Computational Biology and accepted our first students in January 2004. Already the students are creating new software, designing new medical devices, and mathematically modeling complex biological systems. I predict that the new technologies and skills being created will provide self employment and new career opportunities for many of these students.

Perhaps sharing our experiences encourages cross-seeding between bioscience research and the world of math and technology. Extraordinary amounts of newly acquired data can be processed and understood using the computational talents of newly trained high tech workers and students

potentially creating unprecedented medical breakthroughs. ♦

M. Karen Newell, Ph.D. is the Chief Scientific Director of the CU Institute of Bioenergetics and the Clement and Margaret Markert Endowed Professor of Biology at the University of Colorado, Colorado Springs. Dr. Newell's scientific interests include cellular metabolism, the immune system, and cell death.

THE COLORADO ADVANTAGE

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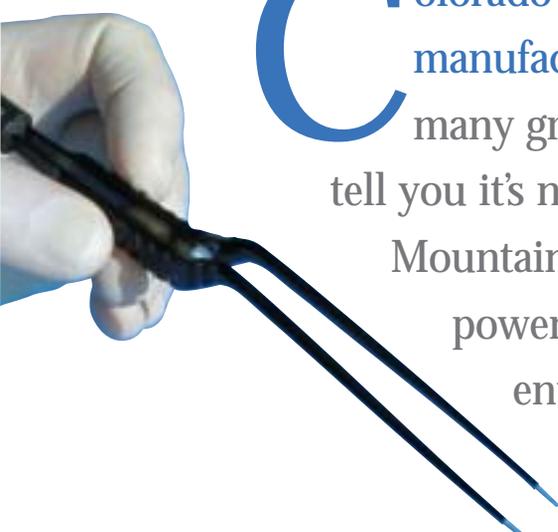
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Colorado - Medical Device Mecca



Colorado has one of the highest densities of medical device manufacturers in the nation. Why is Colorado home to so many great medical device entrepreneurs? Entrepreneurs will tell you it's not just the allure of the Rocky Mountains, but rather Colorado's powerful and sustainable entrepreneurial spirit.

by Ed Wood



Byers Peak (www.byerspeak.com) is an excellent example of a spinoff entrepreneur. When the Renal Products division of Gambro AB in Lakewood decided to locate its equipment manufacturing in Europe, Phil Prescott and Doug Pruett seized the opportunity to fill the vacuum left by Gambro's decision. They created Byers Peak to perform repair and refurbishment services for Gambro's hemodialysis machines. Later, they expanded into contract manufacturing, distribution and field services. Byers Peak credits its success to entrepreneurship, Colorado's experienced talent pool, economic development assistance from government agencies and support from the Colorado BioScience Association (CBSA) (www.cobioscience.com).

Two local entrepreneurs, with a combined 34 years experience in various Colorado medical device companies, Jonathan Thorne and Kevin Morningstar pooled their ideas

and created Silverglide Surgical Technologies, Inc. (www.silverglidesurgical.com) in 1997. They manufacture electrocautery instruments enhanced with the SILVERGlide® non-stick technology. This technology prevents the sticking and buildup of tissue, which results in faster, more precise surgery. Silverglide is not a spinoff of one of Colorado's electrocautery companies such as Valleylab (www.valleylab.com) or Conmed Electrocautery (www.conmed.com), but is a de novo company that simply developed a better mousetrap. Jonathan relishes the "huge" talent pool in the state and readily available senior advisors who "keep me from making dumb mistakes."

Founded in 1969, Denver Biomedical, Inc. (DBI) (www.denverbiomedical.com) is a global leader in designing and manufacturing specialized critical care medical devices for fluid management of ascites and pleural effusion. From



its commitment to its customers, DBI led the industry to help patients receive reimbursement for fluid management products. Bonnie Vivian, CEO, tapped into a pool of successful retired Colorado medical device executives for business advice and key employees. Vice Presidents of Sales, Marketing and Manufacturing came to DBI with years of experience from other Colorado medical device companies.

Some medical device companies, such as Medical Simulation Corporation (www.simsuited.com), got their start by transferring technology from one of Colorado's research universities. Others, such as Baxa Corporation (www.baxa.com), relocated their 10 person company from Illinois to Colorado in 1981. Baxa founder, Brian Baldwin, started an industry association called the Colorado Medical Device Association, which later merged with the Colorado Biotechnology Association to form CBSA. Baxa's success now continues under his son Greg's leadership.

Whether a de novo start-up, a spinoff from a larger company, a tech transfer or a transplant from another state, Colorado's entrepreneurs find success in a state blessed not only with the grandeur of the Rocky Mountains, but an infrastructure that nourishes business. ♦

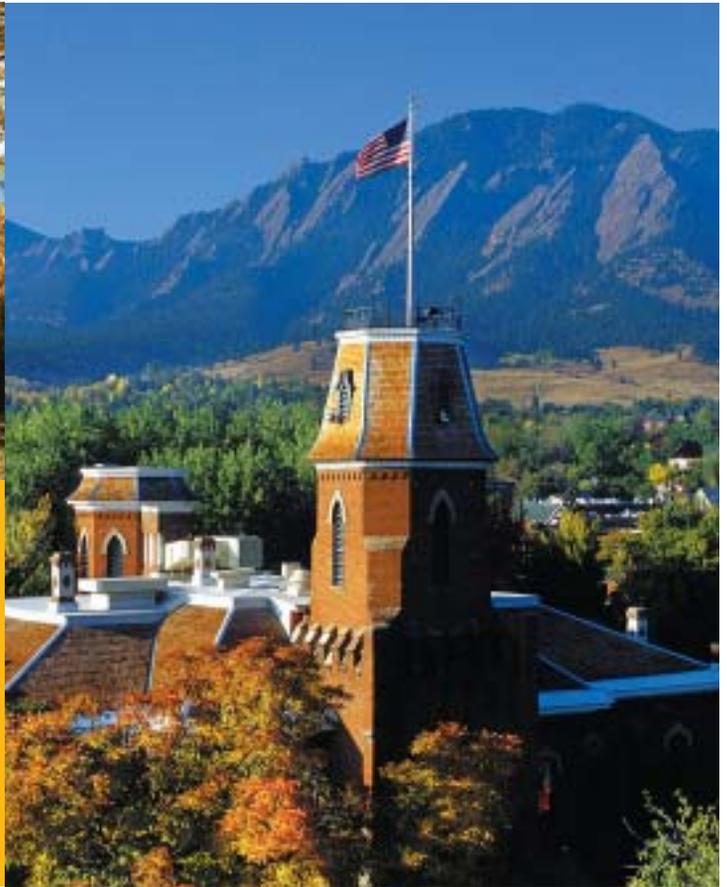
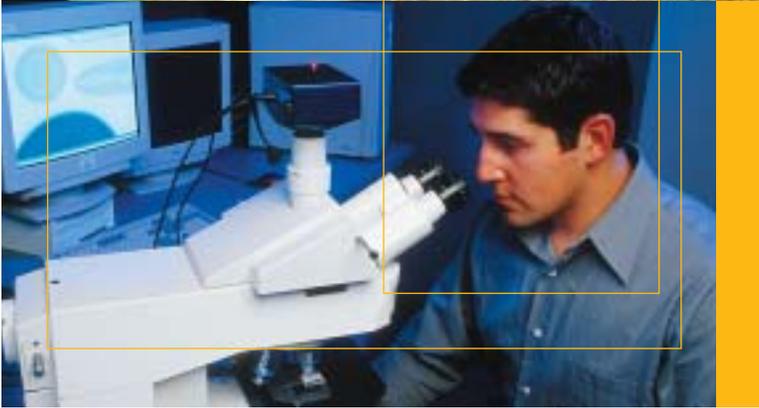
Ed Wood is the Executive Chairman of Mission Medical, Inc., a California company that is automating the collection process for whole blood. He is currently the CEO of Summit Roundtable, coaching medical companies to achieve market and financial success.

THE COLORADO ADVANTAGE

Colorado's Medical Device location quotient equals 1.52. This means the sector is 52 percent more concentrated in Colorado than nationally.

Battelle Memorial Institute 2003





University of Colorado Helps Build the Biotechnology and Biomedical Industry

by Vivian Dullien

The University of Colorado (CU) makes major contributions to Colorado's bioscience industry in two ways. First, the University is a major source of scientific research that brings substantial funding into the state. **CU raised over \$530 million in sponsored research funding in 2003.** This ranks CU in the top ten of public research universities. Faculty includes three Nobel Laureates, nineteen members of the National Academy of Sciences and seven MacArthur Fellows. Second, CU has made a substantial commitment to transfer commercially promising technology and research to private enterprise.

Since the 1980s, several CU discoveries were fundamental to the growth of the biotechnology industry. In 1983, faculty member Marvin Caruthers devised a method to construct DNA fragments of predetermined sequence from five to about 75 base pairs long. This breakthrough made synthetic DNA available to biochemists, molecular biologists, and biologists. Since this groundbreaking achievement, CU discovered the Nobel Prize winning ribozyme and SELEX method for generating diverse pools of molecules for research and drug development. These findings continue to attract new investment.

Over the last year, CU increased its efforts to transfer technology and licenses to experienced entrepreneurs endorsed by private and venture capital investors. The following examples illustrate the scope and depth of CU's research base.

- Working with Bill Arend, Amgen brought a treatment for rheumatoid arthritis (Kineret™) to market.
- Fisher Scientific paid \$80 million to acquire Dharmacon that marketed Marvin Caruthers' RNA oligonucleotide synthesis process.
- Sirna Therapeutics licensed Thomas Cech's ribozyme discoveries and just completed a \$53 million round of funding.
- By licensing CU's SELEX process, Larry Gold acquired financing for SomaLogic and identified an aptamer (Macugen™) that EyeTech will jointly develop and market with Pfizer.
- CU researchers and Myogen founders Michael Bristow and Leslie Leinwand are jointly working with Novartis to test and develop cardiac diagnostics and therapeutics.

- This year GlobeImmune, founded by Drs. Duke, Franzusoff and Bellgrau, is preparing a Phase I clinical trial of an AIDS vaccine and has received Series A venture investment worth \$8M.

CU discoveries help fuel biotechnology expansion, evidenced in more than a dozen new start-ups since fall of 2002. They include:

- AlphaSniffer, a joint development between CU's Physics and Mechanical Engineering departments, will develop a portable, low-power device that quickly identifies gaseous or liquid chemicals. Dana Anderson and

- Cardiologists John Carroll and James Chen developed software to produce accurate, high-quality images of the beating heart. The software is licensed to Philips Medical Systems and Medical Simulation Corp.
- Efectka Technologies licensed drug discovery software from Proteomics Facility inventor Mark Duncan.

CU has contributed to the biotechnology industry since its conception. By encouraging cross-campus and interdepartmental collaborations and practicing innovative technology transfer to private enterprise, CU accelerates market adoption of new technologies.



Victor Bright obtained patents for this technology.

- BaroFold, headed by John Carpenter of the Health Science Center Pharmaceutical Sciences and Ted Randolph, professor of chemical engineering at the Boulder Campus, aims to improve quality and yield of recombinant pharmaceutical proteins.
- Karen Newell's CU Center for Bioenergetics in Colorado Springs licensed promising cell metabolism discoveries to drug and nutraceutical companies.
- Paul Wischmeyer, who received CU's 2003 "First Time Inventor" award, started a company that will begin human trials for treatment of reperfusion injury and sepsis.

The State of Colorado has a great research university with the talent, science and funding to build a powerful bioscience industry. ♦

Vivian Dullien, Ph.D, is Director of Technology Transfer at the University of Colorado Health Science Center.

**THE COLORADO
ADVANTAGE**

Most recently, a study conducted in China and published in *The Economist* of London, ranked CU as the 11th best public university in the world, and one of the 50 best universities of any kind based on criteria such as highly cited researchers and Nobel laureates in selected fields.

Boulder Daily Camera, April 29th, 2004



Colorado State University (CSU), a regional and national leader in scientific discovery, generated approximately **\$200 million in sponsored research** activities in fiscal year 2004. CSU actively engages with Northern Colorado companies and laboratories in the fields of veterinary medicine, biotechnology, engineering, agriculture, and natural resources.

Bioscience research in Northern Colorado and Colorado State University

by Arundeeep S. Pradhan

CSU collaborations with the Centers for Disease Control Division of Vector Borne Infectious Disease, the U.S. Department of Agriculture National Wildlife Research Center and the U.S. Department of the Interior Natural Resource Laboratories form a robust research environment for important public health, homeland security and natural resource research. Additionally, CSU offers the Macromolecular Resource Facility and Laboratory Animal Resources facilities on a fee basis to private companies or institutes.

