



University at Buffalo
The State University of New York

Inventors
and
Entrepreneurs
Reception

Thursday, April 28, 2016
4:00-6:00 PM
Saturn Club

OFFICE OF SCIENCE, TECHNOLOGY
TRANSFER & ECONOMIC OUTREACH [STOR]

 **University at Buffalo**
The State University of New York



Welcoming Remarks

Robert J. Genco
Vice Provost, STOR



Charles F. Zukoski

Provost and Executive Vice President, Academic Affairs



UB Inventors Named on U.S. Patents

Visionary Innovator Awards

Entrepreneurial Spirit Awards

Jeffrey A. Dunbar

Director, STOR



Incubator Entrants/Graduates

tenX Client Recognition

2016 eLab Fellowship Awards

Kimberly Kohl

Business Manager, STOR



Technology Innovation Leadership Award

Satish K. Tripathi

President, University at Buffalo



Closing Remarks

Venu Govindaraju

Vice President, Research and Economic Development

Technology Innovation Leadership Award

As a University that is focused on harnessing the entrepreneurial spirit of our faculty, it is imperative that we celebrate an individual whose leadership has resulted in the transition of basic research results into new products and companies. These faculty and staff innovations have created benefits beyond UB and New York State to make lives that are safer, fuller or easier because of these new commercialized products. We are proud to honor Robert Genco with the Technology Innovation Leadership Award.



The hallmark of a university is innovation. However, the gap between research results and commercialization is extremely difficult to overcome by faculty inventors. The Technology Innovation Leadership Award acknowledges the unrelenting efforts of Bob Genco, UB Vice Provost and Director of STOR, in assisting those faculty members who have moved beyond traditional scholarship to make their innovations available to society.

Working in partnership with the business community, STOR developed a Technology Transfer process that extended into our UB laboratories to effectively mentor faculty as emerging entrepreneurs. The success of this process is an enduring legacy and serves as a solid foundation for the future of technology transfer activities at UB.

Dr. Genco recently received the prestigious AADR Distinguished Scientist Award from the American Association for Dental Research (AADR). The award honors his contributions to periodontal disease research and its association to other diseases.

UB Inventors Named on U.S. Patents in 2015

8,994,005 **Vertically Correlated Clusters of Charged Quantum Dots for Optoelectronic Devices and Methods of Making Same**

UB Inventor: Andrei Sergeyev and Vladimir Mitin
Electrical Engineering

Collaborator: Gottfried Strasser
Formerly of Electrical Engineering

9,012,158 **Methods of Diagnosing Sjogren's Disease**

UB Inventor: Julian L. Ambrus
Medicine

Collaborator: Long Shen
Formerly of Medicine

9,028,603 **Anti-Fouling Coating Compositions and Methods for Preventing the Fouling of Surfaces**

UB Inventor: Michael Detty and Frank V. Bright
Chemistry

Collaborators: Stephanie Bennett and Anastasiya Sokolova
Formerly of Chemistry

9,029,332 **Cross-Linked Peptides and Proteins, Methods of Making Same, and Uses Thereof**

UB Inventor: Qing Lin
Chemistry

Collaborator: Avinash Muppidi
Formerly of Chemistry

UB Inventors Named on U.S. Patents in 2015

9,206,616 **Negative Stiffness Device and Method**

UB Inventor: Michael Constantinou and Andrei Reinhorn
Civil, Structural, and Environmental Engineering

Collaborators: Sarlis Apostolos
Formerly of Civil, Structural, and Environmental Engineering
David A. Lee and Douglas P. Taylor
Taylor Devices, Inc.

9,211,313 **Methods and Compound to Inhibit CA^{2+} Permeable Cation
Conductance**

UB Inventor: Frederick Sachs, Philip Gottlieb, and Tom Suchyna
Physiology and Biophysics

Collaborators: Seth Alper, David H. Vandorpe, and Chang Xu
Beth Israel Deaconess Medical Center

Visionary Innovators

UB Technologies Licensed to Industrial Partners in 2015

Less-Immunogenic Protein-Lipid Complexes and Methods of Making and Using the Same

UB Inventor: Sathy Balu-Iyer
Pharmaceutical Sciences

Industrial Partner: Zoetic Pharmaceuticals, Inc.

