Welcome

I’m happy to share with you Cornell’s technology transfer activities for FY2009 by the Cornell Center for Technology Enterprise and Commercialization (CCTEC). In this report, you can read about some of our new technologies (p.8), new businesses founded on the licensing of Cornell technologies (p.4), and selected commercial products based on licensed Cornell technologies in previous years (p.6). The mission of CCTEC is to transfer innovative Cornell technologies to industry to enable the development of new beneficial products and services for growth and competitiveness, and to create new technology-based businesses that will drive job and wealth creation.

In FY2009, CCTEC received a record high number of 363 disclosures of new inventions and copyrights – an important outcome of CCTEC’s continuing outreach efforts (p. 10). Despite a very challenging financial environment for the entire FY2009, Cornell’s technology transfer remained active in licensing and pursuing patent protection of Cornell’s valuable technologies (p. 14), although the financial terms and the licensing revenues from existing licenses experienced a moderate decline (p. 15) reflecting the financial reality of the year.
Cornell is committed to regional economic development. On p. 4 of this report, three new businesses, Reparo, Inc., GeneWeave Biosciences and InFlora, Inc., that were founded in FY2009 and are based in New York are highlighted. Our outreach and economic development activities (briefly listed on p. 10 - 13) attracted 850 participants to CCTEC events and workshops. Online, we created the Cornell Angel Network to bring Cornellians and Cornell startups together and our web site received over 60,000 visits from over 90 countries. As a follow up to our Cornell BioPharma Network launched in FY2008, a second industry- & technology- based network, Cornell NanoMat Network, was launched in November of 2008 to encourage Cornellians who are interested in nanotechnology and related material sciences to network online.

I hope you enjoy this report and I welcome your comments and suggestions.

Alan Paau, MBA, PhD, Executive Director and Vice Provost
Our Mission

Partner with industry to develop Cornell’s technologies into products and services for the public good

Leverage Cornell’s intellectual property to promote entrepreneurial opportunities and regional economic development

Provide technology transfer services to Cornell faculty and researchers
Table of Contents

6 New Business Formation
8 Selected Cornell Products
10 Emerging Technologies
12 Outreach & Economic Development
16 Technology Transfer Activity
18 Technology Transfer Advisory Committee
In FY2009, CCTEC launched three new businesses in the state of New York that are based on licensed Cornell technologies.

Reparo Therapy Inc. is founded on a discovery made at Weill Cornell Medical College that inhibition of CUL4-Ubiquitin Ligase increases the life time and activities of important Nucleotide Excision Repair (NER) mechanism and, therefore, enhances the ability of cells to repair DNA damages caused by UV or chemical carcinogens.

Currently, Reparo is seeking development partners and investors to develop consumer and clinical ingredients and products. Possibilities include DNA repair enhancing cream to treat sunburn and to prevent skin cancer, DNA repair enhancing nasal spray for lung cancer prevention, and DNA repair enhancing anti-aging cosmeceuticals.
A new way of finding genes

GeneWeave Biosciences is developing products based on a bacterial detection technology invented at Cornell University by co-founders Diego Rey and Leonardo Teixeira, graduate students in Cornell’s Departments of Biomedical Engineering and Microbiology. Rey and Teixeira invented GeneWeave’s core technology in 2007 with promise of becoming a fast, simple, reliable, and low-cost molecular test for drug resistant and toxic bacteria. In 2007, GeneWeave was officially launched along with co-founder and CEO, Jason Springs, a Cornell Johnson School of Management graduate.

GeneWeave Biosciences is producing a diagnostic reagent using phages—viruses that only infect bacteria and are harmless to humans—that can turn low-cost immunoassay diagnostic tests into rapid molecular diagnostics. The company’s new approach will drop the production cost of molecular diagnostics by more than an order of magnitude. The first product will be a MRSA screening kit that can reduce test production cost by 20x, cut the cost of screening in half for hospitals, and for the first time enable most midsize/smaller hospitals to afford rapid molecular diagnostics.

Unique ornamental plants

InFlora is founded to commercialize a collection of unique, woody, ornamental plants developed at Cornell. Woody ornamentals are trees, shrubs and woody vines that come back every year and form a hard, woodlike outer tissue on their stems and branches. These plants are typically the backbone of landscape and the flowers are also used in creative floral arrangements. As many people use ornamentals to define outdoor living spaces, there is considerable demand for new types and colors of decorative plants.