CSU has a long and successful history of collaborating and supporting Northern Colorado bioscience companies. These companies include Heska Corporation, DAKO-Cytomation, Optibrand, XY, Inc., Mycos Research, Aurogen, Inc., Brotica, Inc., Gonex, Inc., Tagawa Greenhouses, PR Pharmaceuticals and Atrix Laboratories, Inc. These collaborations and transfer of technologies resulted in potential tuberculosis and Johne's disease diagnostics, treatments for diabetes, termite control strategies, and non-invasive pet sterilization. In addition, CSU engages with the Colorado Wheat Research Foundation and the Colorado Certified Potato Growers Association for research, introduction and commercialization of new crop varieties that are disease resistant.



As the state's land-grant university, CSU's top priority is to generate knowledge while simultaneously applying that knowledge for society's benefit. CSU meets this obligation by being a nationally ranked research university, graduating qualified students and collaborating with local companies, federal laboratories and other institutions to create new technologies and economic growth. ◆

Arundeeep S. Pradhan, Director for Technology Transfer, joined the Colorado State University Research Foundation in 1999.



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The State of Colorado is poised and ready to help grow your bioscience company.

Why Colorado? It's very simple...Colorado has the 2nd most educated workforce in the country, access to seed and venture capital, world class universities and research institutions, the entrepreneurial infrastructure and services you require, low taxes, business friendly tort law and little red tape.

What else could you want? How about a quality of life that includes over 300 days of sunshine and abundant cultural and recreational activities.

You will be joining a robust bioscience cluster when you come to Colorado.

With 240 companies employing over 17,000 scientists and technicians, there is abundant energy in Colorado's life science industry. Colorado's research institutions receive over \$300 million annually for research in the life sciences, a 31% growth rate compared to 27% for the nation. The jewel in Colorado's bioscience crown continues to be Fitzsimons, a world-class bioscience city that combines bioscience research, education, clinical and commercialization space in one square mile.

Elias Zerhouni, NIH Director, visited in 2003 and said of Fitzsimons, "You are poised to go to the next step...no one has put together the firepower, intellectual and physical, that I see here today".

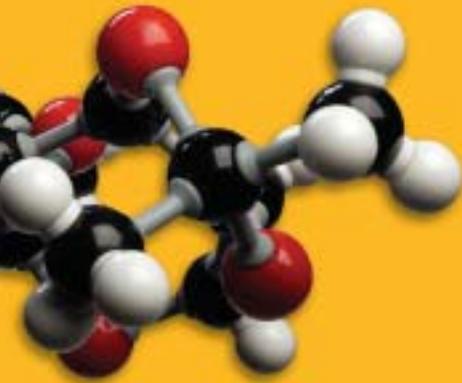
Colorado is an undeniable technology leader and a myriad of objective rankings bear this out: The *PWC MoneyTree Survey* showed that in 2003, Colorado's companies secured \$621 million, a 12% increase over 2002 which ranked Colorado 5th in the nation. The March 2004 *Milken Institute "State Science and Technology Index"* ranked Colorado number 3 for science and technology assets. The June 2003 *National Policy Research Council's "America's Best Cities and States: The Annual Gold Guide to Leading Rankings"* ranked Colorado number 2 overall among the 50 states and Denver #1 in a diverse set of academic, research, association and trade group rankings.



The State of Colorado invites you to visit and discover first-hand the opportunities that are available to bioscience companies, entrepreneurs and investors. We look forward to working with you.

Bill Owens.

Bill Owens
Governor



Advantage COLORADO

THE COLORADO ADVANTAGE

Through unique public-private partnerships, we're leveraging Colorado's competitive advantage and improving our market share in the biotech and life sciences industries. Our state already has the critical elements in place to become a national industry center.

Governor Bill Owens

NEW SEED FUND

During 2004, the Colorado legislature redirected \$50 million in premium tax credits to a new Colorado venture capital program under Senate Bill-106. Even in a tough fiscal environment, the legislature recognized the need to "seed" Colorado's start-up companies. The legislation established a Venture Capital Authority to oversee the new program with assistance from the Colorado Office of Economic Development and International Trade. The Authority will convert the premium tax credits to cash through a competitive bid process and then will use the cash to fund selected venture capital funds. A fund targeted to rural businesses will receive twenty five percent of the net cash proceeds and a fund targeted to businesses located throughout the state will receive seventy five percent of the net cash proceeds. The selected funds will make seed and early stage capital available to qualified Colorado businesses. It is expected that a large portion of this funding will go into the bioscience industry.

R&D STATE SALES TAX REFUND

Colorado bioscience companies doing research and development will receive a refund of state sales and use taxes paid on the sale, storage, use or consumption of tangible personal property to be used in Colorado directly and predominantly in research and development of biotechnology.

MANUFACTURING EQUIPMENT EXEMPTION

Bioscience companies purchasing manufacturing equipment and machine tools that cost over \$500 are exempt from state sales and use tax on these purchases. The following items are also exempt from state sales and use taxes: component parts, fuels and electricity, ink and newsprint, aircraft parts used in general maintenance, interstate long distance telephone charges, farm equipment and machinery and packaging materials.

ENTERPRISE ZONE TAX CREDITS

Bioscience companies located in an Enterprise Zone will receive the following tax credits:

- A \$500 tax credit for each new full time employee
- A \$2000 tax credit per new employee hired in an economically depressed rural area
- A \$200 tax credit during the first two years of operations for each full-time employee covered by health insurance
- An additional \$500 tax credit for each employee hired for agricultural processing or manufacturing
- A 3% investment tax credit for equipment purchased and used within the zone
- A 3% tax credit for expenditures on research and development
- A 10% tax credit for qualified job training within the enterprise zone

CONTACT INFORMATION

Colorado Office of Economic Development and International Trade

Christine Shapard, Biosciences and Emerging Technologies Director

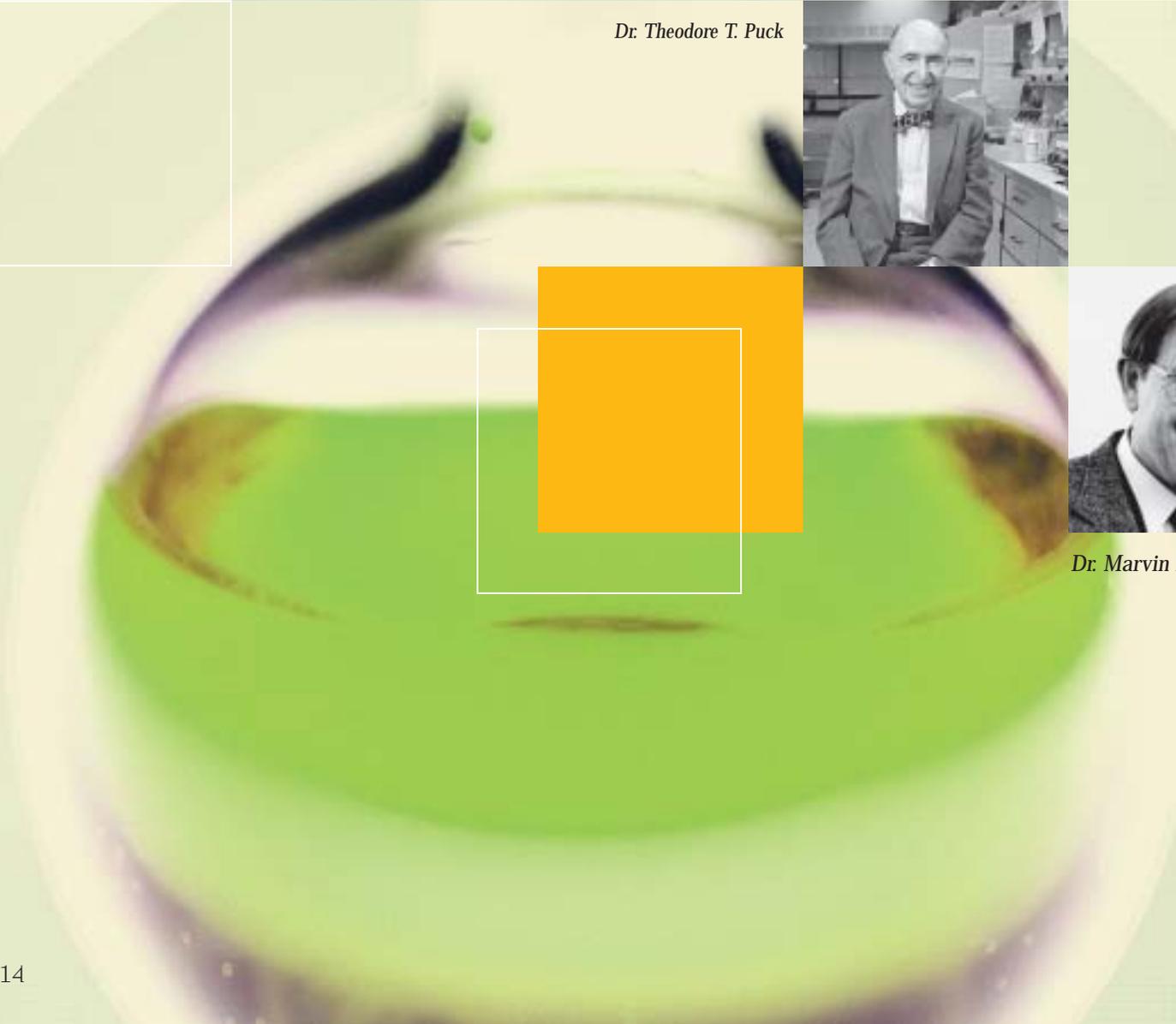
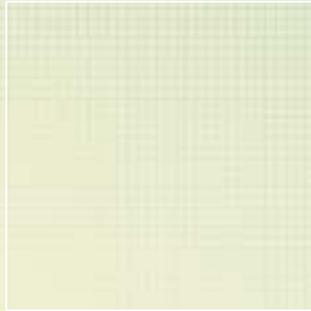
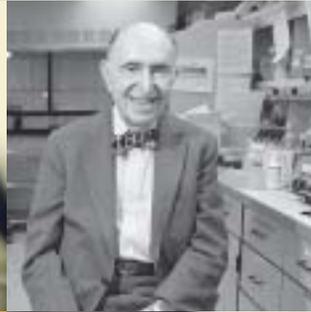
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Dr. Theodore T. Puck



Dr. Marvin H. Caruthers

Q COLORADO'S BIOSCIENCE Pioneer Spirit

by John Downs

The pioneer spirit that once prompted settlers to come to Colorado is kept alive by two generations of Colorado bioscience entrepreneurs. Colorado has a long history in bioscience that was key to the growth of this field and industry in the United States. Colorado researchers in the late 1940's helped create the science by connecting genetics and biochemistry. Later they provided key breakthroughs that formed the biotechnology industry in the early 1980s.

Opportunities in Colorado are exceptional for bioscience pioneers whether they are an individual or a company. The state is home to several nationally ranked universities and research laboratories. According to the Colorado Office of Economic Development and International Trade, Colorado ranks first among the fifty states and ten Canadian provinces for "economic freedom" at the state and local level—an important consideration for any biotechnology, pharmaceutical or medical device start-up or relocating company. The mountains, pleasant climate and natural beauty make the state a wonderful place to live. People love living and working here. All these factors make Colorado a unique place where bioscience students, scientists, entrepreneurs and businesses can thrive and contribute to two generations of world-class life science research.

Colorado's early contributions to bioscience came from the work of two brilliant scientific pioneers—Dr. Theodore T. Puck and Dr. Marvin H. Caruthers. Dr. Puck moved to Colorado in 1946 to become a professor and chairman of the newly formed Department of Biophysics at the University of Colorado (CU) School of Medicine. This was an opportunity for Dr. Puck to grow a new department from the ground up and he jumped on it. With an annual departmental budget of only \$5000, this pioneer taught a major course to medical students, instituted a biophysical science Ph.D. program and raised additional funding through grants. His department, including the laboratory and offices, was first housed in an old converted lumber

storage room in the basement of the medical school. From this unpretentious beginning, Dr. Puck was one of the first to connect genetics and biochemistry in mammalian cells.

According to Dr. Puck, up to the late 1940s, genetics was considered a separate field from medical science that focused on plant and animal breeding based on the discoveries by Mendel. When applied to animal and human matings, data accumulation was slow, expensive and uncertain. Dr. Puck was determined to further investigate the link between genetics and biochemistry started by the research of Beadle and Tatum. He was one of the first to see how these concepts when applied to human genetic biochemistry could result in revolutionary medical advances. He pioneered using somatic mammalian cells, rather than germ cells, to incubate human cells in cultures. His discovery enabled experimentation previously not possible in human genetics and biochemistry. Remarkably, Dr. Puck's early human genetics research was done on his own time. Funding was not available for human genetics from private or governmental organizations. It was too new and uncertain.

