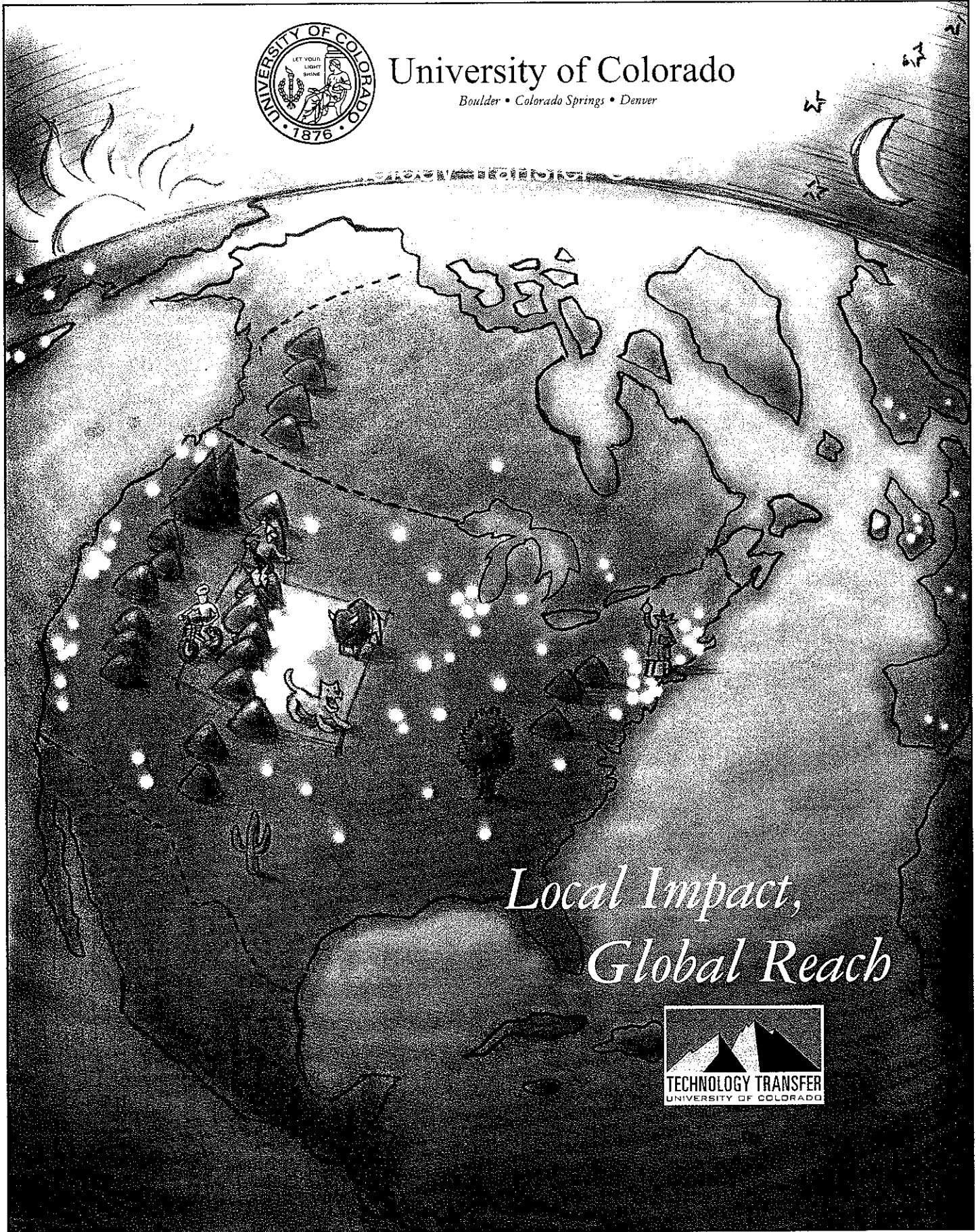


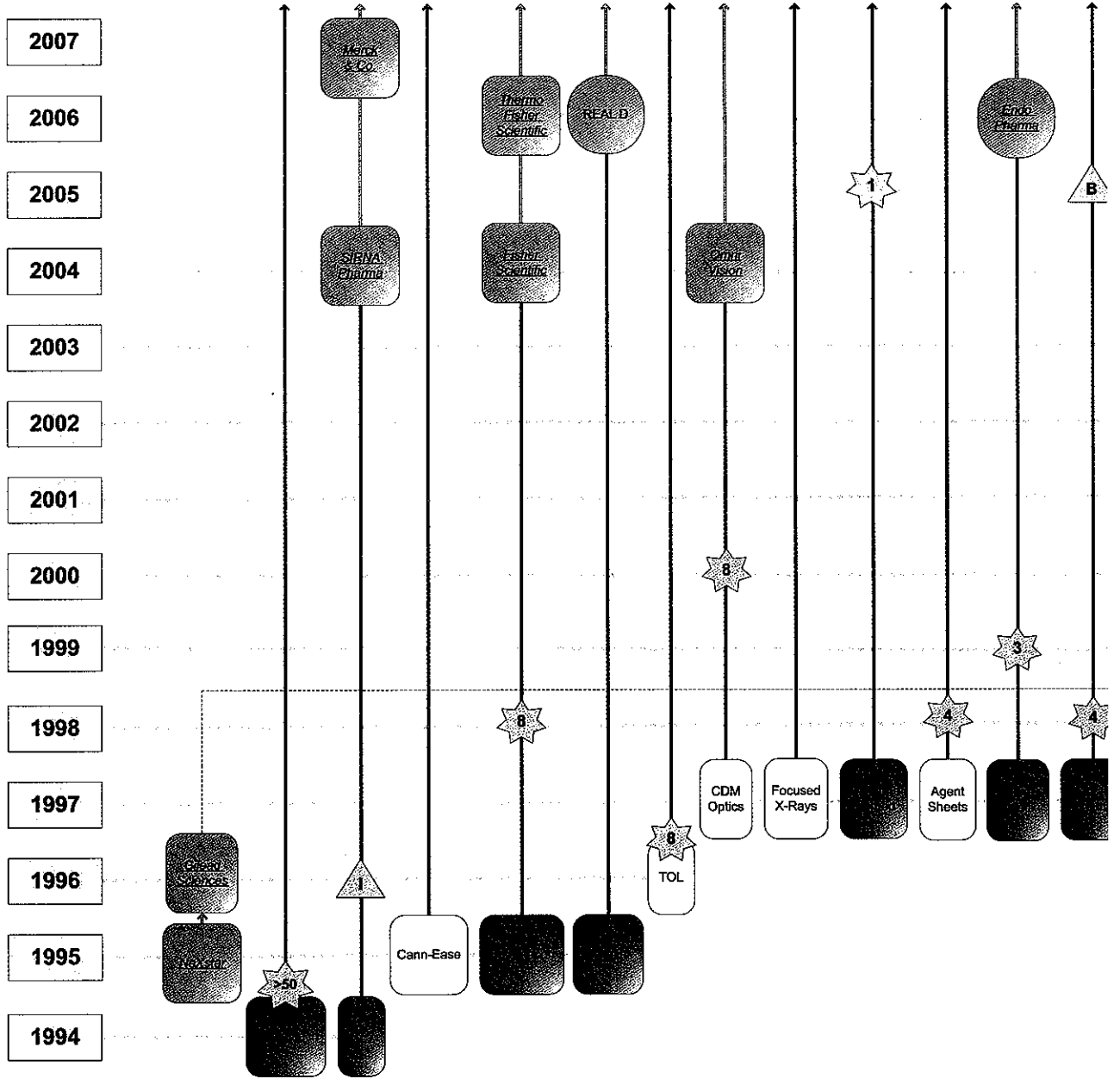
University of Colorado

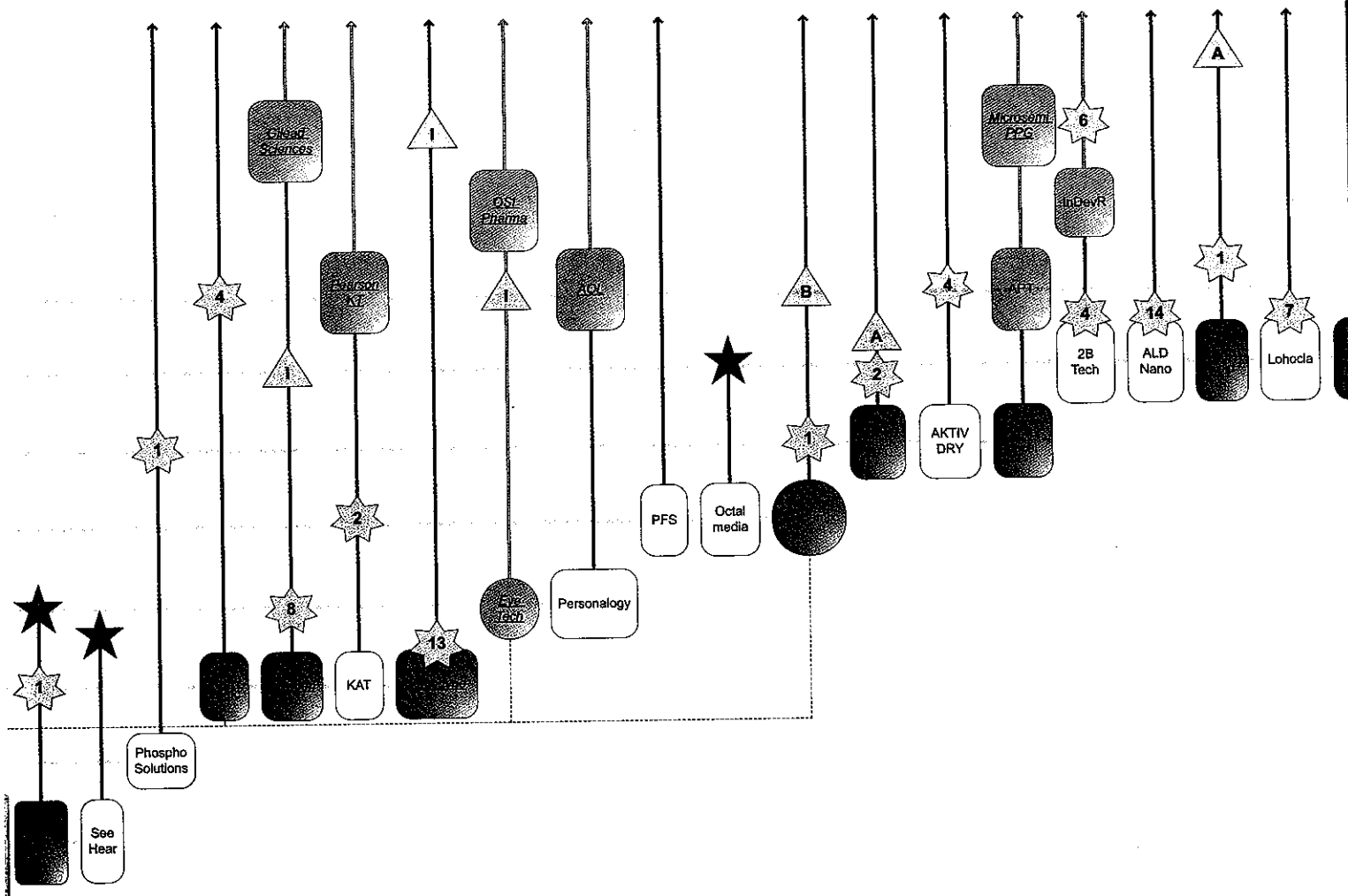
Boulder • Colorado Springs • Denver

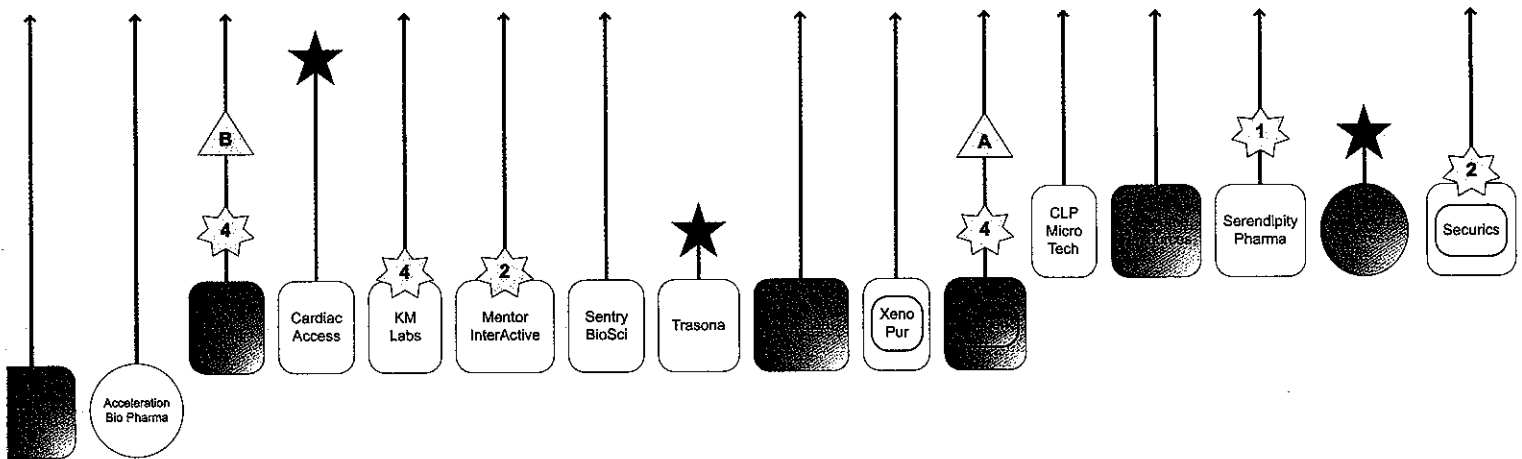


*Local Impact,
Global Reach*







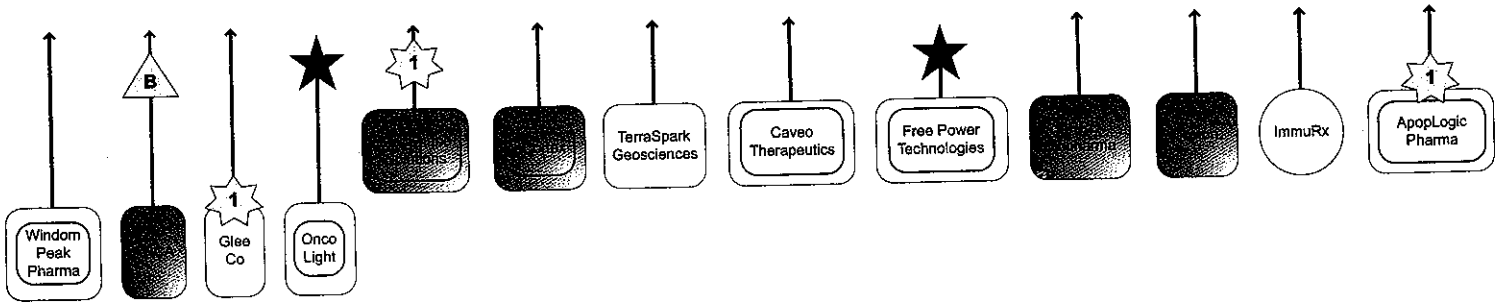


