

# **Office of Technology Management (OTM)**

**Igniting Innovation and  
Commercialization**

# **UIC**

**Impact Report FY22**

**July 2021 - June 2022**

# Office of Technology Management (OTM)

## FY22 Impact



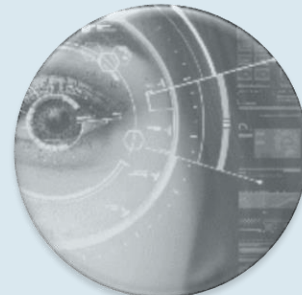
**\$430M**

**External  
Research  
Funding**



**\$825k**

**Internal Gap  
Funding  
(CTRI & POC)**



**119**

**Disclosures**



**108**

**Patents  
Filed**



**22**

**Patents  
Issued**



**39**

**Licenses &  
Options**

**687 Total Active Issued Patents**

- **291 US**
- **389 Worldwide**

**308 Total Active L&O**

# FY 22 License Income: \$29,987,697

## Top 3 Innovations by License Income

### Shingrix

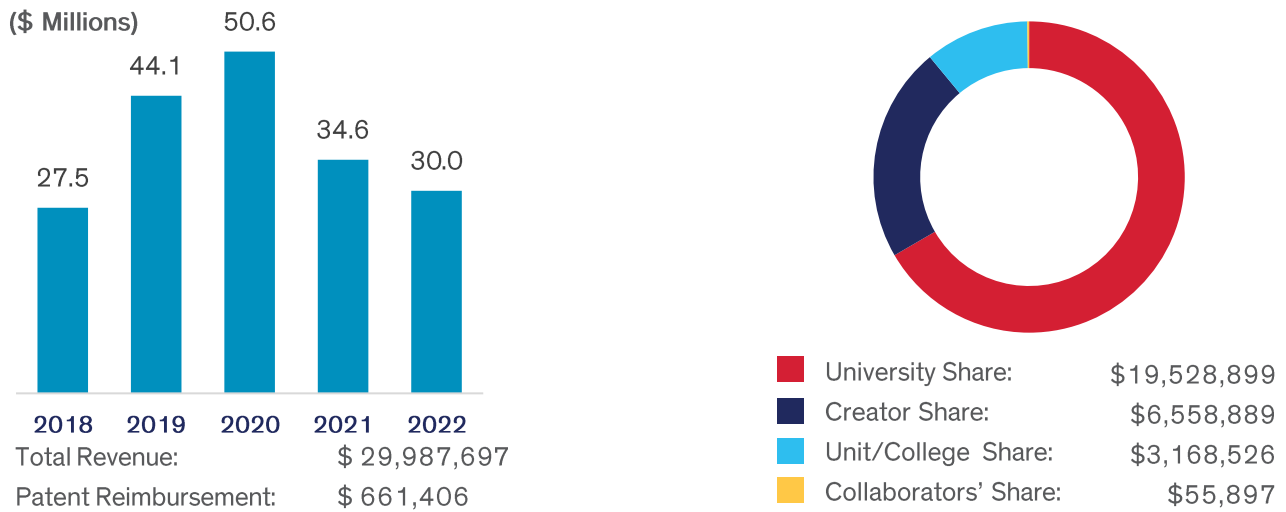
A new, shingles vaccine with 90% effectiveness

### Tice BCG ®

The top non-invasive bladder cancer treatment and prophylaxis

### Phexxi ®

Newly formulated, non-hormonal female contraceptive.



## Innovation Snapshot by College

College/ Unit	Technologies Disclosed	U.S. Patents Filed	U.S. Patents Issued	Licenses & Options
Applied Health Sciences	3			
Architecture and the Arts	2	2		1
Business		1		
Dentistry	4			
Education	1			
Engineering	40	38	7	1
Innovation Center	2	2		
Liberal Arts & Science	5	4	1	
Medicine (UIC, Rockford, Peoria, UIHealth)	63	60	11	9
Nursing	1	1		
Pharmacy	10	18	3	9
Public Health	1			
Social Work				20



## Inventor of the Year

**Donald Waller, PhD**

Professor Emeritus, Department of  
Pharmaceutical Sciences, College of Pharmacy

## Startup Highlights

### SBIR/STTR Awardees:

Aqualung Therapeutics Corp  
Chicago BioSolutions, Inc  
Dupage Medical Technology, Inc  
Enzyme By Design  
MassMatrix, Inc  
Senex Biotechnology, Inc  
Syntax (fka Cellgorithmics Inc)  
Tango Biosciences  
Yaso Therapeutics

### Startup Funding:

**18** SBIR/STTR  
Awards

**\$10.2 M** SBIR/STTR  
Funding

## Programs and Initiatives:

### OTM Office Hours

This summer OTM began monthly virtual office hours every 4<sup>th</sup> Monday and Wednesday of each month from 12:30p-1:30p. OTM will be continuing its office hours this fall. See our website for details.

### CO.STARTERS

CO.STARTERS Core is a three-month, cohort-based program that equips aspiring entrepreneurs with the insights, relationships, and tools needed to turn ideas into action and turn a passion into a sustainable and thriving endeavor.

Last year marked the first cohort of the CO.STARTERS Core Program and finished with 4 company presentations. UIC OTM will continue to provide the CO.STARTERS Core Program in FY23.