Dr. Puck organized the creation of the classification system by which all scientists study human chromosomes. The Denver Classification System was completed in 1960 and gives every indication of continued use today. What is extraordinary is all this work was done before chromosome banding was available so each chromosome length had to be painstakingly measured from its centromere. In 1961, the Eleanor Roosevelt Institute (ERI) was formed to allow Dr.

Puck to concentrate on his research, creating the only institute that Eleanor Roosevelt allowed to use her name. According to Matthew Yeingst, VP of Development, the Institute was founded on the belief that biomedical and genetic research is the most cost-effective, long-term approach to the eventual conquest of human afflictions like cancer, premature aging, birth defects and genetic diseases. At ERI, Dr. Puck pioneered the study of toxicity in chemotherapy and radiology by determining the amount of x-ray dosage needed to destroy cancer cells. His research is the basis for all radiation cancer treatment used today.

Today, this living legend maintains an active lab at Eleanor Roosevelt Institute at the University of Denver (ERI/DU) and currently works with the Centers for Disease Control on cancer prevention. In addition to his current appointment at ERI, Dr. Puck is a Distinguished Professor in the Department of Medicine at University of Colorado Health Sciences Center as well as a Research Professor in the Department of Biochemistry and Molecular Genetics for the University of Colorado Medical Center. Dr. Puck is particularly proud that many of his young protégés have become prominent scientists. Several have been inducted into the National Academy of Sciences of which he is also a member.

Another Colorado bioscience pioneer is Marvin H. Caruthers, Ph.D. Dr. Caruthers is a Distinguished Professor of Chemistry and Biochemistry at the University of Colorado. Dr. Caruthers is a renowned research scientist in the field of DNA synthesis and an inventor and multiple patent holder of key enabling techniques for the biotechnology industry. He joined the faculty of the University of Colorado in 1973. His early research focused on the synthesis of oligonucleotides, a chemically synthesized nucleic acid of any length.

In his article named, A Short History of Oligonucleotide Synthesis, Dr. Richard

Hogrefe, states that Dr. Caruthers worked out the solution to two major oligonucleotide problems—the swelling of the organic polymer supports and the instability of the phosphitylated active nucleoside intermediate. His breakthrough was to exchange one leaving group, a chloride, for another, an amine. This brilliant but subtle finding increased the stability of these molecules and led to the development of routine oligonucleotide synthesis processes. This technology was incorporated into “gene-machines” to synthesizing DNA used by biochemists, biologists, molecular biologists and biophysical chemists for research applications and pharmaceutical development.

At ERI, Dr. Puck pioneered the study of toxicity in chemotherapy and radiology by determining the amount of x-ray dosage needed to destroy cancer cells. His research is the basis for all radiation cancer treatment used today.

At about the same time, the Bayh-Dole act was signed into law allowing academic institutions to own and patent federally funded research. This gave Dr. Caruthers and other scientists with promising research access to capital to launch biotechnology companies. A new industry was created.

In 1980, Dr. Caruthers and several other research scientists founded Amgen. Amgen is now the largest biotechnology company in the world with revenues of \$8 billion. In 1981, he co-founded Applied Biosystems, Inc., to commercialize the chemical synthesis of nucleic acids and the sequencing of proteins. Applied Biosystems led the world in this field until acquired by Perkin Elmer Corporation in 1991 for \$450 million. More recently, Dr. Caruthers' research at CU focuses RNA synthesis and

various DNA analogs. His laboratory develops new chemistries for synthesizing biological molecules and then explores the potential biochemical uses of these new derivatives. This research led to a CU spin-off, Dharmacon, based in Colorado.

Drs. Puck and Caruthers came to Colorado about a generation apart and for different reasons. Both contributed tremendously to their adopted state and to the life sciences. When asked why they stayed, both stated Colorado's pioneering spirit, excellent research facilities and quality of life. They also mentioned they were given the flexibility to conduct their jobs and research as they saw fit. Dr. Puck, reminiscing about the group of scientists brought together from all over the world to develop the chromosome classification system in 1960, recalls the day off he gave to the team. He told them he would take them anywhere they wanted to go and to his surprise they responded they wanted to go to Buffalo Bill's grave west of Denver. Puck said that when the group drove up and stood over the grave many of the scientists got teary-eyed. As Karen Auge' states in her article in the Denver Post about Dr. Puck on June 15th, 2003, “to them, Colorado and Buffalo Bill represented the freedom, openness and potential of the West.”

Dr. Caruthers had a similar story. In the early 1980s when he was starting Amgen and Applied Biosystems, he would conduct classes at CU in the morning then fly to California for meetings in the afternoon. He was able to return to Boulder at the end of his day for dinner with his family. In other words, Colorado gave them flexibility and opportunity to be pioneers and great scientists within the confines of a beautiful and bountiful state.

Drs. Puck and Caruthers paved the way for others to follow. Drs. Carol and Thomas Cech came to Colorado together in 1978. CU was the only

university that found two Assistant Professor positions for these two outstanding scientists and the flexibility to allow spouses to have appointments in the same department. This was fortunate for the Cechs and Colorado because Thomas Cech received the Nobel Prize for Chemistry eleven years later for his discovery that RNA can catalyze chemical reactions. Over the last two years, Larry Gold, previously with CU's Department of Molecular, Cellular and Developmental Biology, spun off EyeTech Pharmaceuticals Inc., and SomaLogic based on the SELEX method for generating diverse pools of molecules developed at the University of Colorado. CU researchers Michael Bristow and Leslie Leinwand co-founded Myogen, which went public late last year. These scientist and others like them have contributed enormously to Colorado's biotech prowess.

Pioneers Puck and Caruthers came to Colorado to pursue bioscience and start

related industries. Since then Colorado has grown even more and continues to be a hotbed for bioscience research and development. According to the 2003 PriceWaterhouseCoopers MoneyTree Survey:

- Colorado companies outpaced the rest of the country in raising venture capital.
- The National Science Foundation ranks Colorado first in funding as a percent of Gross State Product (GSP).
- Colorado ranked second in number of new companies per 1,000 workers.
- Colorado ranked fourth for business starts per capita.
- Colorado ranked third in venture capital as a share of GSP.

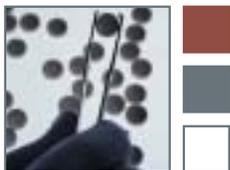
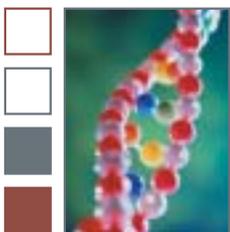
Clearly, Colorado is the best location if you are a bioscience scientist, start-up entrepreneur or business executive. Come participate in Colorado's long, proud history of embracing its brave, creative pioneers. ♦

John G. Downs is the principal of Downs Marketing, a Denver based business and marketing consulting firm.

THE COLORADO ADVANTAGE

Colorado has two of the world's fastest supercomputers – at NOAA and NCAR.

Of ten biotechnology IPOs last year, two Colorado companies went public. Myogen, Inc., and Pharmion Corporation raised \$73.3 million and \$76.2 million, respectively.



- Washington, DC
- New York
- Baltimore
- Northern Virginia
- Miami
- Los Angeles
- Denver**
- Boulder**
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In the rapidly evolving life sciences industry, companies face a broad spectrum of complex legal issues. To address these demands, Hogan & Hartson has built an integrated life sciences practice that extends beyond the traditional capabilities offered by most other firms. Our comprehensive industry knowledge, extensive global reach, and cross-disciplinary experience allow us to provide our clients with seamless legal services across multiple borders.

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What if cancer patients

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They can.

What if rheumatoid arthritis sufferers

were able to reduce their painful inflammation and regain many of their everyday routines?

They are.

What if health care providers

had the power to simplify the treatment of anemia?

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What if there was a company dedicated

to delivering new human therapeutics that can dramatically improve people's lives?

There is.

It's called Amgen.



Bioscience Real Estate Opportunity in Colorado



by Victoria David

Colorado has become one of America's premier regions for biotechnology, pharmaceutical, bio-agriculture, medical device and many other life science companies. Due to the large number of research institutes, Colorado is an attractive geographic area for any bioscience corporation to consider when selecting a location.

Institutes include the University of Colorado (CU), National Oceanic and Atmospheric Administration (NOAA), University Corporation of Atmospheric Research (UCAR), National Center for Atmospheric Research (NCAR), University of Colorado Health Sciences Center (UCHSC), Colorado State University (CSU), United States Department of Agriculture (USDA) and Centers for Disease Control (CDC). Colorado offers many facility and real estate options for companies wishing to launch research and development endeavors. Whether you need small incubator lab space, midsize research and development facilities, pilot plant or state of the art current Good Manufacturing Practice (cGMP) production space, Colorado has ample land available to meet the needs of any company.

Colorado's abundant labor and business resources, when combined with vast amounts of affordable land, makes the state an obvious choice for bioscience companies wanting to locate to the highly desired central region of the United States. The state is known for its exceptional living, working family environment and climate. These amenities comprise a surprisingly competitive and affordable alternative that promises a far superior quality of life than most other regions of the country.

The 127 mile Front Range of the Rocky Mountains is fast becoming a hot bioscience corridor and offers life science companies many location options. To the north, Fort Collins is a growing center for agri-science, animal husbandry, infectious disease, biodefense and related research. In the central region, the Boulder/Longmont area provides one of the highest concentrations of life science, pharmaceutical, biotechnology,

research and development, and related manufacturing and production facilities in the state.

Central Colorado, including metropolitan Denver, is home to a very impressive list of medical device and instrumentation companies. Metropolitan Denver offers Fitzsimons, the first university affiliated "biopark" to be developed west of the Mississippi and the newly proposed 160 acre BioScience Center at the Stapleton Business Park. Denver is also an energetic metropolis that provides all of the attractions of a modern city, while supporting an extremely high quality of life and an affordable standard of living.

In the southern region of the Front Range, Colorado Springs provides an excellent bioscience relocation alternative. The region has abundant supply of land, quality facilities, a pro-business environment and a highly skilled workforce.

In short, Colorado provides one of the country's most attractive business, economic, cultural, social, financial and real estate environments. The state offers an affordable environment where life science companies can thrive. Explore the many opportunities that are currently available for your company! ♦

Victoria David, AIA a principal at the Maynard/David Partnership. Brian Mulvaney is the National Coordinator of the CORFAC International Life Sciences Group. Charlie Lodge focuses on tenant representation at Bitzer Real Estate.

THE COLORADO ADVANTAGE

#4 in number of patents issued per 1000 workers.

Colorado companies outpaced the rest of the country in raising venture capital in 2003.

Ready, Set, Grow!

Infrastructure for Biosciences in Colorado

by Rhonda Wallen

While many states are newcomers to the biotech industry, Colorado has participated in bioscience innovation for over twenty years. The Centennial State is home to many bioscience companies and a well established infrastructure which supports continued growth. These resources include premier medical and research institutions, national law and accounting firms, venture capitalists and one of the most educated workforces in the nation.



The Colorado Front Range is home to a number of venture capital firms investing in bioscience. Managing \$410 million in capital, Sequel Venture Partners specializes in early stage funding for technology businesses in the Rocky Mountain region. Morgenthaler Ventures, a national firm with \$850 million in its latest fund, has an office in Boulder focusing on new biotechnology investments. Boulder Ventures, a national firm investing their fourth fund in technology businesses, also has offices in Boulder.

THE COLORADO ADVANTAGE

- #1 in National Science Foundation funding as a percent of Gross State Product
- #2 in number of new companies per 1,000 workers
- #3 venture capital as a share of Gross State Product (GSP)
- #3 in Small Business Innovative Research (SBIR) grants awarded per worker
- #4 business starts per capita

MoneyTree Survey, PriceWaterhouseCoopers

In addition to funding sources, several preeminent national and local specialty law firms reside in Colorado. Some of the nation's largest law firms have large patent and trademark practices in Denver focusing on patent prosecution, licensing and enforcement. Firms specializing in high technology intellectual property, food and drug, and medical device law also maintain offices in Denver. In addition to top law firms, KPMG, Ernst & Young, and PriceWaterhouseCoopers have local offices that offer accounting and management consulting services.

Colorado bioscience companies also have access to local medical device, biotech and regulatory consultants that have depth of expertise in medical device and biotechnology

product development. In addition, the state's economic development agencies have resources and strategies to assist companies as they expand or as they relocate to Colorado.