Currently, InFlora has several selections of plants that are being commercialized and they will be available to purchase from nurseries in 2010.
CCTEC works with industry partners to develop Cornell technologies into products that are useful for society. Here we feature four products currently on the market based on innovations by Cornell researchers.

**Champion™ pET SUMO Protein Expression System**

**Invitrogen/Life Technologies**

The Champion™ pET SUMO Protein Expression System is an important tool for high-level soluble expression of proteins and peptides with native N-termini. The companion SUMO Protease enzyme works with great specificity and efficiency on most substrates in a wide range of temperatures without undue damage to the protein of interest. The Champion™ pET SUMO Protein Expression System uses a small ubiquitin-like modifier (SUMO) to allow expression, purification, and generation of native proteins in *E. coli*.

The technology underlying the product was invented by Dr. Christopher Lima at the Weill Cornell Medical College.
Canine Influenza Vaccine, H3N8
Intervet/Schering-Plough Animal Health

This is the first vaccine against canine influenza virus, which was first identified in the U.S. in 2004. The vaccine reduces the incidence and severity of lung lesions as well as the duration of coughing and viral shedding. The product is based on research, in part, by Dr. Edward Dubovi of the College of Veterinary Medicine and was granted a conditional license by the United States Department of Agriculture for use by veterinarians in the United States. It is administered by injection and is recommended for use in healthy dogs at six weeks of age or older.

Optiphos®
Phytex, LLC

OptiPhos® is based on the research of Dr. Xingen Lei in the Department of Animal Science at Cornell. Optiphos® is an advanced phytase that releases more phosphorous from feed in poultry and swine than other phytase products. This results in an enhanced diet for the animal as inorganic phosphate is replaced by food energy. In addition, OptiPhos® benefits the environment as substantially less phosphorus is egested by the animals to the environment.

OptiPhos® is available in pelleted, non-pelleted and liquid forms. OptiPhos® was approved by the United States Food and Drug Administration for animal uses.

MicroMounts™ and MicroMeshes™
Mitigen, LLC

Based on technologies invented by Dr. Robert Thorne of Cornell’s Department of Physics, MicroMounts™ and MicroMesh™ Mounts are tools for manipulating and mounting samples for crystallography and other applications.

MicroMounts™ manipulate and mount small molecule/inorganic crystals and protein/nucleic acid/virus crystals for X-ray crystallography. MicroMesh™ Mounts are ideal for microcrystal crystallography and microdiffraction experiments.
Emerging Technologies

Cornell remains on the forefront of world-changing research. These five new inventions disclosed in FY2009 have the potential to someday become products to benefit health care, agriculture and consumers.

Cold processed whey proteins

**Dr. Syed Rizvi**
College of Agriculture and Life Sciences

Whey proteins are useful for food applications due to their high nutritional value and functional properties. Traditional whey protein preparations, however, require high temperature, thus limiting their applications from products containing heat sensitive ingredients. A novel process developed by Dr. Syed S.H. Rizvi and Khanitta Manoi of the College of Agriculture and Life Sciences can produce a whey protein preparation that is cold-gelling and more soluble.

The new whey protein preparation can be used as a thickening/gelling agent, fat substitute or emulsifier. Since this new preparation has a smooth creamy texture that’s appealing to consumers, it could be an alternative to mayonnaise and margarine as well as in food that is exposed to a wide range of temperatures.

Composite tissue engineered intervertebral disc with self-assembled annular alignment

**Dr. Lawrence Bonassar**
College of Engineering

**Dr. Roger Hartl**
Weill Cornell Medical College

Based on a collaboration between Dr. Larry Bonassar, College of Engineering, and Dr. Roger Hartl, Weill Cornell Medical College, this invention is a tissue-engineered intervertebral disc that can be used for spinal disc replacement. Unlike current solutions, which use metal and plastic implants or merely attempt to repair damaged discs, this disc is formed through a self-assembly process of collagen gel and collagen fibrils. With tests showing good tolerance of the discs in animals (no signs of inflammation or foreign body response), the technology holds great promise for treatment of spinal maladies.
Cytokine fusion proteins
Dr. Bettina Wagner
College of Veterinary Medicine
Useful antibodies are often developed for proteins expressed using recombinant DNA technology. Dr. Bettina Wagner of the College of Veterinary Medicine, has developed a novel system and method of using interleukin 4 (IL-4) as a tag on recombinant proteins to generate highly specific antibodies to address targets that have thus far been proven difficult to develop antibodies against. This technology can be a platform for the development of monoclonal antibodies as potential therapeutics, research reagents, or for disease diagnosis.

