Healthcare Innovation:
A New Approach to Commercialization

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The **University of Colorado** is one of the **TOP TEN** public universities in the U.S. for drug discovery, with four FDA-approved drugs on the market for seven indications:

- Zostavax®
- Botox®
- Kineret®
- Macugen®

**University of Colorado**
Boulder | Colorado Springs | Denver | Anschutz Medical Campus

**Technology Transfer Office**

Tap into biotechnology at CU:
www.cu.edu/techtransfer
303-724-0222
CU Faculty have an Excellent Track Record of Biomedical Innovation

**Notable firsts:**

- Worlds first liver transplant
- Invented the first vaccine for shingles
- Classification and numbering system for human chromosomes
- Genetic factor that converts normal cells into cancer cells
- Discovered lymphocytes are preprogrammed to respond to antigens, the foundation of modern immunology
- Human cancer gene function
- Discovered blood proteins that prevent the AIDS virus from reproducing and spreading to healthy cells
CU Innovations have Produced Numerous Commercial & Pipeline Products

**Therapeutics**

- Macugen
- Kineret® (anakinra)
- Zostavax®
- Botox®

**Diagnostics**

- veristrat® Diagnostics for Autoimmunity

**Medical Device**

- Filtek™ Supreme Ultra
- N'Durance®

**Clinical Pipeline:** >20 phase I and phase II studies ongoing, HZ/su vaccine phase III complete

**Preclinical Pipeline:** ~65 drug candidates, ~60 med device, ~40 diagnostics
The Next Revolution in Healthcare Innovation

**Background:** Every 50 years, healthcare undergoes a major revolution based on the trends in the era

- 1870s-- healthcare was revolutionized by the germ theory of disease and promotion of public health efforts
- 1920s-- the discovery of penicillin propelled forward the use of medication as treatment for disease
- 1970s, use of the randomized controlled trial (RCT) ushered in an era of evidence-based medicine.

As we approach 2020, the trend toward big data, tools and systemization of care in combination with the connected patient will revolutionize the way hospitals and physicians work and, most importantly, the way patients are treated.

**The Opportunity:** to be at the forefront of developing and testing new healthcare innovations through internal development or partnerships that will revolutionize the way that care is being delivered.
A New Model for Innovation

Business Development

Innovation Development

Intellectual Property & Licensing Management
Innovation and Entrepreneurship

- Fundamentals: Entrepreneurial Education Curriculum & Culture
- Opportunity Identification: Vetting of Ideas
- Accelerating: Incubating
- Launch: AMC Accelerator

A virtuous cycle of innovation and entrepreneurship
Processes for Innovation

Supporting ideas from ideation through to launch
National Innovation Partner

• Strategy: Contract with a national profile accelerator
  – Strong healthcare practice & experience
  – National network of mentors and investors
  – Immediate program credibility
Many Resources Brought To Bear
A UNIQUE ENVIRONMENT

A remarkable lab for testing, evaluating, and piloting health care innovations

- A shared electronic health record platform
- Ability to quickly implement and test novel technologies both horizontally and vertically within our system
- Exceptional leadership team with informatics, analytics and implementation expertise
OUR PARTNERS
That's how we work

- Current Contracts: AgileMD, burstIQ, ScribeAmerica, Anmedix
- In Talks: Medtronic, RxRevu, Janssen, Tectonic
- Expressed Interest: Axlepa, Advancing Healthcare Analytics, Google, PlayerLYNC, BlueCross BlueShield

University of Colorado CARE Innovation Center™
Children’s Hospital Colorado
Center for Innovation

Strategic Vision: An innovation hub that provides education, resources and services to enable and encourage the efficient and effective transfer of knowledge and products developed at Children’s Hospital Colorado to the private sector for the benefit of pediatric patients worldwide.