The Sustainability of Companies Created Based on CU Intellectual Property

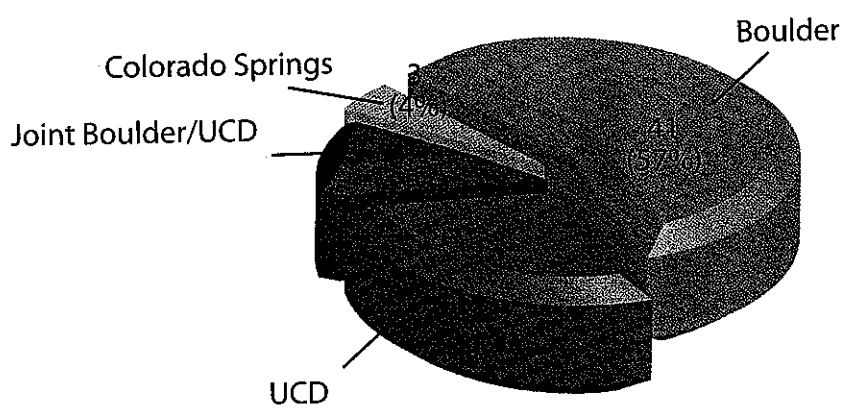
In the last 14 years, 72 companies have been formed based on CU IP. Eight are known to be non-operational.

Of the 64 companies known to be operating:

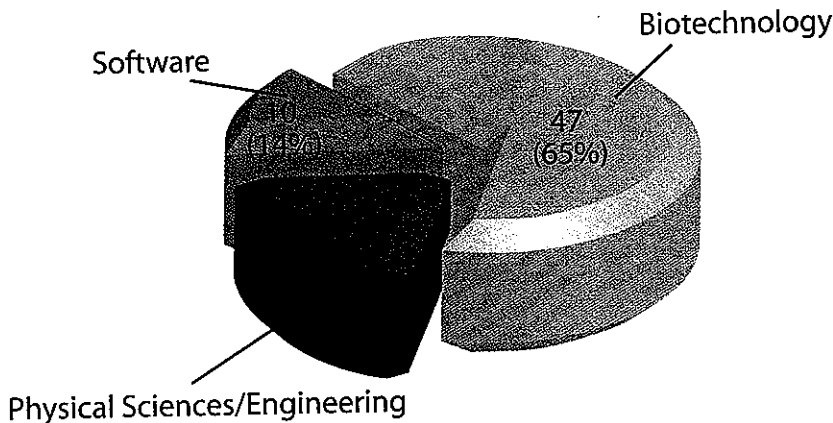
- 57 have operations in Colorado (although the headquarters may be located out-of-state)
- 12 have received CU Technology Transfer Office (TTO) Proof of Concept investments
- 5 have "gone public," becoming publicly traded companies
- 10 have been acquired by public companies (including four from the above five that have gone public)