Lipidic Compositions and Their Use to Reduce Immunogenicity and Induce Tolerance to Complexed and Co-Administered Proteins

UB Inventor: Robert Straubinger
Pharmaceutical Sciences

Industrial Partner: Zoetic Pharmaceuticals, Inc.

Method and Composition of Formulation for Immune Tolerance Induction

UB Inventor: Richard Bankert
Pharmaceutical Sciences

Industrial Partner: Zoetic Pharmaceuticals, Inc.

Use of Phosphatidylserine Particles for Treating Autoimmune Conditions, Multiple Sclerosis

UB Inventor: Murali Ramanathan
Pharmaceutical Sciences

Industrial Partner: Zoetic Pharmaceuticals, Inc.

Anti-FcRn Therapy for Treatment of Auto/Allo Immune Conditions

UB Inventor: Joseph P. Balthasar
Pharmaceutical Sciences

Industrial Partner: Momenta Pharmaceuticals, Inc.

Visionary Innovators

UB Technologies Licensed to Industrial Partners in 2015

Workflow for Clinical Use of a Vascular Analysis Tool

UB Inventor: Hui Meng and Jianping Xiang
Mechanical and Aerospace Engineering
Industrial Partner: Toshiba Medical Systems, Corp.

T. Brucei Jumonji Proteins Possessing Arginine Demethylase Enzyme Activity

UB Inventor: John C. Fisk and Laurie K. Read
Microbiology and Immunology
Industrial Partner: CH3 BioSystems, LLC and RMT Epigenomex, Inc.

Microfabricated Calorimeter for RF Power Measurement

UB Inventor: Albert H. Titus
Biomedical Engineering
Industrial Partner: Bird Technologies Group, Inc.

An Electronic Approach to Improved Diagnostics in Cardiac Myocytes Derived from Induced Pluripotent Stem Cells

UB Inventor: Randall Rasmusson and Glenna Bett
Physiology and Biophysics
Industrial Partner: Cytocybernetics, Inc.

Entrepreneurial Spirit

2015 UB Faculty Entrepreneurs

CytoCybernetics, Inc.

Randall Rasmusson and Glenna Bett



CytoCybernetics has developed novel technology to improve drug safety screening in the preclinical trial phase and to reduce the cost and time to get a new medication to market. Their invention, the Cybercyte, will help to ensure that new drugs do not cause cardiac arrhythmias. This technology will increase the speed and reliability with which pharmaceutical companies can navigate the FDA approval process. CytoCybernetics is a Start Up NY company.

2016 eLab Fellowships

Naeim Khanjani – Infinite Clean Energy

SureshKumar Ramaiah – Speak Alley

Georgios Sklivanitis – Stego Pass

Katherine Czerniejewski – Tinker

Julie Fetzer – Tinker

Dana Voll – Tinker

Benjamin Sainsbury – Virtual Surgery Simulation

2015 UB Technology Incubator Company Entrants

Nuenz, Inc.

www.nuenz.com

Nuenz, Inc. manufactures nanofibers used in the production of composite materials. The nanofibers give the composite material exceptional strength, durability, and stability – all important components in materials building. Nuenz’s nanofibers are affordable – making the incorporation of nanostructures into composite materials commercially viable for a wider variety of manufacturers.



NE Innovation, LLC.

NE Innovation, LLC. Is developing wearable and sensory technology for textiles used to manufacture apparel and accessories for athletics and extreme sports. NE Innovation is a Start Up NY company.

Geocove, Inc.

www.geocove.com

Geocove provides scalable GIS consulting solutions for your business needs. Our team has years of experience designing and implementing geospatial technology systems to support government agencies, utilities and private industry. Geocove is a Start Up NY company.



