

INVO

**INVENTIVE
ACTIVITY
FY 2022**

Northwestern | INVO
Innovation and New Ventures

Dear members of the Northwestern community,

When I became INVO's inaugural executive director in 2010, I held one personal, admittedly strange goal: to put myself out of a job. That successful result, after all, would mean Northwestern University had established itself as a leader in innovation and entrepreneurship among U.S. universities.

Here, a dozen years and one global pandemic later, I proudly say promised fulfilled.

INVO was founded in 2010 to supercharge innovation and entrepreneurship at Northwestern. At the time, our entrepreneurial ecosystem was underperforming. Our faculty, students, and community – increasingly interested in pursuing entrepreneurial activities – were dissatisfied.

Still, we knew Northwestern possessed the necessary ingredients to increase its entrepreneurial horsepower. Lyrica, the now-ubiquitous therapeutic for nerve and muscle pain with inventive roots at Northwestern, served as a prominent symbol of the innovative spirit rumbling under the surface and the power of our people – our greatest asset. Northwestern hosted intelligent, resilient students and ambitious faculty eager to solve global problems through innovation.

And so, we – this growing INVO team of enterprising, collaborative individuals who prioritize action – went to work.

Soon, we became a central part of the overall entrepreneurial culture at Northwestern. We supported interdisciplinary courses like NUvention, challenging students to pursue entrepreneurial projects in fields like artificial intelligence, energy, and transportation, and we launched mentorship programs like INVOForward.

We built The Garage to energize student entrepreneurship and unveiled the InQbation Lab to advance faculty innovations. We introduced funding programs like NUseeds and N.XT to invest in impactful technologies and entrepreneurs.

We crafted strategic relationships with external partners providing expertise, resources, and funding. We revised core facilities and rent structures.



Alicia Löffler, PhD

We solicited feedback from students, faculty, and industry to ensure calculated movement. We cultivated trust from our community by making it easier for Northwestern faculty and students holding inventive ideas to pursue translation.

All along this still-ongoing adventure, our people-centric mission never wavered. We invested in billion-dollar people, confident the billion-dollar companies would follow.

Today, Northwestern's ecosystem for innovation and entrepreneurship is robust and a clear point of differentiation from other universities. Our portfolio now includes nearly 100 startups and non-Lyrica revenue is 10 times its 2010 tally. Northwestern-founded technologies, meanwhile, have generated more than \$2 billion in acquisitions while three Northwestern startups have gone public.

Our culture is lively, dynamic, self-sustainable, and also ready to take its next daring steps behind fresh ideas from new leadership. Change is central to progress, and the courage to constantly evolve and transform is a necessary component of a growing individual and organization.

It was an honor and privilege to serve as INVO's founding director, to work with an exceptional team of doers, and to help shape Northwestern's entrepreneurial culture. I know even brighter days reside ahead.

Alicia Löffler, PhD
Executive Director, INVO
Associate Provost, Innovation and New Ventures
Associate Vice President for Research