Neuromuscular blocking drugs
Dr. John Savarese
Weill Cornell Medical College
Neuromuscular blocking agents are important adjuncts to anesthetic management and treatment. Novel compounds invented in part by Dr. John Savarese, chair of the Weill Cornell Medical College Department of Anesthesiology, were designed as ultra-short acting non-depolarizing neuromuscular blockers. One of these compounds, gantacurium chloride, will likely progress to phase III human clinical trial later this year.

Green nanomaterials and methods
Dr. Anil Netravali
Dr. Daehwan Cho
College of Human Ecology
Dr. Yong Joo
College of Engineering
Researchers at Cornell have developed novel methods to make new functional "green" fibers. Using various blends including soy protein isolate and polyvinyl alcohol, the materials are electrospun into fibers with diameters measured in nanometers. Unlike currently used electrospun cellulose nanofibers that require various toxic solvents for their manufacture, all of the materials forming the novel fibers can be processed using only water as a solvent. For the first time, products such as air filters which incorporate nanofibers can be "green" and fully biodegradable.
Outreach & Economic Development

Throughout FY2009, CCTEC promoted outreach and networking activities and took part in various regional, national and global economic development events. Over 850 attendees participated in events organized or hosted by CCTEC. As part of Cornell University’s commitment to fulfill its land grant missions and to promote regional economic vitality, CCTEC hosts events and attends tradeshows and conferences to showcase Cornell technologies to regional businesses.

**JULY 2008**
- Joint planning conference with the Progress4Growth Initiative in the development of business partnership opportunities for the Southern Tier counties in upstate New York
- Ithaca City - Tompkins County Area Development collaboration conference
- Presentation on “Technology Transfer and Commercialization” at the Universidad Internacional Menendez Pelayo, Santander, Spain

**AUGUST 2008**
- CCTEC hospitality booth at the Empire Farm Days in Seneca Falls, NY
- Meeting of the Economic Development Coordinating Group with regional representatives engaging in economic development activities at CCTEC
- CCTEC hospitality booth at the New York State Fair as part of the Cornell University pavilion

**SEPTEMBER 2008**
- CCTEC IP & Pasta event with the Department of Radiology at Weill Cornell Medical College
- CCTEC Seminar & Social Hour with Johnson School MBAs
- Technology Business & Resource Expo at Cornell University
- Marketing Initiative Committee at Tompkins County Area Development
- Presentation on “Technology Ecosystem: Elements for Building Technology Industry Clusters” at the Science and Innovation Week in Mexico City, Mexico
- Presentations on “New Cornell Technologies for Cancer Management” and on “Cornell Wireless Communication Technologies” at the 2008 Taipei International Invention Show & Technomart in Taiwan
- Presentation on “Roles of Academic Technology Transfer in Knowledge-Based Economic Development” at the International Technology Transfer Seminar in Taipei, Taiwan

CCTEC IP & Pizza with the College of Agriculture & Life Sciences.
**OCTOBER 2008**
- CCTEC Cornell Technology Venture Forum 2008
- CCTEC IP & Pizza with the College of Agriculture & Life Sciences
- CCTEC Seminar & Social Hour with Johnson School MBAs
- Due Diligence Workshop with Tech Garden of CNY as co-host in Ithaca, NY
- Presentation at the BizBio: “Rx For A Struggling Economy” Conference in Syracuse, NY
- Meeting of the Economic Development Coordinating Group with regional representatives engaging in economic development activities at CCTEC
- Grants for Growth Advisory Committee review of grant applications in Syracuse, NY
- The 9th Annual Nanobiotechnology Symposium
- Presentation on “Open Innovation as a Business Model – Roles of Academic Technology Transfer” at the Bio-Venture Capital Forum in Dalian, China