The Colorado bioscience community is represented by the Colorado BioScience Association (CBSA), which works to advocate for the industry on local and national legislative issues. The CBSA regularly convenes the bioscience industry through networking, educational, and technical programs and events. On behalf of the industry, CBSA serves as a lead agency in implementing initiatives identified in the 2003 "Action Plan to Grow Colorado's Bioscience Cluster." These initiatives include workforce, communications, technology transfer, financing, and related business climate issues. The Plan was commissioned by the Governor's Office and serves as a focal point to mobilize resources and actions to promote the growth of the industry.

Experienced and dedicated incubation facilities and resources are also available to start-up companies in Colorado. They are: CTEK Colorado with offices in Boulder and Longmont, Virtual Incubator located in Fort Collins and the Bioscience Park at Fitzsimons serving Denver/Aurora



start-ups. In addition, the Rose Biomedical Development Corporation provides comprehensive business support to early stage companies with promising medical device technologies.

Colorado's research base, funding sources, professional services, workforce and industry associations, along with the commitment of state and local governments, work in concert to enable bioscience companies to expand and grow in Colorado. With all of these elements in place it is no wonder that Colorado's Governor, Bill Owens declared, "Biotech grows best at high altitude." ♦

Rhonda Wallen is a Partner at Signet BioVentures in Boulder, Colorado.

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FITZSIMONS

A Life Sciences Community for the Future

by Mitzi Schindler

Within the city of Aurora, Colorado, another city is being built—from the ground up, called Fitzsimons. This “city within a city” is the largest medically related health sciences development in the nation and is called Colorado’s “square mile of life sciences.” By fostering amazing collaborative opportunities in research, education, patient care and community service, this visionary life sciences city promises to revolutionize healthcare and the bioscience industry.

Fitzsimons’ collaborative synergy comes from the integration of many outstanding and nationally recognized institutions/elements, including the University of Colorado Health Sciences Center (UCHSC), University of Colorado Hospital (UCH), the Fitzsimons Redevelopment Authority (FRA) and its Colorado Bioscience Park Aurora, The Children’s Hospital and the potential of the Veterans Administration/Department of Defense (VA/DOD) Federal Tower. Bringing these important entities together will improve research collaborations, clinical care and the transfer of ideas and advances from the laboratory to the hospital bedside.

For the University of Colorado (CU), the Fitzsimons opportunity came from the pressing need in the mid-1990s to expand its research and clinical facilities. The crowded

campus at East Ninth Avenue and Colorado Boulevard in Denver presented no potential for growth. As CU looked beyond the boundaries of the congested 46-acre campus, the Fitzsimons Army Medical Garrison in Aurora was being put on the Federal Government’s Base Realignment and Closure list.

Through a public benefit conveyance, CU received 227 acres of the 578-acre Fitzsimons site. That generous parcel of land now houses the new and rapidly growing campus of the UCHSC, slated for initial phase completion by 2007-2008. This first phase of the master-planned campus is estimated to cost \$1.3 billion – \$ 750 million for UCHSC and \$550 million for UCH. In addition, The Children’s Hospital and the VA/DOD will invest an estimated \$452 million and \$300 million, respectively.

To date, more than 1.6 million gross square feet of the new CU-Health Sciences Center and University of Colorado Hospital campus is completed with another nearly 2 million gross square feet under construction or in design phase. More than \$1 billion of the \$1.3 billion funding for the project has already been committed. Funding to move the two institutions is coming from several sources, including federal and state monies, loans and private gifts.

Adjacent and affiliated to this burgeoning academic medical campus is the 160-acre Colorado Bioscience Park Aurora. This research park will foster the commercialization of the innovations occurring on campus. Eighteen bioscience companies have already located in the research park.

The implications of the “square mile of life sciences” are astounding. Economic predictions alone estimate that by 2010, Fitzsimons will support more than 19,000 direct long-term jobs, another 23,000 indirect induced jobs and generate more than \$55 million of state corporate and personal income, sales taxes and motor vehicle registration fees. Local sales and use taxes are expected to be \$25 million. By 2010, economic activity spurred by the Fitzsimons site is expected to be \$3.1 billion.

In addition to the positive economic implications of the Fitzsimons project, the scientific implications related to education, research, patient care and biotechnology are staggering. With the nationally recognized UCHSC/UCH faculty, staff and administrators, Fitzsimons offers not only the much needed room for expansion of research labs, patient care facilities and schools, but it also allows an unprecedented opportunity to re-conceptualize how the institution’s mission and goals are met.

When the 600,000 gross square feet Research Complex 1 opens in June 2004, approximately 1,500 researchers and support staff will move into the 241 labs. In addition, the adjacent research facilities of the Colorado Bioscience Park Aurora create an incredible opportunity for public/private partnerships to take research discoveries from bench to bedside at an accelerated rate. According to a report by the consulting firm Ernst & Young, Colorado’s biotechnology industry is experiencing skyrocketing growth rates that far outpace other states.

Formal programs and informal daily encounters facilitate collaborations at Fitzsimons. Facilities, services and support give start-up and early stage bioscience companies the best possible opportunities to succeed. An affiliation agreement provides research park companies special consideration for access to university core labs and services. New buildings and development parcels in the research park can also

accommodate expansion-stage bioscience companies and pharmaceutical R&D operations within the campus setting.

From another perspective, Fitzsimons will truly be a “city within a city,” by incorporating a town center, the Fitzsimons Commons. This centrally located retail hub will accommodate workers, visitors and students on site. Amenities will include restaurants and retail stores, approximately 500 market-rate apartment units and a light rail stop connecting Fitzsimons to Denver International Airport, downtown Denver, and the Denver Tech Center. In addition, the site will include a hotel/conference facility, Class A office buildings and a City of Aurora Police station.

The Fitzsimons development is an amazing vision. The future of biomedical research, health professional education and 21st-century patient care are turning that vision into reality. ♦

Mitzi Schindler is the Director of Communications at the Fitzsimons campus of the University of Colorado Health Sciences Center (UCHSC) .



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Research Institutes

The University of Colorado

Boulder, Denver, Health Sciences Center, and Colorado Springs
www.cu.edu/techtransfer/

The University of Colorado (CU) capitalizes on its wealth of basic research expertise and facilities to support biotechnology collaborations across its four campuses. The Colorado Springs Campus is notable for expertise in metabolics and the Denver Campus for a strong computational biology program via the Center for Computational Biology.

At the University of Colorado the primary contributors to research in the biotechnology sector are the Boulder Campus and the Health Sciences Center in Denver (UCHSC). In 2003, CU raised over \$530 million in sponsored research funding. The UCHSC is relocating to the Fitzsimons campus along with the University of Colorado Hospital, The Children's Hospital, and numerous other centers and institutes such as the Webb-Waring Institute and the Barbara Davis Center for Childhood Diabetes.

Colorado State University

Fort Collins
www.csurf.org

Colorado State University (CSU), a regional and national leader in scientific discovery, generated approximately \$200 million in sponsored research activities in fiscal year 2004. CSU is designated by the Carnegie Foundation as being in the highest level of research classification: "Doctor/Research Universities – Extensive." CSU boasts strong programs in veterinary medicine, biotechnology, engineering, agriculture, and natural resources.

The CSU Center for Advanced Technology currently houses and attracts companies interested in collaborating with the university. It provides a physical location for companies and fosters mutually beneficial relationships between CSU's research programs and private industry. The Center is home to the Natural Resources Research Center campus where nearly 1,000 federal employees work. The James L. Voss Veterinary Teaching Hospital is also directly adjacent to the Center.

University of Denver

Denver
www.du.edu

University of Denver (DU) is the oldest independent university in the Rocky Mountain region. The Carnegie Foundation classifies DU as "Doctoral/Research University–Extensive." DU significantly enhanced its base of science research with the addition of the Eleanor Roosevelt Institute in 2003.

Colorado School of Mines

Golden
www.mines.edu

Colorado School of Mines (CSM) is 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.

University of Northern Colorado

Greeley
www.unco.edu

University of Northern Colorado (UNC) is a multipurpose institution with a wide range of graduate and undergraduate programs. The university's mission is to prepare individuals for advanced study, professional careers, and positions of leadership.

National Jewish Medical and Research Center

Denver
www.nationaljewish.org

National Jewish Medical and Research Center, the number one respiratory hospital in the United States, is also one of the most successful and influential independent biomedical research centers in the world. More than 100 faculty members conduct basic, translational, and clinical research in areas related to immunology, respiratory medicine, allergy, cancer, cell and molecular biology. National Jewish receives more than \$45 million in sponsored research support annually, and is among the top five percent of all institutions of all types receiving research support from the National Institutes of Health. Our success rate in grant applications to the NIH exceeds the national average by 19 percent. National Jewish ranks in the top 15 institutions worldwide for the impact of its research papers in the fields of Molecular Biology and Genetics, and Biology and Biochemistry. National Jewish researchers have been credited with several groundbreaking discoveries, including the IgE molecule, the T cell receptor, and superantigens.

National Jewish has also made substantial progress in growing an intellectual property portfolio and commercializing the discoveries of its world-class scientists. National Jewish manages a technology portfolio of more than 100 inventions and owns more than 50 issued US patents. It has entered into technology-related license agreements with 63 companies in the last 10 years, eight of them start-ups.



The Colorado BioScience Association (CBSA) is the industry organization for medical device, biotechnology, pharmaceutical, and agricultural biotechnology companies in Colorado. With over 250 members, the CBSA is a vital organization that convenes the industry through over 40 events and programs during the year. The Association advocates on behalf of the industry to create an optimal business climate for bioscience in Colorado. Important partnerships with research institutions, public agencies, economic development agencies and other business organizations are developed through CBSA's work on initiatives of critical importance to the industry.

For information contact:
Denise Brown
Executive Director, CBSA
dbrown@colobio.com

12635 East Montview Boulevard • Aurora, CO 80010
ph: 720-859-4153 • fax: 720-859-4110

www.CoBioScience.com

Denver Veterans Administration Medical Center

Denver
boris.draznin@med.va.gov

The Denver Veterans Administration Medical Center (VAMC) is nationally and internationally recognized for its long and productive record of conducting high quality basic science and clinical research. Over forty Denver VAMC physicians and Ph.D. scientists annually conduct more than 450 research studies with total research expenditures at over \$17 million. Many VAMC scientists are internationally acclaimed experts in their respective fields. All scientists have academic appointments with the University of Colorado Health Sciences Center.

The VAMC pioneered medical advances in liver transplantation and renal dialysis. Led by Drs. Robert Freedman and Sherry Leonard, today, the Denver VAMC houses the VA National Schizophrenia Research Center. This Center explores genetic and molecular biology of certain brain processes involved in the development of this mental disease. The Federal government funds VAMC Drs. Tyler, Heidenreich and Wierman to conduct research in neurodegenerative disorders, such as Parkinson's disease, and brain development. Also, the VAMC manages nineteen national co-operative studies or multi-center clinical trials. One of them, examining vital aspects of coronary artery bypass surgery, has its national coordinating center in Denver.

University of Colorado Hospital

Denver
www.uchsc.edu

As the flagship teaching and research hospital in the Rocky Mountain Region, the University of Colorado Hospital advances health knowledge through research and patient care. Strong research programs in immunology, cancer, neurosciences, drug and alcohol addiction, and in all areas of biomedical

science are evidenced by over 3,000 approved clinical trials.

The Children's Hospital Research Institute

Denver
www.uchsc.edu/peds/research/ri/

The Children's Hospital Research Institute (TCHRI) consistently rates as one of the country's top ten percent federally funded pediatric research programs. TCHRI has achieved many firsts, including performing pediatric liver transplants, intrauterine surgery, identifying causes of toxic shock syndrome, using nitric oxide for pulmonary hypertension, and describing child abuse medical consequences. Current research focuses include developmental biology, obesity, outcomes research, experimental therapeutics and clinical trials organization.

Eleanor Roosevelt Institute at the University of Denver

Denver
http://www.nsm.du.edu/eri/

The Eleanor Roosevelt Institute (ERI) was founded on the belief that biomedical and genetic research is the most effective, long-term approach to the eventual conquest of human disease. The ERI has been at the center of genetic research since 1961. An ERI scientist, Dr. Theodore Puck, a living legend in the field of genetics and biomedical research, created somatic cell genetics, introduced the human cell growth culture incubator technique, and organized the creation of the classification system by which all scientists study chromosomes. Many of Dr. Puck's discoveries make modern molecular genetics possible. ERI's research accomplishments continue with the sequencing of chromosome 21, developing the most sensitive environmental agent toxicity test, determining the lethal levels of x-rays for human cells and participating in the discovery of genes related to colon cancer, Lou Gehrig's disease, leukemia, heart disease and Alzheimer's disease.