KeepTruckin, Inc.

www.keeptruckin.com

KeepTruckin is building a mobile and web based electronic logs and fleet management platform for the trucking industry. By leveraging the smartphones and tablets that drivers already own, KeepTruckin gives commercial fleets the digital connectivity they need to improve operational efficiency without the cost and rigidity of proprietary hardware. Keep Truckin is a Start Up NY company.



2015 UB Biosciences Incubator Company Entrants

Sinapis Pharma, Inc.

www.sinapispharma.com

Sinapis Pharma has worldwide rights and IP protection for the low dose IV formulation of amphetamine to treat traumatic brain injury, stroke, epilepsy, and spinal cord injury. The demonstrated neuroprotective effect has a 12 hour therapeutic window, is a single low dose 24 hour infusion, non-toxic and non-addictive, has a stable shelf life, and is currently manufactured for pediatric ADHD.



NYCNMR, Inc.

www.nycnmr.com

The New York Center for Nanomedicine Research (NYCNMR) promotes and achieves efficient integration of cutting edge nanotechnologies and medical research. Their primary goal is the translation of nanotechnology to clinical applications leading to commercialization opportunities for economic development.



2015 UB Technology Incubator Company Graduates

Cloud62, Inc.

www.cloud62.com



Cloud62, Inc. is a consulting and business services company founded in 2011. They focus on solving the complex, real world problems of large companies implementing the Salesforce platform. They specialize in data migrations, cleansing efforts, custom development on the force.com platform, and ERP and financial systems integration. Cloud62, Inc. was recently acquired by Huron Consulting Group. Cloud62 is a Start Up NY company.

The Randforce Associates, LLC

www.randforce.com



A consulting firm specializing in new technological applications for oral history and multi-media documentary. Recently, a spin-off of The Randforce Associates, Talking Pictures, LLC, released Pixstori™, a social media mobile app to record audio stories about your photos linking image, voice, and text in "talking pictures."

GMBP Capital

www.gmbpcapital.com



GMBP Capital is an investment and quantitative financial research company founded in 2014. They design financial trading models which leverage market analytics and data driven insights to quantify market indicators using computer models and market trend studies.

UB STOR Highlights

Athenex



Athenex (formerly Kinex), founded on UB technology, has followed an ambitious growth track after raising tens of millions of dollars from Asian investors. The company has 325 employees globally and soon will see construction begin on two drug manufacturing and distribution facilities in China, as well as a \$200M drug manufacturing facility in Dunkirk, NY. There are several drugs in the pipeline, but most notably is a clinical trial on an oral form of a highly potent cancer drug. Cancer medication taken orally is expected to be more tolerable, convenient, and effective for patients.

For-Robin



For-Robin, Inc, founded in 2012 around technology developed at UB, whose primary mission is developing treatments for breast cancer (BrCa) patients. For-Robin has been selected by NCI to exhibit and showcase their technology at the upcoming Biotechnology Innovation Organization (BIO). This opportunity will provide access to business development executives from around the globe, as well as investors. Other accomplishments from this past year include: antibody humanization, and antibody-drug conjugate synthetization and in vitro testing.

Peptidream



PeptiDream, a publicly traded company founded on UB technology, has a current market capitalization of around \$3 Billion USD. It is a pioneer and leader in the development of novel, highly functional peptide therapeutics to address unmet medical needs and improve the patients' quality of life. Peptidream was cofounded by Dr. Hiro Suga, a former UB Chemistry Professor. He acquired the exclusive license to the worldwide patent rights of the technology that he helped develop, which yielded an equity payout to UB of approximately \$2M in 2014.

UB Incubator Highlights

Nupur Technologies

Since joining the UB Technology Incubator in May 2014, Nupur has succeeded in further testing and developing the Earigator. The development of the Earigator led Nupur



to expand their development team beyond the three company founders. Additionally, Nupur Technologies expanded their footprint in the UB Technology Incubator building by nearly 300% recently in preparation for inventory, assembly, and fulfillment functions. Nupur is currently producing and selling the Earigator.