**NOVEMBER 2008**
- CCTEC Startup Boot Camp at Weill Cornell Medical College
- CCTEC IP & Pizza with the Department of Molecular Biology & Genetics

**DECEMBER 2008**
- Ithaca City - Tompkins County Area Development collaboration conference
- US-China-India Innovation Partnerships Conference in Boston, MA

**JANUARY 2009**
- Ithaca Downtown Partnerships Alliance Meeting
- Startups presentations to Big Red Ventures
- CCTEC visit by JGSM MBA class of Professor Wes Sine
- Meeting of the Economic Development Coordinating Group with regional representatives engaging in economic development activities at CCTEC
- Cornell University - City Collaborative Development Meeting
- Ithaca City - Tompkins County Area Development (TCAD) Collaborative meeting
**FEBRUARY 2009**

- CCTEC Seminar & Social Hour with Johnson School MBAs
- CCTEC Inventors Roundtable on cancer diagnostics at Weill Cornell Medical College
- CCTEC IP & Pizza with the College of Human Ecology
- Presentation on “Biotech’s Future in New York” at the BizBio: Fight for a Healthy Biotech Industry Conference in Albany, NY
- Presentation at Leadership Tompkins
- Meeting of the Economic Development Coordinating Group with regional representatives engaging in economic development activities at CCTEC
- Co-organized the “What, Who and How of SBIR/STTR Grants and other Public & Private Funding Sources” at Weill Cornell Medical College
- Cornell Asian Alumni Association Annual Celebration in New York City

**MARCH 2009**

- CCTEC Seminar & Social Hour with Johnson School MBAs
- CCTEC IP & Pasta with the Clinical & Translational Science Center at Weill Cornell Medical College
- CCTEC IP & Pizza with the Department of Chemistry
- Stimulus Package Town Hall Meeting in Syracuse, NY
- Presentation on “Advance Technologies in the Development of Technology Clusters” at the Advances in Bioprocessing: Cultivating Economic Growth Conference in Syracuse, NY
- Meeting of the Economic Development Coordinating Group with regional representatives engaging in economic development activities at CCTEC
- Economic Roundtable hosted by Senator Kirsten Gillibrand
- Meeting with Congressman Hinchey at Primet Precision Materials
- Presentation on “Academic Technology Transfer and Commercialization” to the Consejo de Innovacion of Chile in Santiago, Chile

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A Cornell inventor explains his technology to an attendee at CCTEC’s New Business & Emerging Technology Showcase.

Audience members listen to a panel at Startup Boot Camp held at the Cornell campus in Ithaca.
APRIL 2009
• Presentation on “Academic Institutions as Partners for Open Innovation” at the Rockefeller University Biotechnology Forum in New York City
• CCTEC IP & Pizza with the NYS Agricultural Experiment Station in Geneva, NY
• CCTEC IP & Pizza with the College of Veterinary Medicine
• CCTEC New Business & Emerging Technology Showcase at the Entrepreneurship@Cornell Celebration 2009
• CCTEC Seminar & Social Hour with Johnson School MBAs
• CCTEC hospitality booth at the Technology Business & Resource Expo
• Metropolitan Development Association of Syracuse and Central New York Annual Meeting and Luncheon in Syracuse, NY
• President David Skorton’s annual address to the Joint Service Club
• Meeting of the Economic Development Coordinating Group with regional representatives engaging in economic development activities at CCTEC
• Pipeline4Progress Action Plan Launch Celebration in Binghampton, NY
• Joint Cornell’s EDA University Center and Pipeline4Progress Conference on “Young Workers Community Capacity, and an Entrepreneurial Climate”
• Tompkins County Area Development Annual Meeting
• Promotion services for the Cornell Business & Medicine Symposium at Weill Cornell Medical College
• Presentations at the New York Biotechnology Association 18th Annual Meeting
• Presentation on the “Industry-Ivory Tower” panel at the Business In Medicine Conference at the Rockefeller University
• Presentation at the IEEE/NIH 2009 Life Science Systems and Application Workshop in Bethesda, MD

MAY 2009
• CCTEC hospitality booth at the Annual Showcase of Cornell Center for Life Science Enterprise
• Cornell technology presentations at the SmartStart UNYTECH Venture Forum in Albany, New York.