Technology Transfer

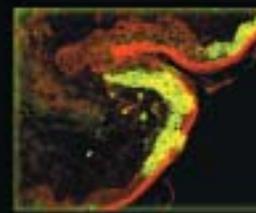
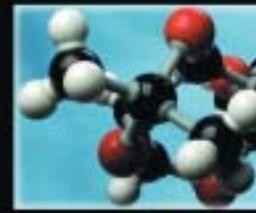






"One of the ways that a research university provides a direct return on society's investment is via technology transfer. Colorado State University, in close partnership with Colorado State University Research Foundation, and others, provides an opportunity for our faculty and industry to collaborate and develop commercially viable technologies which reach across the full breadth of the university's research portfolio."

Tony Frank
Vice President for Research and Information Technology



CSURF
Technology Transfer Office
P.O. Box 483, Fort Collins, Colorado, 80522
970.482.2918

Vice President for Research and Information Technology
201 Administration Building
970.491.7194



Colorado State University
Knowledge to Go Places

AMC Cancer Research Center
Lakewood
www.amc.org

AMC is a national, not-for-profit research institute dedicated to the prevention and control of cancer and other chronic diseases. AMC is conducting innovative and important research in the areas of cancer causation and prevention, behavioral research, nutrition, clinical and community studies and health communication.

Laboratories At Bonfils
Denver
www.bonfils.org

Laboratories At Bonfils has earned a national reputation as a reference testing lab in core areas of transplant immunology, infectious disease serology and microbiology, offering more than 400 tests. These labs are affiliated with the nationally renowned Bonfils Blood Center.

Division of Vector-Borne Infectious Diseases
Fort Collins
www.cdc.gov/ncidod/dvbid/

Division of Vector-Borne Infectious Diseases is part of the Centers for Disease Control and Prevention (CDC). The CDC is recognized as the lead federal agency for protecting the health and safety of people at home and abroad. The Division of Vector-Borne Infectious Diseases serves as a national and international reference center for vector-borne viral and bacterial diseases.

National Renewable Energy Laboratory – National Bioenergy Center
Golden
<http://www.nrel.gov/biomass/>

The National Bioenergy Center, housed at the National Renewable Energy Laboratory (NREL), develops biological, chemical, and thermochemical technologies that produce economic and environmental sensitive fuels, chemicals, fibers and plastics from grasses, trees, organic wastes and other renewable biomass resources. The Center cooperates with private industry, National Renewable Energy and Department of Energy laboratories to develop profitable “biorefinery” business models based on this new technology.

National Institute of Standards and Technology
Boulder
www.nist.gov

The National Institute of Standards and Technology (NIST) is a non-regulatory federal agency that operates eight different science and advanced technology research divisions in Colorado. Celebrating a fifty-year legacy, NIST’s list of research accomplishments includes a NIST senior scientist winning the Nobel Prize in 2001 for creating the world’s first “Bose-Einstein condensate.” In 2003, another NIST scientist won a MacArthur Fellowship for discovering a new quantum gas and was named by Science as one of the top ten scientific advances of the year. Current research focuses on single molecule manipulation that has future forensic research and DNA testing applications.

United States Geological Survey - Center for Biological Informatics
<http://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.



Bioscience Companies

BIOTECHNOLOGY/PHARMACEUTICAL

Accelr 8 Technology Corporation www.accelr8.com
Denver

Accelr 8 Technology Corporation's proprietary surface chemistry and its quantitative instruments support real-time assessment of medical diagnostics, food-borne pathogens, water-borne pathogens and bio-warfare assessments.

Accera, Inc. www.accerapharma.com
Broomfield

Accera, Inc., pursues new therapeutic approaches to the treatment and cure of Alzheimer's Disease based upon neuronal cell energy metabolism. The Company's products and services evolve from its proprietary metabolism platform.

Advanced Nutraceuticals, Inc. www.advancednutraceuticals.com
Denver

Advanced Nutraceuticals, Inc., manufactures capsule form blended vitamins and nutritional supplements plus liquid and powder pharmaceutical products.

Affinity Bioreagents, Inc. www.bioreagents.com
Golden

Affinity BioReagents offers primary and secondary antibodies, proteins, peptides and viral expression kits. The Company also creates custom antibodies to meet specific research needs.

Agripro Wheat www.agriprowheat.com
Berthoud

AgriPro Wheat leads the way in the development and delivery of superior wheat seed genetics in North America.

Allos Therapeutics, Inc. www.allos.com
Westminster

Allos Therapeutics, Inc., develops small molecule, non-protein drugs for improving cancer treatments. By increasing tumor oxygenation, the Company's products enhance the efficacy of standard radiation therapy and certain chemotherapeutic drugs.

AlloSource www.allosource.org
Englewood

AlloSource responsibly develops, processes and distributes life-enhancing bone and tissue allografts to the medical community.

Alpharma, Inc. www.alpharma.com
Longmont

Alpharma Inc., is the largest manufacturer of generic liquid and topical pharmaceuticals in the U.S. The Company is also one of the largest suppliers of generic pharmaceuticals in selected European markets.

American Allied Biochemical, Inc. www.aablabs.com
Aurora

American Allied Biochemical, Inc., specializes in the purification and distribution of restriction endonucleases.

Amgen, Inc. www.amgen.com
Longmont

Amgen, Inc., is a global biotechnology company that discovers, develops, manufactures and markets human therapeutics based on advances in cellular and molecular biology.

Amidex, Inc. www.amidexmedical.com
Lakewood

Amidex, Inc., manufactures the Amilyser™, which collects non-volatile aerosols from exhaled breath and produces the first result within five minutes, then continues to monitor breathing circuits to provide time-resolved trends of analytes.

Animal Health Options www.animalhealthoptions.com
Golden

Animal Health Options offers high quality nutritional supplements that meet or exceed industry standards and provide a noticeable benefit to dogs, cats and horses.

Aquatic BioSystems, Inc. www.aquaticbiosystems.com
Fort Collins

Aquatic BioSystems, Inc., grows and distributes freshwater and marine organisms for aquatic toxicology, biomonitoring and other research activities.

ARCA Discovery michael.bristow@uchsc.com
Aurora

ARCA Discovery conducts contract research specialized in biopharmaceutical drug development in the field of heart failure.

Array Biopharma, Inc. www.arraybiopharma.com
Boulder

Array BioPharma integrates the latest advances in chemistry, biology and informatics to create orally active drugs for cancer and inflammatory disease. Array also collaborates with others to invent and optimize drug candidates across many therapeutic areas.

AspenBio, Inc. www.aspenbioinc.com
Castle Rock

AspenBio, Inc., develops proprietary products to the point of introduction and then seeks pharmaceutical company partners. Current candidates include human and animal proteins and hormones.

Atrix Laboratories, Inc. www.atrixlabs.com
Fort Collins

Atrix Laboratories, Inc., with five patented drug-delivery technologies, is developing a portfolio of products for oncology, dermatology, pain management and growth hormone releasing applications.

Aurogen, Inc. www.aurogen.com
Fort Collins

Aurogen, Inc., offers newly patented pharmaceutical treatment for diabetic neuropathy.

Avidity www.avidity.com
Denver

Avidity holds exclusive rights to the patented biotin-accepting peptides (AviTag) technology that exploits the tight interaction of avidin or streptavidin with biotin for immobilizing, purifying and visualizing proteins.

Barofold, Inc. lhesterber@aol.com
Aurora

Barofold, Inc., acquired exclusive rights to a patented protein dis-aggregation and re-folding technology invented by Drs. Randolph and Carpenter at the University of Colorado in May 2003.

Biologix, Inc. jnathanson@biologix.com
Denver

Biologix, Inc., breeds insects for pest control.

BioResponse LLC www.bioresponse.com
Boulder

BioResponse is an innovator and leader in nutrient delivery technology. Most recently, BioResponse was awarded a patent for its delivery system for highly-absorbable ("bioavailable") Diindolylmethane.



Blue Sun Biodiesel www.gobluesun.com
 Fort Collins
 Blue Sun Biodiesel produces high-performance biodiesel fuel from oilseed energy crops well-adapted to the hot, arid growing conditions of the High Plains.

Boulder Scientific Co. www.bouldersci.com
 Mead
 Boulder Scientific produces pharmaceutical intermediates, metallocenes, boron compounds and custom chemicals.

Brotica, Inc. www.brotica.com
 Fort Collins
 Brotica produces Interval 33 a termite attractant based on patent pending technology developed at Colorado State University.

CAP Biotechnology, Inc. www.capbio.com
 Golden
 Cap Biotechnology, Inc., produces calcium phosphate hollow microspheres and custom shaped calcium phosphate materials useful for tissue banks and research applications.

Cardinal Health www.cardinal.com/nps
 Golden
 Cardinal Health offers the latest in imaging agents and radiopharmaceutical containers for the nuclear pharmacy.

CeMines www.cemines.com
 Evergreen
 CeMines developed its breakthrough Molecular FingerPrinting™ blood test for the early-detection of a variety of cancers and other immune diseases.

Chemins Company, Inc. www.chemins.com
 Colorado Springs
 Chemins produces a wide range of dietary supplements including caplets, tablets, shaped tablets, chewable wafers, two-piece capsules and powdered products.

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

Colorado Serum, Inc. www.colorado-serum.com
 Denver
 Colorado Serum, Inc., supplies veterinary biologicals, instruments, laboratory reagents and serums for the veterinary industry.

Cytoskeleton, Inc. www.cytoskeleton.com
 Denver
 Cytoskeleton supplies pharmaceutical services, drug discovery and contract services.

DakoCytomation Colorado www.dakocytomation.com
 Fort Collins
 DakoCytomation designs and manufactures high-performance cell analyzers and sorters for use in biomedical research.

Dharmacon, Inc. www.dharmacon.com
 Lafayette
 Dharmacon develops 2'-ACE RNA and other RNA oligo-dependent applications and technologies. Dharmacon technology is superior to all other synthesize RNA products currently on the market.

DMI Biosciences, Inc. www.dmbiosciences.com
 Englewood
 DMI BioSciences, Inc., develops small molecule, peptide-based pharmaceuticals and biomarkers for acute and chronic inflammation.

DNA-IntelliGen Corporation benmorales@adelphia.net
 Monument
 DNA IntelliGen develops and applies current biometric technology into security products designed to thwart identity theft, to provide more robust personal security and to secure financial transactions.

Efficas, Inc. www.efficas.com
 Boulder
 Efficas is an early stage biotechnology company that discovers and markets natural bioactives destined for inclusion in functional and medical foods, dietary supplements, pet products and cosmeceuticals.

ELISA Tech www.elisatech.com
 Aurora
 ELISA Tech supplies immunoassays for the measurement of cytokines, growth factors and lipid inflammatory mediators such as prostaglandins and leukotrienes.

Emergent Genetics, Inc. www.emergentgenetics.com
 Boulder
 Emergent Genetics is a seed and biotechnology company with operations in the U.S., Europe and India that strategically focuses on cotton, rice, wheat and vegetables.

Evergreen Research, Inc. www.evergreenresearch.com
 Golden
 ERI performs contract product development with an emphasis on medical devices.

Evolutionary Genomics www.evolgen.com
 Aurora
 Evolutionary Genomics (EG) has developed a unique, cost-effective fully operational, patented, gene discovery technology platform, named the Adapted Traits Platform. EG has been successfully identifying genes for four years.

Gene Check, Inc. www.genecheck.com
 Fort Collins
 Gene Check produces reagents and kits for research and offers veterinary genotyping tests for animals.

Genethera, Inc. www.genethera.com
Wheatridge
 GeneThera, Inc., provides genetics-based diagnostic and vaccine solutions to meet the growing demands of today's veterinary industry and tomorrow's agriculture and healthcare industries.

Genetic Technologies Limited www.gtg.com.au
Fort Fitzroy
 Genetic Technologies focuses its research efforts on the non-coding DNA sequences of the human HLA Gene complex to improve the survival rates of bone marrow transplants and other future cellular transplants from one human donor to another human recipient.

Global Peptide Services LLC www.globalpeptide.com
Fort Collins
 Global Peptide Services offers peptides from 70% purity up to greater than 95% HPLC purity with a quality guarantee.

GlobeImmune, Inc. www.globeimmune.com
Aurora
 GlobeImmune, Inc., is currently developing products to treat HIV, hepatitis C, and a number of cancers that traditionally were unapproachable. Company's products are based on its immunotherapy platform technology.