You First Services

You First Services joined the UB Technology Incubator in November 2014. They are currently participating in the START-UP NY program. Since joining the incubator, You First Services has licensed two technologies from the University at Buffalo—an



oral rinse and hyaluronic acid injection for joint cartilage. You First Services recently created a sister company which specializes in creating an energy mouth rinse—Swish4Energy, which is available for purchase across New York State.

Keep Truckin



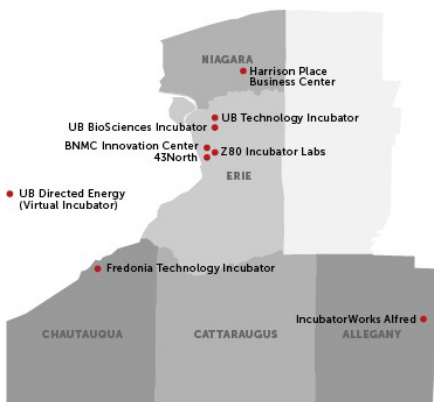
Keep Truckin is building a mobile and web based electronic log and fleet management platform for the trucking industry. Keep Truckin joined the UB Technology Incubator in June 2015. Keep Truckin raised \$8.0M in equity funding from investors in Silicon Valley and has since expanded their company to Buffalo to take advantage of the START-UP NY program. Keep Truckin has begun shipping their product.

Western New York Incubator Network

The UB Technology Incubator has been awarded the NYS Innovation Hot Spot and Business Incubator designation. This designation, which includes collaboration with regional partners, will provide funding to advance entrepreneurial assistance initiatives across Western New York.



The effort seeks to ignite an entrepreneurial ecosystem and assist WNY in becoming a hub for innovation and economic development.



Partners include SUNY Fredonia Technology Incubator, BNMC Innovation Center, Z80 Incubator Labs, Ceramics Corridor Incubator (Alfred), Harrison Place (Lockport), UB Center for Entrepreneurial Learning, LaunchNY, and UB Center of Excellence in Bioinformatics and Life Sciences.

Directed Energy

Renewable energy startups and entrepreneurs advancing technology and introducing new products receive directed assistance from UB STOR's Directed Energy program. The NYSERDA-funded, virtual incubator program engages clients with a wide range of services procured with small grants and, in some cases, strategic investments. Clients are expected to seek investments, launch new products, and grow their businesses. Contact Martin Casstevens for more information.



tenX

In 2014 tenX, UB's co-working space, was launched at the UB Technology Incubator. This space affords various levels of membership for early-stage companies and entrepreneurs. It provides a professional space for working or holding meetings with a mix of open space and private meeting rooms.



For more information, or to schedule your tour of tenX, please email tenX@buffalo.edu, or call Sara at (716) 645-3515.

eLab

The Entrepreneurial Lab (eLab) is a 3-credit winter session course designed for students with entrepreneurial ideas and the intention to create viable business ventures from these ideas. The eLab also prepares students for competing in the eLab Fellowship program, the Panasci Technology Entrepreneurship Competition, and the State Business Plan competition. STOR co-sponsors and instructs this course with the UB School of Management.

SUNY-INC Insurance Program

SUNY-INC Insure provides discounted access to certain forms of business insurance, including general liability, product liability, directors' and officers' liability and statutory workers compensation. Startup companies formed to commercialize UB technology, UB incubator clients, entities affiliated with UB commercialization programs or certified Western New York Incubator Network companies – in their first three years of formation – may qualify for this valuable program. STOR is the UB representative for this program; contact Kimberly Kohl for more information.

Bruce Holm Memorial Catalyst Fund

The Bruce Holm Memorial Catalyst Fund, created through an endowment from an anonymous donor, is intended to support research and development and to prepare UB technology for commercialization. Proof-of-concept, prototype development, marketing and other studies to advance the technology are all supported.

To donate to the Bruce A. Holm Memorial Catalyst Fund:

<http://giving.buffalo.edu/giving-options/honorary-and-memorial-gifts/stor-bruce-holm.html>

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