



University of Colorado
Boulder | Colorado Springs | Denver | Anschutz Medical Campus
TECHNOLOGY TRANSFER OFFICE

80%
OF STARTUPS
ARE STILL
OPERATING

96 HAVE
OPERATIONS IN
COLORADO

8 HAVE
GONE PUBLIC

19 HAVE BEEN
ACQUIRED BY
PUBLIC COMPANIES

FY2013-14
CU STARTUPS RAISED OVER

\$70M

IN FOLLOW-ON FUNDING,

(federal and state grants, venture financing and SBIR/STTR funding)

\$6.2B

TOTAL FOLLOW-ON FUNDING.

cu.edu/techtransfer

20 YEARS **141** COMPANIES

Startups at the University of Colorado

BIOTECH 89

2C Technologies
3QMatrix
Acceleration Biopharma
Agada Pharma (fka Newellink)
AKTIV-DRY
AlloGenesis
AmideBio
ApopLogic Pharma
Apsara (fka Allerion Biologics)
ARCA biopharma
Archemix
Aurora Oncology
BaroFold
BioAMPS International
BioOptix (fka AlphaSniffer)
BioRelix
BioTechCures
Biotricity Medical
Cardiac Access
Cardioceutics (fka Keystone Biomedical)
Caveo Therapeutics
Cello Bioengineering
Clarimedix
ClarVista Medical
Colorado Cancer Therapeutics
CU Toxicology (fka Claro Scientific)
CycleGen
Dharmacon
EndoShape
EnteroTrack
Evolutionary Genomics (fka Genoplex)
Eyeteck Pharma
FlashBack Technologies
Galaxy Ophthalmics
GlobImmune
HepQuant
Hiberna
ICVrx
Illumasonix
ImmuRx
InDevR
K T Pharma (fka Serendipity Pharma)
Locomotion
Lohocla
MedShape Solutions
MetaCytolytics
Mile High Ophthalmics
MiRagen Therapeutics
MobileAssay
Mosaic Biosciences
Myogen
Nanoly Biosciences
NeXstar
OcuGen
OcuTherix
OMNI Bio Pharma (fka APRO Biopharma)
Oncolight
Oncotherix (fka Peak BioSciences)
OnKure
Peak Age
PeptiVir
PhosphoSolutions
Precision Biopsy
ProTechSure Scientific
ProteLight Pharma
(Jiangsu, Jiangyin, Changchun)
Proteome Resources
Qgenta
Recreo Pharmaceuticals
Replidyne
Ribozyme Pharma
Rx Kinetix
Sentry BioSciences
Shape Ophthalmics
ShapeTech
Sierra Neuropharma
SixOne Solutions
SmartMove (fka Physical Activity Innovations)
SomaLogic

SuviCa
Taiga Biotech
Taligen Therapeutics
Tissue Fusion
Tissue Genetics
Trasona
V-CLIP Pharma
Western States Biopharma
Windom Peak Pharma
Xalud Therapeutics
Xeris Pharma

SOFTWARE 19

AgentSheets
BlueSun (fka TraumTech)
Clear Creek Networks
eCortex
EdTrex
Gogy
Knowledge Analysis Technologies
LineRate Systems
LSVT Global (fka GleeCo)
Mentor InterActive
OctalMedia
Personalogy
Propellant Fracturing & Stimulation (PFS)
Securics
SeeHear
Syberenety
TechoShark
TerraSpark Geosciences
Touch of Life (TOLtech)

PHYSICAL SCIENCES/ ENGINEERING 18

2B Tech
Advanced Conductor Technologies
ALD NanoSolutions
ASTRA LiTe
Cann-Ease
CDM Optics
Chiario Tech
CLP Microtechnologies
ColdQuanta
ColorLink
Displaytech
Double Helix
FAST Ceramics
Focused X-Rays
Free Power Technologies
KM Labs
Phiar
PowerSicel

ENERGY/ CLEANTECH 16

AquaLex Group (fka Meridian Water)
BioElectric (BEI)
BioSIPs
Copernican Energy
HELIOS TorqueFusion (fka Tigon EnerTec)
ION Engineering
Jovion Corp.
OPX Biotechnologies
Phobos Energy
QCoefficient (fka Clean Urban Energy/CUE)
QFlux
RedWave Energy
Solid Power
Tusaar
VG Energy
XenoPur Systems

This poster features startups formed based on CU research; two companies also emerge from CU's many campus-based entrepreneurship programs and centers - please contact CU's campuses for more information.

CU TECH TRANSFER

Spring
2015

Background

The CU Technology Transfer Office facilitates the commercialization of innovations discovered through CU research by identifying and transferring intellectual property assets. The office was reorganized in 2002, and activities have grown to a high, sustained volume of inventions, licenses and startup companies.

Performance + Effectiveness

The CU system was ranked 17th nationally in gross licensing income in 2012 among all university systems. In the last decade, the CU systems ranked in the top 20 nationally in gross licensing income five times. CU is among the top 10 American universities (with a medical school) in the number of startup companies (excludes MIT, Cal Tech, etc.).