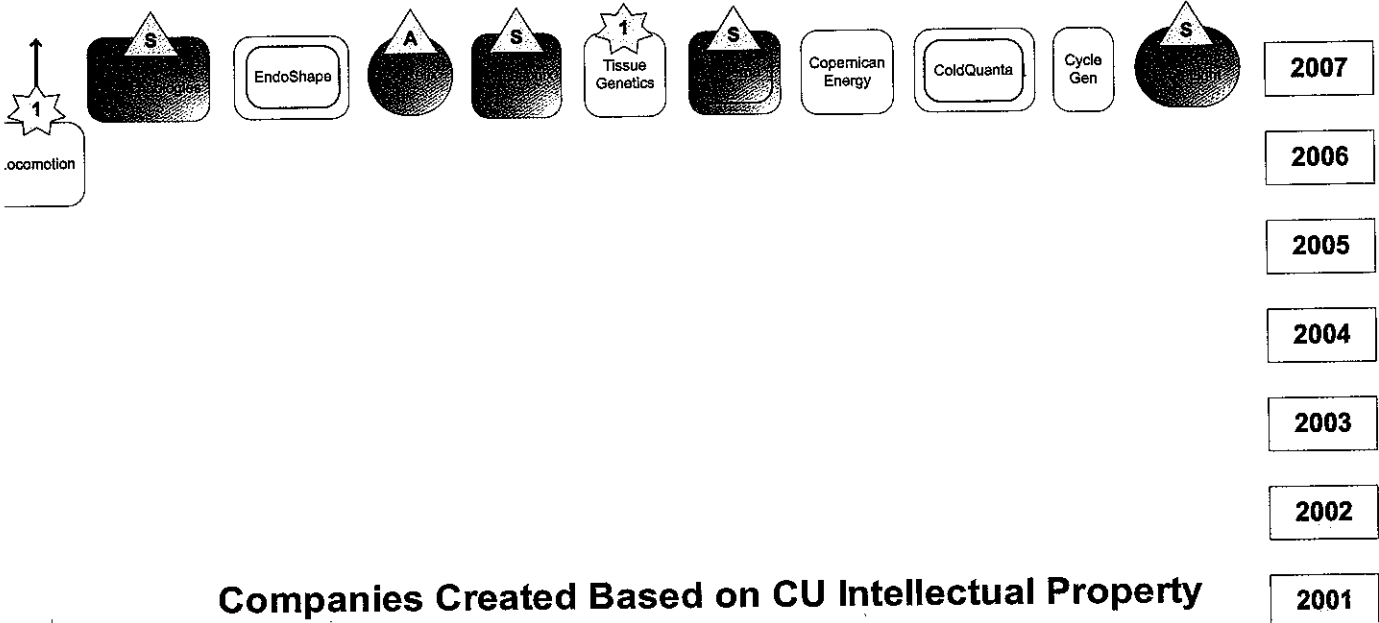


Companies Created, by Campus



Companies Created, by Discipline





Companies Created Based on CU Intellectual Property

Legend

Shapes

- Colorado Operations
- Non-Colorado Operations
- Company Discontinued
- Company Discontinued, IP Optioned/Relicensed
- First Date SBIR/STTR Received & Total Number Received
- Most Recent VC Funding & Round (Seed, A, B, C, D, or IPO)

..... Denotes Origin of Technology Asset

Colors

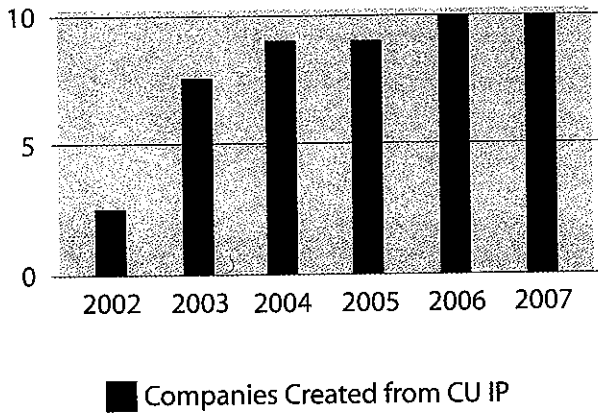
- Non-Founder Private and/or Venture Capital Funded Acquisition

Text

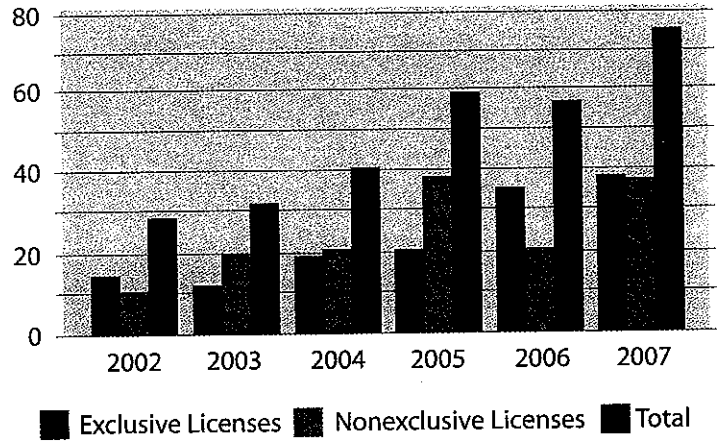
- TTO POC Recipient
- Public Company

*Source: CU TTO Records and Public Information.