### Social Impact

UIC OTM is focused on supporting social impact research conversion to community impact. To facilitate this OTM has focused on non-exclusively licensing our social impact programs to community organizations, non-profits, strategic partners and startups for minimum financial return.

The Diabetes Empowerment Education Program™ (DEEP™). DEEP™ has been licensed to over 200 organizations across all 50 states and several countries and US territories. In an effort to increase awareness of DEEP™, OTM will be presenting at the American Public Health Association's (APHA) Annual Meeting in November 2022.

OTM has recently expanded its initiatives to develop a social entrepreneurial ecosystem within UIC to support high social impact endeavors across the campus. These initiatives will focus on connecting UIC social entrepreneurs and researchers with outside funding, identifying and setting up partnerships with external entities to scale up and operationalize our existing social impact programs, and identifying new programs to enhance the social impact.

## Chancellor's Translational Research Initiative (CTRI)

### Steven Ackerman

Development of novel biased antagonists of CCR3 to treat Alzheimer's disease

### Leslie Aldrich

Development of ATG5-ATG16L1 protein-protein interaction inhibitors to selectively inhibit autophagy

### Michael Caffrey

Development of a Mutant Circuit for Real-time Detection of SARS-CoV-2 Variants

### Ali Djalilian

MSC Based Corneal Regenerative Therapy

### Michael Johnson

Selective CSF1R inhibitors as novel asthma therapeutics

### Andre Kajdacsy-Balla

Non-invasive test to detect Helicobacter pylori gastric infection

### Jan Kitajewski

Notch Decoys as Anti-Angiogenic Biotherapeutics

### Mathew Mathew

Urine based Biosensor (iBiosenC) for the Early Detection and Monitoring of Breast Cancer

### John Monaghan

Aircraft Crash Survivor Behavioral Modelling

### Sojin Shikano

Development of biased small molecule antagonists of a colon homing receptor GPR15

### Mladen Vidovich

Spiral Intravascular Wire

## UIC Chancellor's Innovation Fund

### Proof of Concept (POC)

#### Phase I

### Leslie Aldrich

Optimization and evaluation of an autophagy-selective inhibitor for cancer therapy

### Deepak Shukla

DECON: A novel platform for enhanced antiviral drug delivery

### Meenesh Singh

Fully automated robotic system for effective polymorph screening of drug substance

### Arunkumar Subramanian

IC-compatible, direct deposition of patterned nanostructures using physical vapor deposition techniques

### Joe Zhou

Three-dimensional functional MRI (fMRI) in focused brain regions

#### Phase II

### Paul Goldspink

Targeting 14-3-3/Troponin I in Cardiomyopathy

### Reza Shahbazian-Yassar

Commercially viable coating based on graphene oxide nanosheets for dendrite-free lithium metal batteries

## Chicago Biomedical Consortium (CBC)

### Accelerator Awards

### Richard Minshall

Development of Small Molecule Inhibitors of Gα12/ Alpha-SNAP-dependent vWF Secretion

### Catalyst Awards

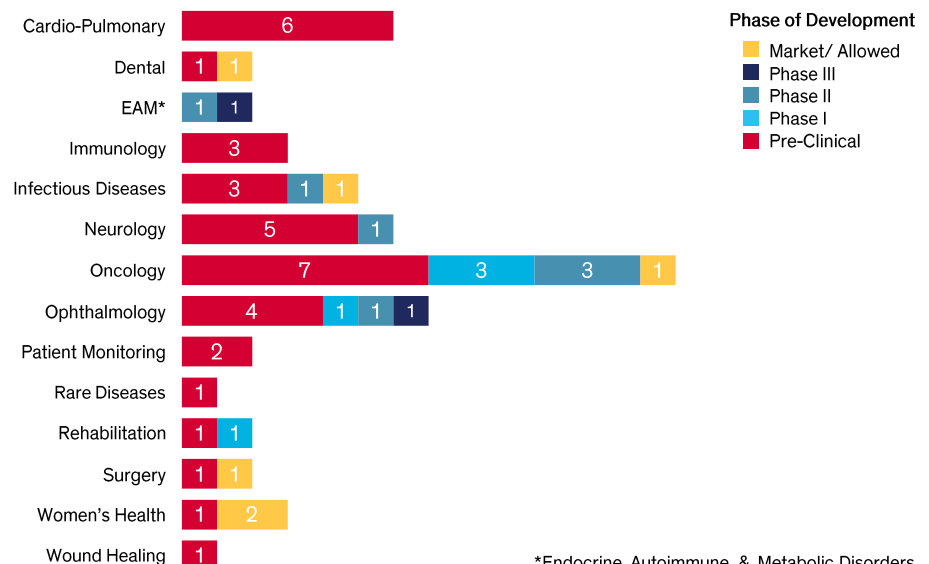
### Yu (Tom) Gao (UIC) and Carole Ober (UChicago)

Elucidating the Function of the Non-classical HLA-DQα2/HLA-DQβ2 in Asthma

### Brian Murphy (UIC) and Neil Kelleher (NU)

Establishing Two New Bacterial Phyla to Produce the Next Generation of Biomedical Drug Leads

## UIC Pipeline (Therapeutics, Vaccines, and Medical Devices)



\*Endocrine, Autoimmune, & Metabolic Disorders