219
INVENTIONS DISCLOSED

584
PATENT APPLICATIONS

260
AGREEMENTS EXECUTED

14.1
MILLION IN LICENSING REVENUES, DOLLARS

122
PATENTS ISSUED

12
STARTUPS WITH NORTHWESTERN IP

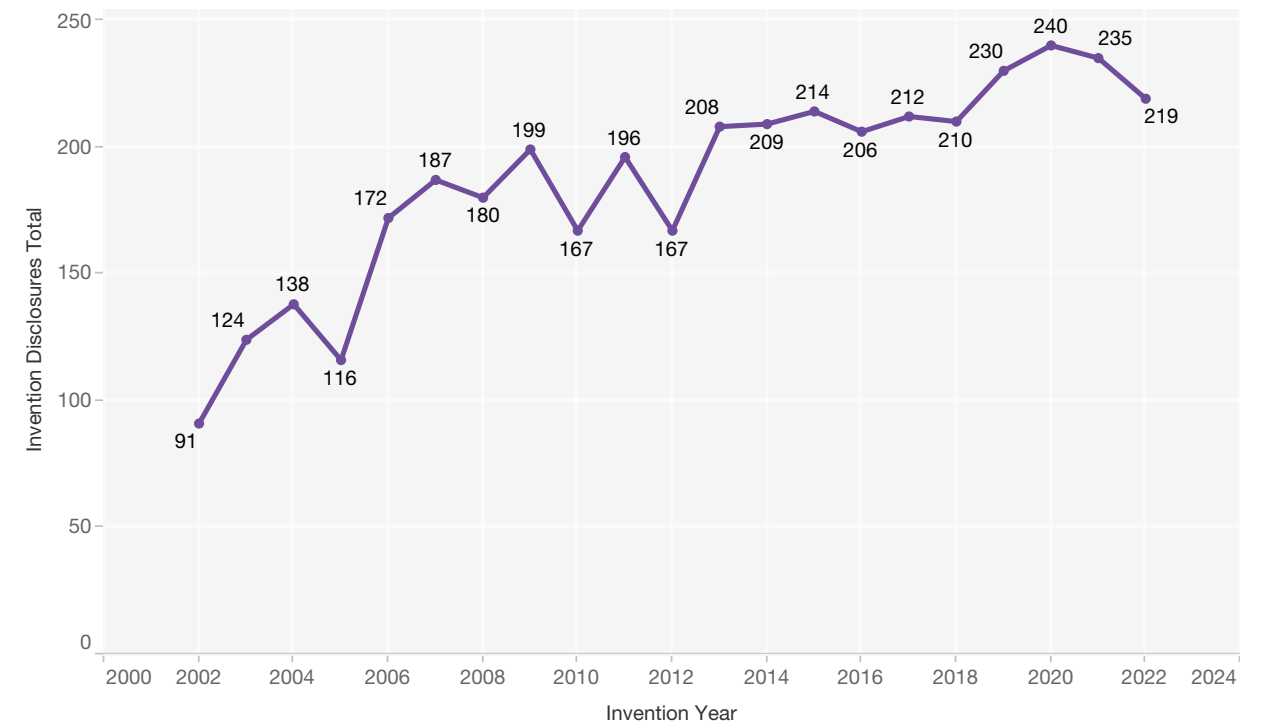
NORTHWESTERN INVENTIVE ACTIVITY

Figure 1 illustrates invention disclosure activity since 2002. In FY 2022, INVO processed 219 invention disclosures. Most universities reported a 10% to 20% lower disclosure rate in 2022. This trend is attributed to higher-than-normal pandemic disclosures rates (when faculty were working from home) and to post-pandemic delays in opening and hiring for labs.

Inventorship spans both campuses. Figure 2 represents the distribution of inventive activity by school. The McCormick School of Engineering and the Feinberg School of Medicine have the largest shares, followed by the Weinberg College of Arts and Sciences.

Figure 3 shows the distribution of inventions by category. Therapeutics had the largest share of the inventive output followed by Healthcare Devices, Tools & IT. It is important to note that many inventions in the areas of chemistry, computer science, and materials are considered platform technologies with undefined markets. For example, a new software invention might find applications in the future in a variety of markets such as energy, consumer, and biomedical.

FIG. 1
INVENTION DISCLOSURES, 2002-Present



An Innovation Index Building a Framework to Evaluate Innovation at Northwestern

How might a university measure its innovative culture? It is an important question given higher education's reliance on metrics to chart progress, establish benchmarks, and inform decision making, including ever-important discussions around resource allocation.

Traditionally, academic institutions have leaned into figures such as patents, revenues, or research funding to evaluate innovation. In fiscal year 2021, for instance, Northwestern University captured a record-setting \$893.4 million in sponsored research funding. While such a data point is telling – and undoubtedly inspiring, relying on that metric



Prof. Dashun Wang

“It is so rewarding to be able to apply our research expertise in the science of science to help improve innovation at our own University”

ultimately neglects other dimensions of university innovation. As a result, a university risks overlooking opportunities to ignite innovation, secure its long-term competitiveness, and contribute transformational discoveries that generate jobs, national prosperity, and global relevance.