Companies Created from CU IP

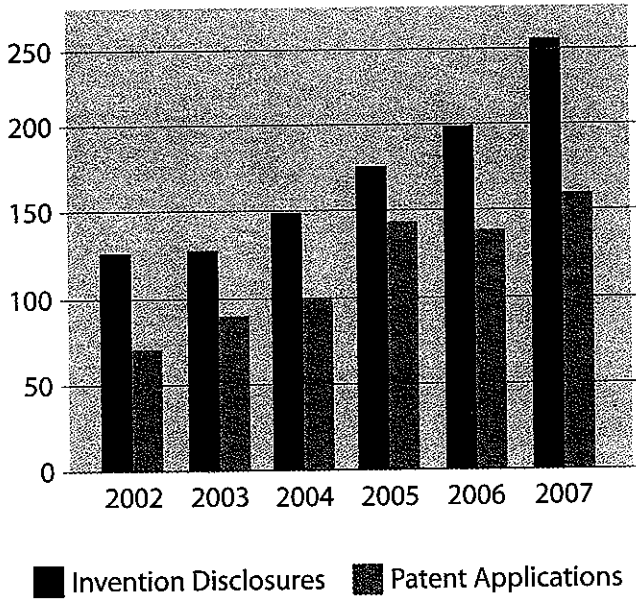


Exclusive and Nonexclusive Licenses

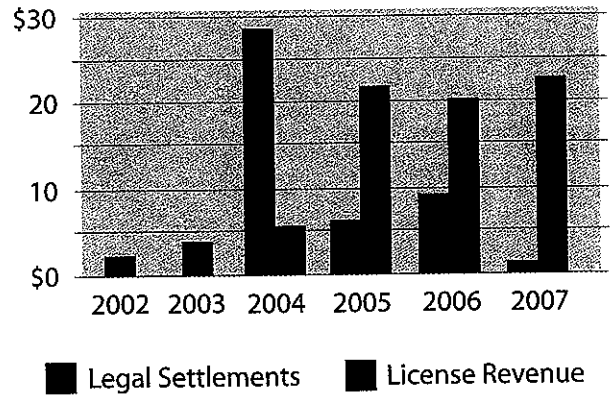


Historical Performance

Invention Disclosures and Patent Applications



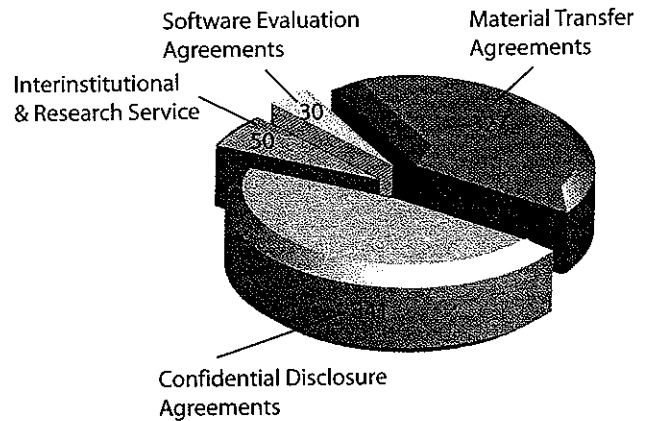
Revenue Earned, 2002-07
(in millions)



FY 2007 TTO Performance at a Glance

Invention disclosures	254
U.S. patent applications filed	156
U.S. patents granted	16
Total options and licenses	75
Exclusive options and licenses	38
Nonexclusive options and licenses	37
Ratio of legal fee reimbursements to legal expenditures	58%
Revenue in millions (see note)	\$22.7
Start-up companies formed from CU IP	10
IP-induced sponsored research in millions	\$13
Service agreements executed (see note)	748

Service Agreements



Notes: The criteria used for TTO's performance metrics conform to the standards used by the Association of University Technology Managers (see www.autm.net). This does not include revenue derived from legal settlements that in FY 2007 amounted to \$1.3 million. Service measures include material transfer agreements, confidential disclosure, software evaluation, and interinstitutional and IP agreements.

CU Technology Transfer Office (TTO) Portfolio Snapshot as of July 1, 2007

U.S. patents in force	251
U.S. patent applications being prosecuted	214
Exclusive licenses	91
Nonexclusive licenses	185
Companies created based on CU Intellectual Property (IP) and still in business	64
Companies in which University License Equity Holdings, Inc. (ULEHI) currently holds equity	34

TTO Budget for FY 2008 (in dollars)

Salaries and benefits	\$1,896,100
General operating	\$324,300
Rent	\$158,700
Service fees to CU System and CU-Boulder	\$101,200
Patent costs and legal expenses Boulder Innovation Center and Fitzsimons BioBusiness Partners	\$100,000
ULEHI management fee	\$65,000
Proof of concept programs	\$1,000,000
Total—all expenses	\$4,607,300

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University of Colorado Technology Transfer Office Annual Report, Fiscal Year 2006-07

The University of Colorado Technology Transfer Office (TTO) continued its delivery of value during fiscal year 2006-07. A financially self-sufficient enterprise, TTO directs most of its revenue back to inventors and research as prescribed by the *University of Colorado Regent Policy on Discoveries and Patents*. Fiscal year 2006-07 highlights include:

- Continued invention disclosure growth (254 vs. 198 the previous year)
- Nonexclusive license growth (37 vs. 21 the previous year)
- Exclusive licenses at roughly same volume (38 vs. 36 the previous year)
- Ten new CU intellectual property (IP)-based companies (10 the previous year); continued success of CU IP companies

- Initiation of a state of Colorado bioscience proof-of-concept grant program with matched CU funding (13 projects funded by \$2.1 million); program expansion to include biofuels

Beyond examining the fiscal year, this report documents the historical and expected impact of CU IP. The horizontal chart (*reverse side*) examines key attributes of companies created based on CU IP, illustrating that company creation and sustainability rates place CU among the nation's top 10. The vertical presentation of technology pipelines (*this side*) illustrates CU IP development stages and shows the tangible impact CU IP will have on society.

Revenue generation is an important element of technology transfer performance. CU TTO revenue rose from \$2.1 million in fiscal year 2002-03 to \$24 million in fiscal year 2006-07. During this six-year period, cumulative revenue was \$113.5 million.

Two major events in 2007 will significantly affect TTO revenues. First, CU's homo-cysteine assay patent expired in July 2007. Second, the last of three payouts occurred from a royalty monetization transaction (exchanging the majority of a royalty stream for three payments). As a result, revenue forecasts will diverge from recent history and are not expected to return to recent levels for four years. TTO has the financial resources to weather this temporary revenue shortfall. A combination of

maturing technology in the pipelines producing increasingly greater royalty revenue, unspent TTO revenue carried forward from previous years, and the drawing down of the Long-Term Investment Account managed by the CU Treasury will maintain TTO's financial solvency until revenue ascends back to \$20 million-plus annual levels, anticipated in fiscal year 2011-12.

TTO's plan for sustaining operations ensures CU and its constituents will see undiminished TTO service levels. During fiscal year 2007-08 and beyond, CU investigators, licensee companies, and TTO will continue to produce appreciable benefits for the university, Colorado, the nation, and society.