JUNE 2009
• CCTEC Startup Boot Camp
• CCTEC hospitality booth at Cornell University Reunion
• Meeting of the Economic Development Coordinating Group with regional representatives engaging in economic development activities at CCTEC
• Audio conference presentation on “Time Saving Tactics for Technology Transfer Professionals: Achieve Success While Doing More with Less” hosted by NCET2
• Presentation at Consejo de Innovacion of Chile on “Intellectual Property and Conflict Management in Academic Institutions” in Santiago, Chile

CCTEC’s New Business & Emerging Technology Showcase attendees look at posters of Cornell startups and emerging technologies.
Technology Transfer Activity*

IP Disclosures
In FY 2009 CCTEC received 418 disclosures for 10 copyrights, 125 plants, and 283 inventions.

Applications

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Patents

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<tr>
<td>2009</td>
<td>75</td>
<td>96</td>
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Agreements
In FY 2009, CCTEC completed a total of 405 agreements related to technology management.

Licenses of Inventions & Copyrights

*Technology transfer activity metrics from FY2007 and FY2008 may be different from those in previous reports due to post-report adjustments.
Expenses*

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<th>2007</th>
<th>2008</th>
<th>2009</th>
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*Extraordinary income includes non-recurring items such as sale of equity and payments resolving patent litigation cases.

Expenses*

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*Extraordinary expenses include expenses for litigation.

Mandatory Distributions

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As of the end of FY 2009, Cornell holds private equity in 27 companies with licensed Cornell technology, the value of which cannot be reliably estimated at this time. Cornell holds convertible notes in the principal amount of $1,536,070.
Advisory Committee

The Technology Transfer Advisory Committee (TTAC) provides advice and guidance to Cornell leadership and the Cornell Center for Technology Enterprise and Commercialization (CCTEC) on issues related to academic technology transfer. The TTAC provides general oversight on CCTEC’s activities to advance Cornell’s land grant mission to make its research available to benefit society.

FACULTY
Professor C.C. Chu, College of Human Ecology/2010
Professor Geoff Coates, College of Arts & Sciences/2011
Professor Steven Gross, Weill Cornell Medical College/2010
Professor Dan Luo, College of Agriculture & Life Sciences/2011
Professor Rajit Manohar, College of Engineering/2010
Professor John Schimenti, College of Veterinary Medicine/2011
Professor Robert Seem, College of Agriculture & Life Sciences - Geneva/2010
Professor Randi Silver, Weill Cornell Medical College/2011

TRUSTEES/OVERSEERS/ALUMNI
Trustee Emeritus, John Alexander/2010
Overseer, Madelyn Antoncic/2011
Chairman of the Cornell Council Technology Transfer Committee, Andrew Firlik, ex officio
Trustee and Overseer, Samuel Fleming/2010
Overseer, Len Harlan/2010
Trustee, Marcus Loo/2011
Trustee, Kevin McGovern/2011
Chairman of the Board of Trustees and Overseers, Peter Meinig, ex officio
Alumnus, Phil Proujansky/2011

CORNELL ADMINISTRATION
Senior Vice Provost for Research, Robert Buhrman (Chair), ex officio
Provost, Kent Fuchs, ex officio
Executive Vice President for Finance and Administration, Steve Golding, ex officio
Provost for Medical Affairs and Dean of the Weill Cornell Medical College, Antonio Gotto, ex officio
Dean of the Graduate School of Medical Sciences, David Hajjar, ex officio
Interim Dean of the College of Engineering, Christopher Ober, ex officio
Dean of the College of Agriculture & Life Sciences, Susan Henry, ex officio
Vice President for Government and Community Relations, Stephen Johnson, ex officio
Dean of the College of Veterinary Medicine, Michael Kotlikoff, ex officio
Dean of the College of Arts and Sciences, Peter Lepage, ex officio
Dean of the College of Human Ecology, Alan Mathios, ex officio
University Counsel, James Mingle, ex officio
Vice Provost for Technology Transfer and Economic Development, Alan Paau (Secretary), ex officio
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