The Center for Science of Science & Innovation (CSSI) at Northwestern's Kellogg School of Management is working to create a better strategy to measure innovation and ensure Northwestern pursues its full innovative potential.

CSSI researchers are developing a comprehensive, systematic, and quantitative framework to understand innovation at Northwestern. The multi-year, multi-stage effort includes gathering data from offices, departments, and centers across Northwestern to understand the overall lifecycle of innovation at the University – from proposing ideas to securing funding, from patents to licensing revenues.

The resulting CSSI-produced framework will help INVO measure the impact of its programs on innovation and research progress. It will also support INVO's efforts to identify unrealized potential at Northwestern, such as promising cross-school collaborations or connecting junior researchers with INVO's vast resources. The thoughtful initiative will better position Northwestern to capitalize on compelling opportunities capable of translation and benefitting society.

“It is so rewarding to be able to apply our research expertise in the science of science to help improve innovation at our own University.”

--Dashun Wang, Professor of Management and Organizations, Kellogg School of Management and Director, Center for Science of Science & Innovation

FIG. 2
INVENTIONS BY SCHOOL

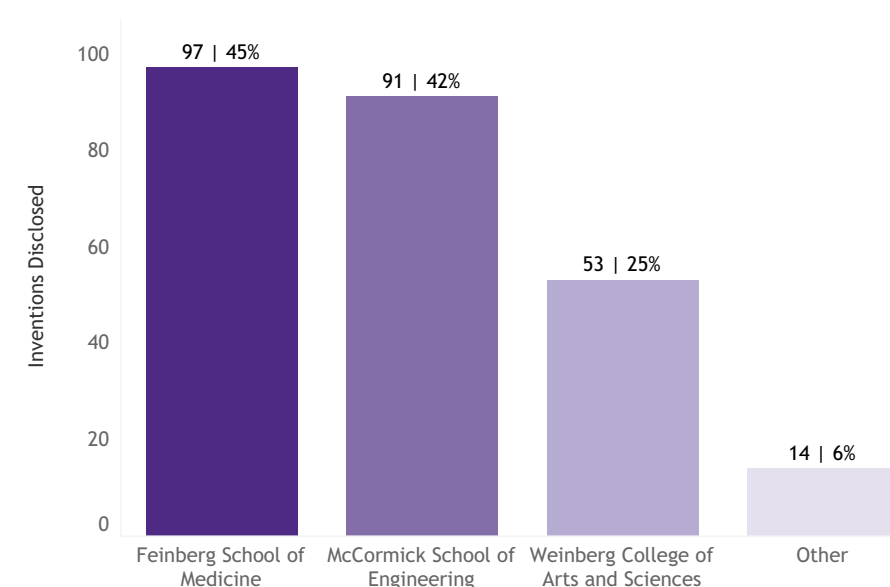
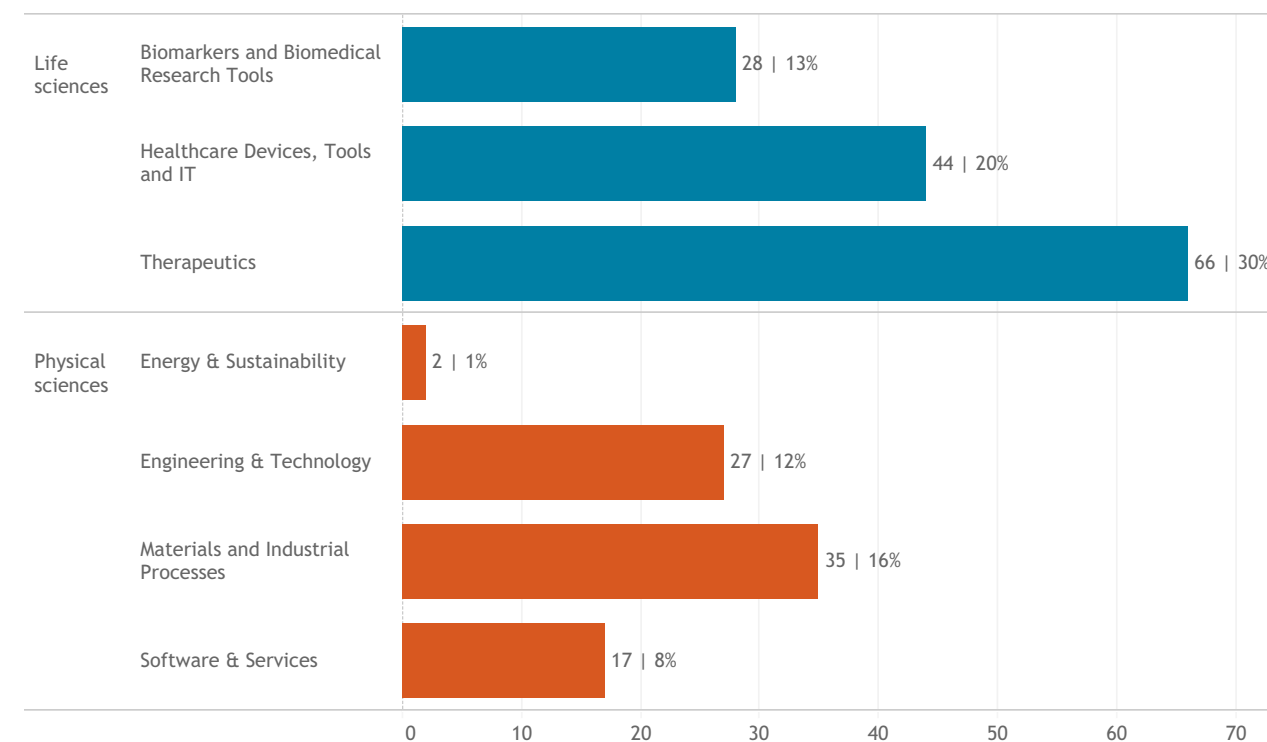