University of Colorado Physical Sciences Products on the Market

2B Technologies Inc./InDevR Inc.	Portable Ozone Monitor	Analytical instruments for atmospheric and environmental measurements
Advanced Photonics Inc.	Optical Metrology System for Microstructure Analysis	Custom optical and thin film deposition systems
AgentSheets, Inc.	Visual AGENTALK	Game authoring technology, educational simulation tools
3D Optical Imaging Technology, Inc.	(Multiple)	Color management components, polarization optics, and optical systems.
ColorLink/REAL D	(Multiple)	Fluidics instrumentation to detect, analyze, and monitor communications
DisplayTech, Inc.	(Multiple)	Fully integrated shared-earth modeling for asset teams
Earth Decision Sciences Corp./Paradigm	Sidetrack Planning and Optimization, Proactive/Reactive Well Path Planning	
Esajevs Mirman/Leas	High Performance High Voltage Power Ultrasound Amplifier System	
Optical Associates (OAI)	Fabrication of 3D Photopolymeric Devices	Precision equipment for MEMS, semiconductors, nanotechnology, cleanroom automation, and UV light measurement.
PerkinElmer Technology	High Performance Ultrasound Amplifier System	Advanced instrumentation for the pharmaceutical and chemical markets
Propellant Fracturing and Simulation (PFS)	Method and Apparatus for Fracturing Wells Using Propellants	Safe, environmentally friendly, and cost-effective well stimulation solutions
Fluor Learning, Inc.	Fluor/CFER Conversational Visual Tools (Cavi)	Instructional technology and simulation software solution
Rosetta Stone Ltd.	The Sonic Large Vocabulary Continuous Speech Recognizer	Language-learning software
Sequus Software Corp.	Nonlinear Adaptive Control for Resource Distribution Dynamics	Simulation and modeling software application
SFC Fluidics	Nonmechanical High-pressure Pump	Microfluidic technologies: lab-on-a-chip, analytical tools, clinical diagnostics, and life science research instruments.
Solaris West/Computational Learning	Reduction Models	Process reduction for the pharmaceutical, chemical, and professional services
TerraSpark IP, LLC	Automatic Fault Extraction	Visualization technology research and software applications development for energy and oil & gas markets.
VidTech/Verity, Inc.	Interactive CD-ROM Program	Multimedia training tools for engineering students

UNIVERSITY OF COLORADO PHYSICAL SCIENCES TECHNOLOGY PIPELINE

Technology	Inventor	Status	Application
CHEMICALS AND MATERIALS			
Liquid crystal nanofiltration membranes	Gin-Noble	Patent pending	Commercial separations processes
Reverse osmosis membrane	Gin-Noble	Patent pending	Water treatment and sanitation
Sieve membranes	Richard Noble	Patent issued	Selectivity properties of membranes
Zeolite sulfonate-1 membrane	Richard Noble	Patent issued	High selectivity separations of vapors and gas mixtures
Small, sealed glass cell fabrication	John Kitching	Disclosed	Miniature vapor cell atomic clocks or magnetometers
Polymer production	Harold Randolph	Patent issued	Method for making polymers of highly uniform size
Microscale bandpass	Zbigniew Celinski	Patent pending	Micro-scale bandpass filter for use in high-frequency systems
GPS ocean scatterometer	Valery Zavoronov	Patent issued	Method for measuring ocean surface
Ceramic superconductor	Veeraraghavan Badri	Patent issued	Easier formation of macroscopic-scale devices
Polymeric microparticles	Kristi Amscheid	Patent issued	Block copolymer microparticles
Zeolite membranes for hydrogen storage	Richard Noble	Patent pending	Reversible, high-energy density hydrogen storage
Polymeric devices	Changsheng Bowman	Patent pending	Designing materials for numerous applications
Polymer-brush fillers	Jeffery Stansbury	Patent pending	Dental composites, implants
Controlable nanometer-sized valve	Richard Noble	Patent pending	Separation, chemical sensors and controlled release of molecules
Stress relaxation in crosslinked polymers	Christopher Bowman	Patent pending	Molding, elimination of shrinkage stress, optical and dental applications
Low-cost production of zeolite membrane modules	Hans Junke	Disclosed	Zeolite membrane modules
Superconductor devices useful for disk drives	Frank Barnes	Patent issued	Superconductor devices
Lactide-co-glycolide copolymers	Frederic Randolph	Patent issued	Microparticle formation using the PCL technique
Low-temperature molten salts	Patrick Hilbert	Patent issued	Purification of emissions from plants and factories
Non-linear carrier controllers for high power factor rectification	Markus J. Erickson	Patent issued	High power factor rectification
Ceramic-zeolite composite membranes	John Falconer	Patent issued	Separation of vapor-gas mixtures
Novel methacrylic monomers	Chris Bowman	Patent issued	Styrenic polymerization and formation of polymers with enhanced material purpose
Nanogel structures	Jeffery Stansbury	Patent pending	New compositions and processing conditions
Room-temperature ionic liquids (RTILs)	Gin-Noble	Patent pending	Non-vaporizing systems derived from ionic liquids with enhanced properties
Damping coil resonances in SQUIDS	Ronald Ono	Patent issued	Improved usefulness of SQUID transfer function

Technology	Inventor	Status	Application	Patent	Applications
ENERGY					
Hydroelectric energy storage	Gregory Martin	Disclosed	Energy storage for alternative power generation		
Resonant optical fiber generator tanks	Gregory Martin	Patent issued	Improved thermal resonator for plate type generator tanks		
Polarization switching D/A converter	T.S. Kalkur	Patent pending	New hardware architecture, performs digital-to-analog conversions		
Hovercraft/aircushion aerial vehicle	Dale Lawrence	Patent pending	Low range, high speed, high lift, hands free, virtually anywhere		
MICRO AND NANOTECH					
Tunable nanomasks	Kenneth Douglas	Patent issued	Creation of nanotubes on a surface		
Nanometer scale multi-device structures	Noel Clark	Patent issued	Creation of nanostructures of 1-50 nanometers in diameter		
Molecular sized nets and scaffolding	Thomas Magnera	Patent issued	Formation of molecular sized grids or nets		
New class of photoresists	Josef Mrohl	Patent issued	Production of semiconductor devices		
Passive optical imaging and ranging	Russell Piestun	Patent pending	Military aiming systems, ranging, space optics, robotics		
Configurable photonic crystals	Woonjhang Park	Patent pending	Real-time, dynamic control of photonic band structure		
Highly sensitive, massively parallel, broadband, real-time spectroscopy	Jun Ye	Patent pending	Determining gas/dust concentrations		
Cavity ringdown spectroscopy system	Jun Ye	Patent issued	Determining gas/chemical concentrations		
Optical axis scanning FIV technique	Jean-Henri Burg	Disclosed	Method for measuring speed of light, velocity measurement		
Ultra-wide, low-light level viewing system	Kenneth Kubala	Patent issued	Military, security personnel, and police use in after-dark operations		
Adaptive measuring, spatial light modulator	Douglas McKeigh	Patent issued	Adaptive, omnidirectional, panoramic, air image		
Optical speed and range detector	Eric Cornell	Patent issued	Robotics, law enforcement, machine vision		
Optical cooling of solids	Eric Cornell	Patent issued	Passive cooling of a solid to extremely low temperature		
Sub-15 femtosecond active synchronization of two passively mode locked ti-sapphire oscillators	Kapteyn/ Murmane	Patent issued	High-performance multistage synchronization of pulsed radiation sources		
New method of RNA purification	Robert Batey	Patent pending	Improved method of RNA purification		
Noble metal-based chemical library	Brian DeDecker	Disclosed	Discovery of therapeutics to combat autoimmune diseases		
Production of hemoproteins	George Bajzsa	Patent issued	Fast assembly of hemoproteins		