Gonex, Inc. www.instantweb.com/p/pjarosz/index.htm
Boulder
 Gonex develops compounds that pharmaceutically sterilize any animal with one injection. From this research, the company is investigating treatment of hormone sensitive cancers in humans such as prostate and breast cancers.

Gynelogix, Inc.
Louisville
 Gynelogix, Inc. is currently in clinical trials for vaginal suppositories to treat recurrent urinary tract infections in women.

Hauser Laboratories www.hauserlabs.com
Boulder
 Hauser Laboratories provides testing services to the pharmaceutical, natural products, dietary supplement, medical device, legal and insurance, consumer and industrial industries.

HemoGenix www.hemogenix.com
Colorado Springs
 HemoGenix is paving the way with new, innovative, and novel biotechnology to reduce toxicity and improve efficacy of cancer therapeutics.

Heska Corporation www.heska.com
Fort Collins
 Heska produces vaccines, dietary supplements, allergy medications and medical devices for the veterinarian market. The Company has also initiated clinical trials designed to assess the ability of a gene-based therapy to cause remission of soft tissue sarcomas and oral melanomas in dogs.

Hirsh Precision Products, Inc. www.hppi.com
Boulder
 Hirsh Precision Products, Inc., manufactures components that repeat and have stringent cosmetic and dimensional requirements. Industries served include Medical, Automotive, Communications and Instrumentation.

IHCtech Histology Services pruegg@msn.com
Aurora
 IHC t e c h offers quality tissue preparation and histology services.

Innovative Histology elizabeth.smith@ushsc.edu
Aurora
 Innovative Histology specializes in tissue processing for un-decalcified tissues and bone.

International Approvals Laboratories (IA Labs) www.ialabs.com
Boulder
 IA Labs is the leading Electromagnetic Interference and Electromagnetic Compatibility testing laboratory in the Rocky Mountain region.

Invenux, Inc. www.invenux.com
Denver
 Invenux, Inc., utilizes its Evolutionary Chemistry™, an integrated drug discovery process, to accelerate drug discovery by selecting the most promising leads from among millions of compounds.

Ischemia Technologies www.ischemia.com
Arvada
 Ischemia Technologies researches, designs, manufactures and distributes products that help identify the presence of Ischemia in patients with chest pain in hospital emergency rooms. The Company's products are in vitro-diagnostic markers.

Isogenis, Inc. www.isogenis.com
Denver
 Isogenis, Inc., develops revolutionary therapies for organ transplantation and genetic disease. Its Transplantation Tree™ technology facilitates the engraftment of foreign tissues, organs, and gene products in a manner less toxic to the patient.

Johnson and Johnson www.jnj.com/home
 Johnson & Johnson operating companies manufacture and market thousands of products that cover a wide range of diseases and conditions.

Kerr Group, Inc. www.kerrgroup.com
Denver
 Kerr Group, Inc., leads the child-resistant and tamper-evident closure industry. The Company has strong market positions in the pharmaceutical, prescription drug and distilled spirits industries.

Keystone Biomedical, Inc. www.keystonebio.com
Westminster
 Keystone Biomedical, Inc., is engaged in advancing its Bucillamine and Exochelin product platforms for the treatment and prevention of cardiovascular disease.

Kimball Genetics, Inc. www.kimballgenetics.com
Denver
 Kimball Genetics, Inc., is nationally recognized for genetic consultation.

Laboratories At Bonfils www.labsatbonfils.com
Denver
 Laboratories At Bonfils (L.A.B.) focuses on performing complex, esoteric assays. L.A.B.'s desires to be the market leader in laboratory testing for infectious disease markers, microbiology and immunogenetics.

Macleod Pharmaceuticals, Inc. www.macleodpharma.com
Fort Collins
 Macleod Pharmaceuticals, Inc., produces UNIPRIM™ Powder an oral equine bacterial infection treatment.

Martek Biosciences Corporation www.martekbio.com
Boulder
 Martek Biosciences Corporation manufactures and sells products developed from microalgae.

- Mayne Pharma, Inc.** www.maynepharma.com/us
 Boulder
 Mayne Pharma, Inc., a Mayne Group Limited Company, is a supplier of multi-source injectable pharmaceuticals.
- Mediral International, Inc.** www.mediral.com
 Denver
 With over 3,000 mother tinctures and ingredients in stock, Mediral International Inc., provides the highest quality natural products to healthcare professionals.
- Medivance, Inc.** www.medivance.com
 Louisville
 Medivance's patented Arctic Sun Temperature Management System represents a new generation of noninvasive and safe temperature management systems.
- MicroPhage Incorporated** www.micro-phage.com
 Boulder
 MicroPhage manufactures patented high-speed bacteria detection technologies with applications in the food, water and environment contamination, human and animal infectious agent evaluations, industrial pathogens and biological warfare.
- Molecular Biosciences, Inc.** www.molbio.com
 Boulder
 Molecular Biosciences, Inc., is a major, domestic manufacturer of products used primarily to investigate cellular function and homeostasis mechanisms.
- Monsanto** www.monsanto.com
 Englewood
 Monsanto Company, together with its subsidiaries, is a global provider of agricultural products and integrated solutions for farmers.
- Mycologics, Inc.** claude.selitrennikoff@uchs.edu
 Aurora
 MycoLogics, Inc., focuses on infectious human fungal diseases. The company's mycotechnology will be used to discover novel drugs that act by directly inhibiting fungal cell-wall assembly.
- Mycos Research, LLC** www.mycosresearch.com
 Fort Collins
 Mycos Research provides mycobacterial derived biochemicals to the research community, animal models for tuberculosis and other BSL3 organisms, and novel mycobacterial infection monitoring and vaccine products.
- Myogen, Inc.** www.myogen.com
 Westminster
 Myogen, Inc., is a biopharmaceutical company focused on the discovery, development and commercialization of small molecule therapeutics for the treatment of cardiovascular disorders.
- NaPro BioTherapeutics, Inc.** www.naprobio.com
 Boulder
 NaPro BioTherapeutics, Inc., develops and licenses anti-cancer agents and offers genomic therapies based on its proprietary gene editing technology.
- Newellink, Inc.** mnewell@uccs.edu
 Colorado Springs
 Newellink, Inc., with its multidisciplinary platform approach to understanding cellular metabolism and cellular communication, will produce or license biopharmaceuticals to treat or cure major diseases.
- Novus Biologicals, Inc** www.novus-biologicals.com
 Littleton
 Novus Biologicals, Inc., carries an extensive line of monoclonal and polyclonal antibodies for the study of DNA repair, cancer, neuroscience, lipid, circadian rhythm, apoptosis and other research areas.
- Nurture, Inc.** www.nurture-inc.com
 Denver
 Nurture, Inc., develops and markets a proprietary technology that produces high value-added ingredients derived from oats and other cereal grains.
- Nutraceutix, Inc.** www.nutraceutix.com
 Lafayette
 Nutraceutix, Inc., manufactures probiotics, develops proprietary nutritional product formulations, and offers specialty nutraceutical ingredients, including several that utilize CDT™ technologies.
- Origin USA, LLC** www.originpharm.com
 Boulder
 Origin USA offers expert support in regulatory affairs, project management and strategic drug development, soon to be joined by clinical services focused on early-phase development.
- OSI Pharmaceuticals, Inc.** www.osip.com
 Boulder
 OSI Pharmaceuticals, Inc., focuses on the discovery, development and commercialization of high-quality, next-generation oncology products that both extend and improve the quality-of-life for cancer patients around the world.
- Paxis Pharmaceuticals, Inc.** www.paxispharma.com
 Boulder
 Paxis Pharmaceuticals, Inc., produces Paclitaxel under FDA approved GMP's. Paclitaxel is the leading chemotherapy drug in the U.S. market for the treatment of Breast and Ovarian cancers.
- Pfizer, Inc.** www.pfizer.com
 Centennial
 Pfizer Inc., is a research-based, global pharmaceutical company. The Company discovers, develops, manufactures and markets prescription medicines for humans and animals, as well as many consumer products.
- Phaelix Healthcare Resource** phae@phaelix.com
 Castle Rock
 Phaelix conducts custom research projects for the medical industry and specializes in emerging medical technologies and startups, with current focus on imaging, nanobiotechnology, tissue engineering and telemedicine.
- Pharmatech, Inc.** www.pharmatech.com
 Denver
 Pharmatech, Inc., is the only Research Management Organization in the industry that manages pharmaceutical, medical device, biotechnology and pharmacoeconomic trials.
- Pharmion Corporation** www.Pharmion.com
 Boulder
 Pharmion develops and markets hematology and oncology products that expands the therapeutic options available to healthcare providers and their patients.
- Phasics BioScience, Inc.** www.phasicsbio.com
 Castle Rock
 Phasics BioScience, Inc., offers funded biotechnology companies process development services and scalable manufacturing facilities. The company also provides recombinant protein for preclinical and clinical trials of therapeutic drugs.

PhosphoSolutions

Michael.Browning@uchsc.edu

Aurora

PhosphoSolutions focuses on phosphoproteins – the “verbs” of the proteomics language. The company produces and distributes custom phosphospecific antibodies for research, diagnostic and therapeutic applications.

Pisces Molecular

www.pisces-molecular.com

Boulder

Pisces Molecular offers fish based health and biotechnology products.

PR Pharmaceuticals

www.prpharm.com

Fort Collins

PR Pharmaceuticals is an innovative drug delivery company whose product PRP™ is a sophisticated, controlled-release technology for human and animal applications.

Premier Histology Laboratory, LLC

www.premierhistology.com

Boulder

Premier Histology provides histological services to pharmaceutical and biotechnology researchers studying the performance of therapeutic agents.

Pro-Safe Products

www.prosafeproducts.com

Grand Junction

Pro-Safe Products offers a complete line of infection control products for the dental and medical specialties.

Progenity, Inc.

www.progenity.com

Denver

Progenity, Inc., is a custom Contract Manufacturing Organization that supplies high-quality protein-based therapeutics to the biopharmaceutical industry.

Proligo LLC

www.proligo.com

Boulder

Proligo manufactures DNA and RNA oligonucleotides and other specialty products to meet your research needs.

Pyxant Labs, Inc.

www.pyxant.com

Colorado Springs

Pyxant Labs, Inc., is a contract research laboratory specializing in GLP bioanalytical chemistry for life sciences clients.

Replidyne, Inc.

www.replidyne.com

Louisville

Replidyne is a drug discovery company focused on identifying and developing drugs to treat serious infectious diseases. Replidyne develops novel antibacterial drugs that act by directly inhibiting bacterial DNA replication.

RMC Software

www.rmsoft.com

Fort Collins

RMC Software offers expert services in the following areas: Molecular Modeling, Computer Aided Drug Design, Protein-Ligand Docking Models, Drug Bioavailability Models, Drug Bioactivity Models and high-performance computing.

Roche Colorado Corp.

www.rochecolorado.com

Boulder

Roche Colorado manufactures bulk pharmaceutical intermediates and active ingredients for prescription and over-the-counter medicines. These compounds are sent to other manufacturing sites for formulation into finished pharmaceutical products.

Rocky Mountain Biosystems, Inc. (RMBI)

kmarchitto@biofusionary.com

Golden

RMBI's proprietary systems modify tissues for transdermal and deposition drug delivery. Its Biofusionary™ subsidiary develops tissue fusion technology that closes surgical incisions without the use of sutures or staples.

Rocky Mountain Reagents, Inc.

www.rmreagents.com

Denver

Rocky Mountain Reagents™, Inc., repackages large volume chemicals into economical, functional product sizes. Offerings include titration reagents, indicators, acids, bases and other chemicals for life science research.

Rxkinetix, Inc.

www.rxkinetix.com

Louisville

RxKinetix, Inc., is a specialty pharmaceutical company that uses proprietary drug delivery technologies to develop new medicinal products.

Sandoz, Inc.

www.us.sandoz.com

Broomfield

Sandoz is one of the largest manufacturers of generic pharmaceutical products in the United States.

Sentry Biosciences, LLC

randy@swensonmanagement.com

Boulder

Sentry Biosciences, LLC, is an emerging biosciences company that discovers and develops compounds that regulate the process of programmed cell death (apoptosis). Apoptosis has been implicated in fifty percent of human diseases, including cancer, neurodegenerative disease, and autoimmune disease.



Sirna Therapeutics www.sirna.com
Boulder
Sirna Therapeutics is a leading developer of therapeutics based RNA interference (RNAi) technology that selectively targets disease-causing genes and viruses.