CU Tech Transfer operates at a lower staffing and patent budget than most peer public institutions with a medical school.* The CU patent budget is a third of the size of its peer institutions, and the CU staffing level is below average, yet CU Tech Transfer's licensing and startup rate is well above average. Over a nine year period, CU Tech Transfer has averaged 4 times as many exclusive license agreements per tech transfer employee than University of Washington and University of Wisconsin (WARF). (Of 11 peer institutions identified for CU, only two have more exclusive licenses per FTE: University of Florida, a well-funded, best-practices operation, and UNC Chapel Hill, which has an even tighter staffing budget than CU.)

Over this 9 year period, CU Tech Transfer has averaged more exclusive startup companies per FTE than any of its 11 peer institutions. Only two of these peers have a higher number of new invention disclosures per FTE (University of Florida, a well-funded, best-practices operation, and University of Pittsburgh.)

CU startups also survive at an above-average rate, as covered in both local and national media (bizwest.com/cu-technology-spinoffs-survive-at-higher-rates-2/, techtransfercentral.com/reprints/ttt/714-fuel-start-ups-with-lasting-power/):

141 Companies formed from CU technology

28 Inactive companies

10 Technologies re-licensed from inactive companies

113 Companies operational (stand-alone or subsidiary/merged companies)

96 Active companies with operations in Colorado

82% Five-year survival rate of CU startups (compared to national five-year survival rate of only 48%)

\$6.2B Total follow-on funding (including VC investment) raised by CU startups



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TECHNOLOGY TRANSFER OFFICE

More Info

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cu.edu/techtransfer

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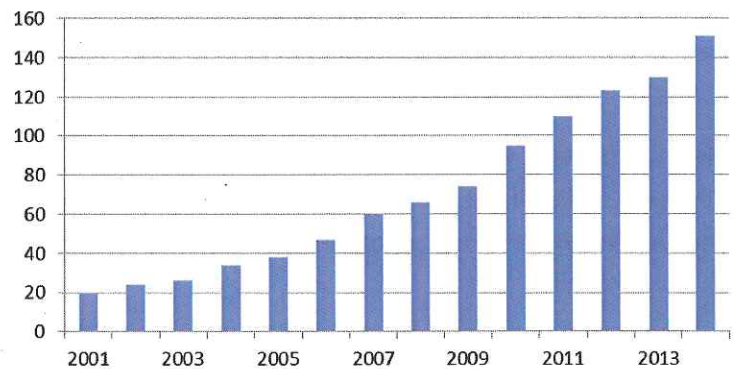
CU's Growing Portfolio

CU Tech Transfer has seen steady growth since 2001 in the number of active exclusive licenses, each of which signifies a technology being developed by an industry partner dedicating resources and funding to the technology (see top right).

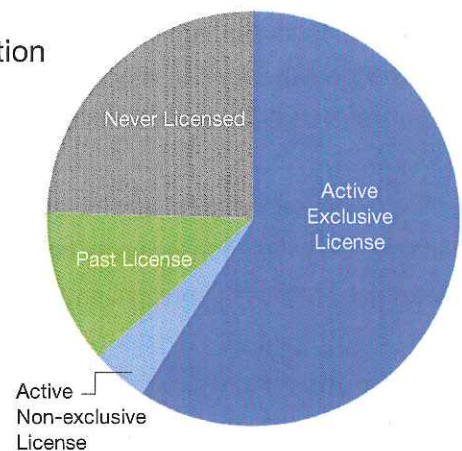
CU Tech Transfer has also chosen to take a selective, strategic approach to patenting technologies. Because of this approach, the University of Colorado has achieved a high patent utilization rate, indicating that the intellectual property owned by CU (457 active U.S. patents as of January 2015) is not sitting on the shelf, but rather is gathering investment and moving towards development (center right).

Overall, CU Tech Transfer has seen steady growth in all of its key performance measurements (although license revenues have fluctuated based on the state of the economy, as well as liquidity and other royalty-related events), indicating that it has become a mature, effective organization (bottom right).

CU Exclusive Licenses in Force



CU Patent Utilization



CU Tech Transfer Performance

	09-10	10-11	11-12	12-13	13-14
Inventions	233	250	226	239	250
New patents	90	86	93	99	100
Total options/licenses	59	51	49	44	59
Exclusive options/licenses	41	41	34	28	46
License revenue \$MM	\$2.4	\$3.9	\$32.8	\$16.5	\$4.3
Start-up companies	9	11	10	8	9

**The 11 institutions selected as peers for the CU system (all research-intensive public institutions with a medical school): U. of Arizona, U. of Florida, U. of Illinois at Urbana-Champaign, U. of Michigan, U. of Minnesota, Penn State, U. of Pittsburgh, UNC-Chapel Hill, SUNY Research, U. Washington, U. of Wisconsin, Madison (WARF).*



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