UNIVERSITY OF COLORADO PRECLINICAL THERAPEUTIC PIPELINE

Compound	Inventor	Status	Composition	Indication	Phase	Company	Year
Bryostatins	Edward Dempsey	Available for license	Small molecule	Pulmonary hypertension			
HSP-90 inhibitors	Ross Siegel	Available for license	Small molecule	Cancer			
Growth factor	Steve Anderson	Available for license	Peptide	Xerostomia			n/a
Platelet extract/healing factor	Mark Roederheimer	Available for license	Multiple peptides	Wound healing			
soluble Mer (Fc-Mer)	Doug Graham	Exclusively committed	Recombinant	Leukemia, stroke, DVT, cardiac thrombosis			
Prokinase/plasminogen activator fragment	Edward Abraham	Available for license	Recombinant or peptide	Acute myocardial infarction, stroke			
Alpha-helix amps	Robert Hodges	Exclusively committed	Peptide	Nocosomal infections			
Anti-angiogenesis	Michael Vasil	Available for license	Protein	Cancer, asthma, proliferation			
Bradykinin agonists	John Stewart	Exclusively committed	Peptide	Pulmonary hypertension			
NO ₂ inhibitors (7-leads)	David Ross	Available for license	Small molecule	Cancer			
Bradykinin-bisphosphonates conjugate	Tarasviciene-Stewart	Available for license	Peptide with targeting moiety	Metastatic bone disease			
Tetrandrine derivatives	Hari Koul	Available for license	Small molecule	Cancer			
Influenza fusion inhibitor	Kathryn Holmes	Available for license	Peptide, mab, or vaccine	Influenza			
Potentiation of TKIs	James DeGregori	Available for license	Peptide or small molecule	Cancer			
Anti-cancer compounds	Heide Ford	Available for license	Small molecule	Solid tumors/cancer			
SARS receptor antagonist	Kathryn Holmes	Available for license	Peptide/mab/vaccine	SARS			
Insulin-like growth related peptide	John Hutton	Available for license	Mimotope	Type I diabetes			
Diabetes autoantigen	Hutton-Eisenbarth	Available for license	Mimotope	Type I diabetes			
Mer glycospecific mab	Doug Graham	Exclusively committed	Mab	Leukemia, astrocytoma			
Antifungal peptides	Mihai Netea	Available for license	Peptide	Fungal infection			
Myoblast activator	Gary Brodsky	Available for license	Peptide	Heart disease, muscular dystrophy			
Cystathionine-beta synthase	Jan Kraus	Available for license	Recombinant	End stage renal disease			
TRAIL therapy modulation	Heide Ford	Available for license	Small molecule	Cancer			n/a

Compound	Inventor	Status	Composition	Indication	Biological Discovery	Stakeholder	Animal Models	Optimization	Pharmacology	IND	Phase
Anti-cancer peptide	Margaret Neville	Available for license	Peptide	Solid tumors							
MHCII-related protein inhibitor	John Cambier	Available for license	Antibody's Target	Lymphoma							
Micro-RNA therapies and diagnostics	David Port	Available for license	Small molecules/nucleic acids	Cardiovascular diseases							
Retinal nanoparticles	Jeffrey Olson	Available for license	Nanotechnology	Eye-sight restoration							
Diabetes therapeutic	Mark Nicolls	Available for license	Antibody or peptide	Type I and II diabetes							
Doxazofidine and derivatives	Tad Koch	Available for license	Targeted small molecule	Cancer							
Autoimmune therapy	V. Michael Holers	Available for license	Antibody or peptide	Autoimmunity							
Mutant profilin/thrombin	Jerry Lefkowitz	Available for license	Peptide	Thrombotic disorders							
MEF-2 inhibitor	Lin Chen	Available for license	Peptide	Heart disease							
Multiple disease therapeutic	Karen Newell-Rogers	Available for license	Peptide or small molecule	Heart cancer, autoimmunity, graft-host rejection							
Aptazyme prodruq	Richard Radcliffe	Available for license	Conjugated molecule	Diabetes							