SomaLogic, Inc. www.Somallogic.com
Boulder
SomaLogic, Inc., develops proteomics tools based on its proprietary aptamer technology to produce Aptamer chips that allow simultaneous protein quantitative measurement and the rapid development of novel assays for individual proteins.

Source Precision Medicine www.sourcemedicine.com
Boulder
Source Precision Medicine is the first company to commercially introduce a fully integrated, high-precision molecular system to precisely track disease and human therapeutic response at the cellular level.

STA Laboratories www.stalabs.com
Longmont
STA Laboratories offers a wide range of seed quality testing services.

Toltec International, Inc. www.toltecing.com
Lakewood
Toltec International, Inc., provides project management, real-time embedded software and hardware services to medical device companies.

Touch of Life Technologies vic.spitzer@uchsc.edu
Aurora
Touch of Life Technologies is a early stage company that commercializes scientific applications based on advances in human anatomy simulation.

Transgenomic, Inc. www.transgenomic.com
Boulder
Transgenomic, Inc., provides products and services for the synthesis, purification and analysis of nucleic acids around three core competencies: separation chemistries, enzymology and nucleic acid chemistries.

Unigen Pharmaceuticals www.unigenpharma.com
Broomfield
Unigen Pharmaceuticals is a leading supplier of proprietary natural ingredients. The Company also conducts natural products research and development.

Vitro Diagnostics, Inc. www.vitrodiag.com
Littleton
Vitro Diagnostics' VITROCELL™ product line consists of proliferating human cell lines suitable for diabetes, pancreatic cancer and endocrinology of the pituitary gland research.

Vitrolife, Inc. www.vitrolife.com
Englewood
Vitrolife, Inc., develops, produces and markets a range of high-quality products and systems for the preparation, cultivation, preservation and support of cells, tissues and organs.

Xtrana Inc. www.Xtrana.com
Broomfield
Xtrana, Inc., develops and commercializes technologies to simplify the analysis of DNA and RNA, so that nucleic acid-based detection systems can be utilized in point-of-care applications.

XY, Inc. www.xyinc.com
Fort Collins
XY, Inc., develops technologies for sex selection in animals. Using flow cytometry, sperm from breeding animals is sorted into X-chromosome, and Y-chromosome bearing populations, allowing the selection of sex prior to artificial insemination or in-vitro fertilization.

ZeoponiX, Inc. www.zeoponix.com
Boulder
ZeoponiX, Inc., has taken plant growth media based on NASA technology and markets ZeoPro™ which is a combination growth medium/fertilizer/soil amendment. The Company has exclusive marketing rights to this NASA technology.

MEDICAL DEVICES

Able Planet, Inc. www.ableplanet.com
Fort Collins
Able Planet's technology creates a wireless link between a hearing aid's T-coil and a phone or headset improving sound clarity for the hearing impaired.

Aesthetic Technologies, Inc. www.parisianpeel.com
Broomfield
Aesthetic Technologies, Inc., produces Parisian Peel® Prestige™ Medical Microdermabrasion System which is a powerful but gentle anti-aging procedure that exfoliates, refreshes and renews skin.

AgriHouse, Inc. www.agrihouse.com
Berthoud
AgriHouse, Inc., allows the grower in a controlled indoor environments to produce high quality vegetables, gourmet plants and flowers in volume.

AKTIV-DRY www.aktiv-dry.com
Boulder
AKTIV-DRY provides dry powder processing solutions for the vaccine, pharmaceutical and biotechnology companies.

Allpro, Inc. www.allpro dental.com
Broomfield
Allpro, Inc., manufactures high quality dental products at an affordable price.

Animark, Inc. www.animark.us
Aurora
Animark Inc., has been a leader in the electronic breeding equipment business for over 30 years.

Applied X-Ray Technologies, Inc. www.huestismedical.com
Denver
Applied X-Ray Technologies, Inc., manufactures irradiation equipment.

Auri-Stim Medical, Inc. www.net1device.com
Denver
Auri-Stim Medical's NET-1™ device produces electrical signals to electrodes connected to the outer ear to treat patients for migraine, hormonal, chronic headaches, premenstrual syndrome, nicotine and narcotics addictions.

Baxa Corporation www.baxa.com
Englewood
Baxa was founded to focus on the needs of hospital pharmacists – from the pharmaceutical company to the patient – by facilitating the handling, packaging and administration of liquid medications.

Bell Dental Products LLC www.bell dental.com
Denver
Bell Dental Products designs, develops, and manufacturers precision equipment based on electric motor technology for the aerospace, medical, and dental industries.

BioFeedback Systems, Inc. www.users.qwest.net/~pitchj/
Boulder
Bio-Feedback Systems, Inc., is a high tech self-help medical device company.

Biotrol International www.biotrol.com
 Louisville
 Biotrol International, Inc., manufactures and markets effective surface disinfectants, instrument cleaners/disinfectants and vacuum line cleaning systems for the dental professional.

Braun BioSystems Centennial www.braunbiosystems.com
 Centennial
 Braun BioSystems has developed and patented unique instrumentation and disposable assay cartridges that address current point of care (POC) coagulation testing needs.

Byers Peak, Inc. www.byerspeak.com
 Denver
 Byers Peak...a simple alternative. Specializing in electro-mechanical & medical contract manufacturing and other outsourcing Services.

CardioOptics, Inc. www.cardio-optics.com
 Boulder
 CardioOptics, Inc., invented and patented a method using Infrared (IR) light to see directly through flowing blood and examine the tissues and anatomical structures inside the heart and blood vessels.

Care Electronics, Inc. www.careelectronics.com
 Boulder
 Care Electronics, Inc., offers a range of safety alarms for monitoring in nursing homes and home health care settings.

Caroba Plastics, Inc. www.caroba.com
 Englewood
 Caroba Plastics, Inc., is a full service custom injection molder specializing in the demanding needs of the medical and high technology industries.

Cavitat Medical Technologies www.cavitatmedtech.homestead.com
 Aurora
 Cavitat Medical Technologies developed the worlds most advanced 3D color imaging system for bone and the only ultrasound imaging system for the Alveolar process.

CEA Technologies, Inc. www.ceatechnologies.com
 Colorado Springs
 CEA Technologies, Inc., designs and manufactures over 1,000 types of reusable and disposable medical devices.

Ceramed Dental LLC www.ceramed.com
 Denver
 Ceramed Dental offers a complete line of superior products for surgical and reconstructive dentistry.

CeraPedics, LLC www.cerapedics.com
 Lakewood
 CeraPedics is an orthopedic company focused on developing osteobiologic (bone substitute) products using its proprietary small-peptide (P-15™) technology platform.

CIVCO Medical Instruments www.civco.com
 Longmont
 CIVCO Medical Instruments manufactures specialized medical products for ultrasound and minimally invasive surgical equipment and procedures.

Cobe Cardiovascular, Inc. www.cobecv.com
 Arvada
 COBE Cardiovascular, partnering with Sorin Biomedical, manufactures oxygenators, cardioplegia systems, tubing packs, and biocompatible surfaces to heart/lung and autotransfusion systems.

Cochlear Americas www.cochlear.com
 Englewood
 Cochlear is the world leader in cochlear implants and innovator of the Nucleus® 3 cochlear implant system.

Coherent, Inc. www.coherentinc.com
 Denver
 Coherent, Inc., offers a diverse portfolio of laser systems, high power diode lasers, advanced laser diode modules and diagnostic equipment.

Colorado Histo-Prep www.histoprep.com
 Fort Collins
 Colorado Histo-Prep prepares microscopic histology slides.



Conception Technology, Inc. www.CTInews.com
Longmont
Conception Technology, Inc., produces at-home biosensors for identifying women's fertile days, fertility and birth control aids.

Confi-Dental Products Company www.confidental.com
Louisville
Confi-Dental Products manufactures quality dental cements, composite resins and injection-molded plastics. The company received the Governor's 2002 Award in the state of Colorado for Excellence in Exporting.

Corgenix Medical Corporation www.corgenix.com
Westminster
Corgenix Medical provides innovative and quality medical diagnostic products for hemostasis, autoimmune and vascular applications.

Dairy Tech, Inc. www.dairytech.org
Windsor
Dairy Tech, Inc., develops and markets Reverse-Vat Pasteurizers designed specifically for the dairy industry.

Datex-Ohmeda www.datex-ohmeda.com
Louisville
Datex-Ohmeda is the world's leading supplier of anesthesia equipment and related supplies and services. The Company offers anesthesia machines, patient monitors and ventilators. It also markets operating room, post-anesthesia care unit, intensive care unit and outside-the-hospital settings supplies and accessories.

Denver Biomedical, Inc. www.denverbiomedical.com
Golden
Denver Biomedical, Inc., is a leading designer, manufacturer and distributor of specialized medical products for fluid management of pleural effusion and ascites.

Denver Instrument Company www.denverinstrument.com
Arvada
Denver Instrument Company is dedicated to providing affordable high-quality, precision instruments for the educational, laboratory and general industrial markets.

Discovery Partners International, Inc. www.xeno.com
Boulder
Discovery Partners International, Inc., develops and sells instruments, products and services and related consumables to pharmaceutical companies for chemical compound generation associated with drug discovery.

Eldon James Corporation www.eldonjames.com
Loveland
Eldon James designs and manufactures plastic and stainless steel hose fittings with a superior single-barb design. Eldon James' fittings are used in many applications including medical, agricultural, food processing, biotech, laboratory, robotics and scientific instruments.

Encision, Inc. www.encision.com
Boulder
Encision, Inc., using patented active electrode monitoring technology, revolutionized minimally-invasive surgery with its AEM Laparoscopic Instruments.

Encynova International, Inc. www.encynova.com
Broomfield
Encynova International, Inc., designs and markets the Encynova's Travcyl™ Fluid Control System that delivers and controls fluids using a "traveling cylinder" pump design.

Fischer Imaging www.fischerimaging.com
Thornton
Fischer Imaging is oldest existing manufacturer of x-ray medical equipment in the country and leads the world in imaging solutions with a particular focus on imaging and biopsy.

Gambro BCT www.gambrobct.com
Lakewood
Gambro BCT is the global leader in automated blood collection technologies, therapeutic apheresis and leukapheresis for cell therapy applications.

Gambro, Inc. www.usa-gambro.com
Lakewood
Gambro, Inc., is made up three business units – Gambro Renal Products, Gambro Healthcare and Gambro BCT. Respectively, these companies make dialysis products, operate dialysis clinics and supply blood bank technology worldwide.

Genassist, Inc. www.genassist.com
The Genassist™ Concept is a service designed to assist you and your doctor to research, record and review your (and your partner's) family history for inherited conditions.

Genesee BioMedical, Inc. www.geneseebiomedical.com
Denver
Genesee BioMedical, Inc., manufactures cardiac surgical devices and offers a complete line of sternal and valve retractors and disposable cardiac accessories.

Hach Company www.hach.com
Loveland
Hach Company provides advanced analytical systems and technical support for water quality testing for the lab, process and field.

Hamamatsu Corporation <http://usa.hamamatsu.com>
Boulder
Hamamatsu Corporation develops and manufactures photo detectors, light sources and optical components for medical and industrial applications.

Healthetech, Inc. www.healthetech.com
Golden
HealtheTech, Inc., designs, develops and markets handheld medical devices and software for the measurement and monitoring of important health parameters.



HEI Advanced Medical Operations

www.heii.com

Boulder

HEI develops and manufactures high performance components, medical software, medical devices and non-medical products used for hearing and medical applications, communications and high-speed data processing.

Ideatrics, Inc.

www.ideatrics.com

Boulder

Ideatrics, Inc., develops hand-held manually-operated mechanical instruments and provides consulting services to organizations involved in the design, manufacture and distribution of medical devices.

Inter-OS Technologies, Inc.

www.inter-os.com

Lone Tree

Inter-Os Technologies, Inc., specializes in distraction osteogenesis and develops reputable devices that meet the needs of both patients and surgeons.

Irom Imaging, Inc.

www.irom.com

Englewood

Irom Imaging, Inc., develops mobile X-ray units, radiographic X-ray tables, and related ceiling, floor and wall suspended support systems.

JMST Systems

Colorado Springs

JMST Systems manufactures innovative, high quality, cost effective analytical instruments for the pharmaceutical, biological, environmental and forensic markets.

Keeton Industries, Inc.

www.keetonaqua.com

Fort Collins

Keeton Industries manufactures products for both the fisheries and aquaculture industries. The company works with private companies and federal, state and local governmental agencies throughout the U.S. and overseas.

KEMS Biotest International

www.kemsbiotest.com

Centennial

KEMS BioTest's medical devices meet the needs of beef and dairy producers by providing quick, actionable, on-site and cost-effective herd health test results and information.

Kestrel Labs

www.kestellabs.com

Boulder

Kestrel Labs finds innovative medical device concepts, conducts research to demonstrate the product viability and moves products rapidly through development phases to early market introduction.

Labac Systems, Inc.

www.labaonline.com

Denver

Labac Systems, Inc., designs and builds high quality, innovative quadriplegic seating systems.

Lane Manufacturing, Inc.

www.lane-mfg.com

Denver

Lane Manufacturing, Inc., produces gentle and cost effective large animal reproductive equipment and supplies.

Lexicor Research Center

www.lexicor.com

Boulder

Lexicor manufactures an EEG data acquisition medical device called the Digital Cortical Scan™. The Company also offers quantitative EEG data analysis through its DataLex™ Reporting Service.

Light Force Therapy, Inc.

www.lightforcetherapy.com

Elizabeth

Light Force Therapy's light emitting diodes produce a unique combination of frequency and wavelength to elevate muscle tissue temperature and increase circulation to relieve pain and relax muscles.

Little & Company

Grand Junction

Little and Company is a surgical and medical instrument manufacturer.

McKinley Medical LLLP

www.mckinleymed.com

Wheatridge

McKinley Medical offers infusion technology designed for high quality drug delivery. McKinley Medical's pain management systems lead in the orthopedics and general surgery markets.

Medical Modeling LLC

www.medicalmodeling.com

Golden

Medical Modeling produces highly accurate 3D physical models derived from medical imaging modalities from CTs and MRIs.

Medical Simulation Corporation

www.medsimulation.com

Denver

Medical Simulation's products help healthcare professionals train in risk-free environments, improve patient outcomes and accelerate the delivery of new devices and procedures to the marketplace.

Meritech, Inc.

www.meritech.com

Englewood

Meritech, Inc., manufactures the CleanTech® automated hand washing and glove washing systems that remove harmful pathogens and contaminants from bare as well as gloved hands.

Mesa Laboratories, Inc.

www.mesalabs.com

Lakewood

Mesa Laboratories, Inc., sells and manufactures electronic measurement instruments used to solve product quality problems in industrial, pharmaceutical and medical applications.

Mesa Orthopedic, Inc.

Grand Junction

Mesa Orthopedic manufactures orthopedic appliances, prosthetics and surgical instruments.

Microtech Medical Systems, Inc.

Aurora

Microtech Medical Systems, Inc., produces in-vitro diagnostic, physician and surgical equipment.

MIQS, Inc

Boulder

www.miqs.com

MIQS, Inc., provides knowledge-based healthcare information technology solutions that minimize medical practice costs and risk. The Company's solutions maximize patient health and well-being.

MSPI

Englewood

MSPI manufactures surgical and medical instruments and performs medical research.

Navigant Biotechnologies™, Inc.

www.navigantbiotech.com

Lakewood

With the use of its Mirasol Pathogen Reduction Technology, Navigant Biotechnologies, Inc., offers organizations technology to improve blood supply safety. Its products apply light and riboflavin to inactivate blood pathogen nucleic acids.

Optibrand Ltd. LLC

www.optibrand.com

Fort Collins

Optibrand's Secure Identity Preservation™ system offers food producers a fraud-resistant, inexpensive system that positively identifies individual animals from birth and throughout the food processing chain.

Ortho Sharp
Westminster
Ortho Sharp manufactures dental equipment and supplies.

Otologics LLC www.otologics.com
Boulder
Otologics develops and manufactures the MET™ Ossicular Stimulator for sensorineural hearing loss treatment. This technology delivers a high fidelity signal directly to the middle ear.

Oval Window Audio www.ovalwindowaudio.com
Nederland
Oval Window Audio produces induction loop assistive listening systems and unique visual and vibrotactile technologies that help deaf and hard of hearing individuals to experience sound.

PARE Surgical, Inc. www.paresurgical.com
Englewood
PARE Surgical, Inc., is a leader in the development of innovative technologies for use in minimally invasive surgery.

Particle Measuring Systems www.pmeasuring.com
Boulder
Particle Measuring Systems sells its particle counting systems to life and physical science markets. These precision instruments detect contaminants in aerosols, liquids, gas streams and vacuum processing environments.

Peak Robots, Inc. www.peakrobotics.com
Colorado Springs
Peak Robotics is an engineering-rooted company that manufactures robots, special equipment, and turnkey automated systems for biotech, electronics, medical and semiconductor industries.

Pernicka Corporation www.pernicka.com
Fort Collins
Pernicka Corporation develops and manufactures computer-controlled machines that build ion lasers used for eye surgery and excimer lasers used in heart surgery.

Physiodynamics, Inc. www.therastim.net
Englewood
TheraStim® is a unique, electrical neuromuscular stimulation modality. It is a distinctive breakthrough in the treatment of soft tissue rehabilitation.

Porta-Lung, Inc. www.porta-lung.com
Denver
Porta-Lung, Inc., manufactures noninvasive respiratory support devices.

Preferred Medical Products www.pmpcolorado.com
Englewood
Preferred Medical specializes in the manufacture of stainless steel medical components for hypodermic needles and lancet type products.

Probetronix www.probetronix.net
Colorado Springs
Probetronix is a premier manufacturer of oscilloscope probes.

Protogenic, Inc. www.protogenic.com
Westminster
Protogenic is a professional service bureau that manufactures prototypes and conceptual models using stereolithography rapid prototyping technology.

Protomed, Inc. www.protomed.net
Arvada
Protomed, Inc., uses the latest imaging software and laser driven technology to create accurate anatomical models from CT scans.

Quest Product Development www.quest-corp.com
Evergreen
Quest Product Development provides full service engineering and product development services for the medical device industry.

Rand-Scot, Inc. www.rand-scot.com
Fort Collins
Rand-Scot, Inc., manufactures products that helps people with server physical disabilities and is best know for its EasyPivot patient lift.

RJD Machining www.rjdmachining.com
Parker
RJD Machining provides quality components to medical equipment, aerospace, electronic component, optical, measuring device, pumping and electro-magnetic companies.

Rocky Mountain Orthodontics www.rmortho.com
Denver
Rocky Mountain Orthodontics manufactures dental, physician and surgical equipment.

Rocky Mountain Orthotics Labs www.rmolink.com
Denver
Rocky Mountain Orthotics is the largest prescription orthotics manufacturer in the United States.

Sandhill Scientific, Inc. www.sandhillsci.com
Highlands Ranch
Sandhill Scientific, Inc., manufactures medical instrumentation for gastroenterologists and endoscopic surgeons.

Shippert Medical Technologies Corporation www.shippertmedical.com
Englewood
Shippert manufactures medical disposable products and instruments for the Ear, Nose and Throat, Plastic Surgery, Emergency/Trauma Care, Family Practice, Pediatric, and Dermatology specialties.

Silverglide Surgical Technologies Inc. www.silverglidesurgical.com
Boulder
Silverglide Surgical Technologies, Inc., manufactures electrosurgical instruments enhanced with the SILVERGlide® non-stick technology. This technology prevents the sticking and buildup of tissue, which results in faster, more precise surgery.

Sonora Medical Systems www.4sonora.com
Longmont
Sonora Medical Systems provides aftermarket products and services to the diagnostic ultrasound and MRI markets saving its customers millions of dollars through its continuously expanding list of service offerings.

Sound Surgical Technologies LLC www.soundsurgical.com
Lafayette
Sound Surgical Technologies is the world leader in innovative ultrasonic technologies and related products for aesthetic surgery.

Starkey Laboratories, Inc. www.starkey.com
Colorado Springs
Starkey Laboratories, Inc., is the largest manufacturer of custom hearing instruments in the world.

Steritool www.steritool.com
Grand Junction
Steritool manufactures stainless steel hand tools designed for use in critical production, sterile, clean room or corrosive environments.

Summit Doppler Systems www.summitdoppler.com

Arvada
Summit Doppler Systems is a leading manufacturer of ultrasound Doppler systems used to detect fetal heartbeat and to monitor peripheral arterial and venous blood flow.

Tartan Orthopedics, Ltd. www.tartanortho.com

Westminster
Tartan Orthopedics manufactures an entire line of orthopedic products.

Teledyne Water Pik www.waterpik.com

Fort Collins and Loveland
Since Waterpik Technologies began in 1962, we've been a leading developer, manufacturer and marketer of revolutionary dental care, showerheads, massagers and water filtration products.

The Alpha Group & Associates www.alphagroup.us

Broomfield
The Alpha Group provides comprehensive radiation detection instrumentation, services and programs designed protect the worker, the general public and the environment.

The Spectranetics Corporation www.spectranetics.com

Colorado Springs
Spectranetics develops, manufactures and markets to physicians and hospitals its "cool" ultraviolet excimer laser technology for treating multiple cardiovascular procedures.

Thermo Electron Corporation www.thermo.com

Boulder
Thermo Electron's business unit, Point of Care and Rapid Diagnostics, makes a variety of patient tests for clinical use for everything from streptococcus and influenza to sexually transmitted diseases.

Titan Scan Systems www.titanscan.com

Aurora
Titan Scan Technologies uses linear accelerator technology, first developed by The Titan Corporation for national defense purposes in the mid-1980's, to manufacture electron beam system specifically for sterilization of medical devices in their final shipping containers.

TMJ Implants, Inc. www.tmj.com

Golden
TMJ Implants, Inc., manufactures, markets and sales temporomandibular joint disease products.

Transtracheal Systems, Inc. www.tto2.com

Englewood
Transtracheal Systems, Inc., manufactures SCOOP Transtracheal Oxygen Catheters, Transtracheal Surgical Kits, Oxygen Tubing and Supplies.

TRS, Inc. www.oandp.com

Boulder
TRS, Inc., is leading innovator of body-powered prosthetic devices in the world.

UTI-Star Guide USA www.utitec.com

Denver
UTI Corporation provides finished devices, assemblies and components to the medical device OEM market.

Valleylab, Inc. www.valleylab.com

Boulder
Valleylab, Inc., develops and manufactures advanced energy-based surgery systems which includes electro-surgical generators and devices, vessel sealing systems, ultrasonic surgery systems and a complete line of accessories and disposables.

Wasson-Ece Instrumentation www.wasson-ece.com

Fort Collins
Wasson-ECE Instrumentation specializes in configuring and modifying new or existing gas chromatographs to become guaranteed, turnkey analytical systems.

Wi, Inc. www.wi-llc.com

Englewood
Wi, Inc., provides design and development services to the medical device industry. The Company specializes in the engineering of electro-mechanical and disposable medical products.

Wireless Medical, Inc. dasjes@msn.com

Aurora
Wireless Medical, Inc., develops wireless, cell phone and internet based therapy guidance devices for congestive heart failure patients.

Ximedix, Inc. www.ximedix.com

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Ximedix, Inc., develops insulated pouches that maintain the temperature of warm and cool solutions.

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www.fwlaw.com

Hogan & Hartson, L.L.P.
www.hhlaw.com

Holland & Hart LLP
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Holme Roberts and Owens
www.hro.com

Marsh Fischmann & Breyfogle, LLP
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Merchant & Gould
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Patton Boggs, LLP
www.pattonboggs.com

Sheridan Ross PC
www.sheridanross.com

Townsend & Townsend and Crew LLP
www.townsend.com

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www.adamscountyed.com

Arvada Economic Development Association
www.aeda.biz

Aurora Economic Development Council
www.auroraedc.com

British Consulate - Denver
www.BritainUSA.com

Canadian Consulate
www.dfait-maeci.gc.ca/can-am/menu-en.asp?mid=48

City of Denver
www.ci.denver.co.us

CO. Office of Economic Development & Int'l Trade
www.state.co.us/oed

Denver Metro Chamber/Metro Denver Economic Development Council
www.denverchamber.org

DIA Partnership
www.diapartnership.org

Jefferson Economic Council
www.jeffco.org

JETRO Denver
www.jetro.go.jp

Longmont Area Economic Council
www.longmont.org

Northern Colorado Economic Development Corp.
www.ncedc.com

Northern Ireland Technology and Development
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Aims Community College
www.aims.edu

Community College of Aurora
www.ccaurora.edu

DeVry University
www.devryschools.com

Front Range Community College
www.frontrange.edu

FACILITIES

Advanced Lab Concepts
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UV Partners
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www.wgnielsen.com

Wells Fargo
www.wellsfargo.com

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www.labsupport.com

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www.thechildrenshospital.org

Colorado State University
www.colostate.edu

**Colorado State University
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www.csurf.org

**National Jewish Medical
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www.njc.org

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