As of July 2007

Completed

In Progress

UNIVERSITY OF COLORADO DIAGNOSTIC PIPELINE

Diagnostic marker	Disease	Inventor	Application	IP Type	Analytical Platform	Target Identification	Assay Formatting	Analytical Validation	Clinical Validation	Original Trials
Fibrinolysis-thrombosis	Hemostatic disorders	Neil Goldenberg	Hemodynamic monitoring	Methods	Clinical chemistry					
DNA	Cardiomyopathies	Luisa Mestroni	Gene array for cardiomyopathies	Genechip	PCR					
Insulin autoantibody europium assay	Type-1 diabetes	John Hutton	Early detection diagnosis	Analytic	Immunoassay					
mRNAs	COPD	Mark Geraci	Clinical trials surrogate endpoints	Biomarkers, methods	Multiplex expression profiling gene chip, PCR					
mRNAs	Pulmonary arterial disease	Norbert Voelkel	Translational justification, disease subtyping	Biomarkers, methods	Multiplex expression profiling gene chip, PCR					
VZV detection	Shingles/chicken pox	Randy Cobrs	Saliva-based affinity assay	Diagnostic kit	IHC					
mRNAs	Lung cancer	Geraci/Hirsch/Wilfa	EGFR-TKI response	Biomarkers, methods	Multiplex expression profiling gene chip, PCR					
IGRP autoantibodies	Type-1 diabetes	John Hutton	Early detection/ diagnosis	Analytic, biomarker	Immunoassay					
Proprietary autoantibodies	Type-1 diabetes	John Hutton	Early detection/ diagnosis	Analytic, biomarker	Immunoassay					
Protein	Thyroid tumors	Steve Hunsucker	Drive decision for thyroidectomy	Analytic platform	Immunoassay					
Cytokine	Acute renal failure	Chaites Edelstein	ICU, point of care	Analytic, biomarker	Immunoassay					
Colate shunt	Degrees of liver failure	Gregory Everson	Point of care	Analytic, biomarker	Detection of traceable agents					
Antibody tethering technology	All	Kristi Anseth	Point of care and field immunoassay	Analytic platform	Immunoassay					
Protein	Metastatic cancer (melanoma)	Natalie Ahn	Detection, cancer stage determination	Biomarker, methods	IHC					
Protein	Breast, ovary and prostate cancers	Jeffrey Holt	Epigenetic/PI3K inhibitor responsive cancers	Biomarker, methods	Immunoassay					
Protein probe technology	Neurodegenerative	Chris Link	Probe for mis-folded / aggregated proteins	Analytic Platform						
Mutations of gene	Fanconi's anemia	Tin Tin Su	Diagnosis	Biomarker, methods						
CBS mutations	Hyperhomocystinuria	Jan Kraus	High-throughput genotyping	Analytic compositions array	Gene chip probe					

As of July 2007

All technologies listed are available for licensing.

In Progress

Completed

UNIVERSITY OF COLORADO MEDICAL DEVICE PIPELINE

Shape memory polymer orthopedic screw	Kenneth Gall	Not available	Knee replacement, ankle reconstruction	
Shape memory polymer arterial stent	Robin Shandas	Not available	Arterial stents	
Biocompatible neural electrodes	Diego Restrepo	Available for license	Electrostimulation; recording of neural activity	
Jet swirl nozzle	Ted Randolph	Available for license	Production of nanoscale polymer particles	
Knee brace	Kaz Gamada	Available for license	Non-surgical treatment of knee osteoarthritis	
Difficult Airway Tube (DAT)	Charles Little	Available for license	Endotracheal tube	
Force assistance device	Rodger Kraun	Not available	Walking rehabilitation therapy	
BioNet	Kevin Gifford	Available for license	Software for integrating wireless medical devices	
Optical diagnostic instrument for cancer	Alan Mickelson	Available for license	Diagnosis of cancerous tissue	
Activity monitor for bedridden patients	James Russell	Available for license	Fall prevention for bedridden patients	
Tissue fusion device	Michael Larson	Available for license	Novel device for fusing nasal tissue after septo and rhinoplasty	
Myelin-mapping MRI	Yiping Du	Available for license	Diagnosis of neuro-degenerative disease	
Antibiotic polymer coating	Kristi Anseth	Available for license	Antibiotic coating for orthopedic hardware, implants, etc.	n/a
Non-toxic biofilm inhibitor	Robert Hodges	Available for license	Medical devices and implants	n/a
Wireless powered, electronic medical devices	Zane Popovic	Available for license	EKG/ECC, drug delivery, data collection, neurological monitoring	
Electrostatic co-extrusion device	Thomas Anchochoquy	Available for license	Encapsulation method/device for drug development, cosmetics	
Ultrasound particle velocimetry imaging	Shandas-Hertzberg	Available for license	Measurement of blood flow velocity components	
Optical biopsy needle and probe	Priya Werahera	Available for license	Detection of prostate cancer	
Digital stethoscope	Howard Weinberger	Available for license	Detection of cardiac abnormalities	
Epilepsy electrode	David Vansichle	Available for license	Seizure monitoring and locus mapping	
Neural shunt	Dylaan Dowlati	Available for license	Improved shunt design, blockage prevention	
Hydrogel implants	Kristi Anseth	Available for license	Plastic and reconstructive surgery, bone regeneration	
Polymer system for tissue regeneration	Kristi Anseth	Available for license	Tissue and organ regeneration	
Nanotube-reinforced collagen composite	Wei Tau	Available for license	Improved vascular graft	

UNIVERSITY OF COLORADO THERAPEUTIC COMPOUNDS IN CLINICAL TRIALS

Drug	Market	License	IND	Phase I	Phase II	Phase III	Approved
Kineret™	rheumatoid arthritis	Amgen					
Macugen™	wet age-related macular degeneration	OSI/EyeTech					
Zostavax™	post-herpetic neuralgia	Merck					
VZV vaccine	post-herpetic neuralgia	GSK					
Botulinum A use	neurogenic overactive bladder	Allergan					
Macugen®	diabetic macular edema	OSI/EyeTech					
GI-4000	immunotherapy for cancers	GlobeImmune					
Kineret®	osteoarthritis	Amgen					
Kineret®	arthropathy, neurogenic urticaria	Amgen					
Macugen®	macular edema/central retinal vein occlusion	OSI/EyeTech					
Botulinum A use	idiopathic overactive bladder	Allergan					
AS1411	renal cancer and NSCLCs	Archemix/Anisoma					
RK-002/TroGel-2™	oral mucositis	Parkinerx/Infidion					
TVAX vaccine	prostate cancer	Geron					
ARC1779	anti-thrombotic	Archemix					
GI-5005	chronic hepatitis (HCV) viral infection	GlobeImmune					
Bucillamine	reperfusion injury from heart attack	KeyStone Biomedical					
Macugen®	Retinal angiooma in VHL syndrome	OSI/EyeTech					
Bucillamine	reperfusion injury—organ transplant	KeyStone Biomedical					
ARC183	CABG surgery (anti-coagulant)	Archemix/Nuvelo					
RH1	cancer	Allco Therapeutics					
NU172	CABG surgery (anti-coagulant)	Archemix/Nuvelo					
HNAX-GS	HIV vaccine	GlobeImmune					
AV411 (Ibudilast™)	neuropathic pain, opioid withdrawal	Avigen					

Completed

In progress

As of July 2007