FIG. 3
INVENTIONS BY CATEGORY / INDUSTRY PIPELINE



**Joining Forces to Curb Climate Change
Multiple Collaborators Combine Their Specialties to Advance the Commercialization
of an Innovative Biofuel**

Trading greenhouse gas-causing fossil fuels for renewable alternatives such as biofuels remains one of the most compelling ways to combat climate change and contribute to a healthier planet. While ethanol, a biofuel concocted from corn and other plant materials, has captured some marketplace reach, the need for more accessible, economical, and sustainable biofuels remains high.

Powered by a U.S. Department of Energy investment in sustainable chemicals using bacteria, an enterprising collaboration between three different Northwestern University research



Prof. Keith Tyo

“By bringing our unique skill sets together on this effort, the potential is there to go into commercial production and have a positive impact on carbon emissions and sustainability”

labs, a national laboratory, and a clean energy startup is drawing closer to a novel biofuel solution using clostridia, an ancient organism that grows on carbon monoxide, carbon dioxide, and hydrogen gas.

The process starts in the labs of Keith Tyo, associate professor of chemical and biological engineering, and Linda Broadbelt, Sarah Rebecca Roland Professor of Chemical and Biological Engineering. The Tyo and Broadbelt groups develop computational models to quickly prototype thousands of potential biosynthetic



Prof. Linda Broadbelt

pathway designs. Using a range of algorithms, they narrow the abundant options down to only the most intriguing pathways capable of optimizing clostridia’s production of biofuels.

These pathway designs are then passed to Mike Jewett, Walter P. Murphy Professor of Chemical and Biological Engineering, and his lab team, who can rapidly evaluate enzymes and pathways in their cell-free experiments.

Thereafter, the Northwestern team shares their findings with LanzaTech for experimental testing in clostridia. Oak Ridge National Laboratory, meanwhile, provides critical bacterial analysis to ensure the project’s validity.

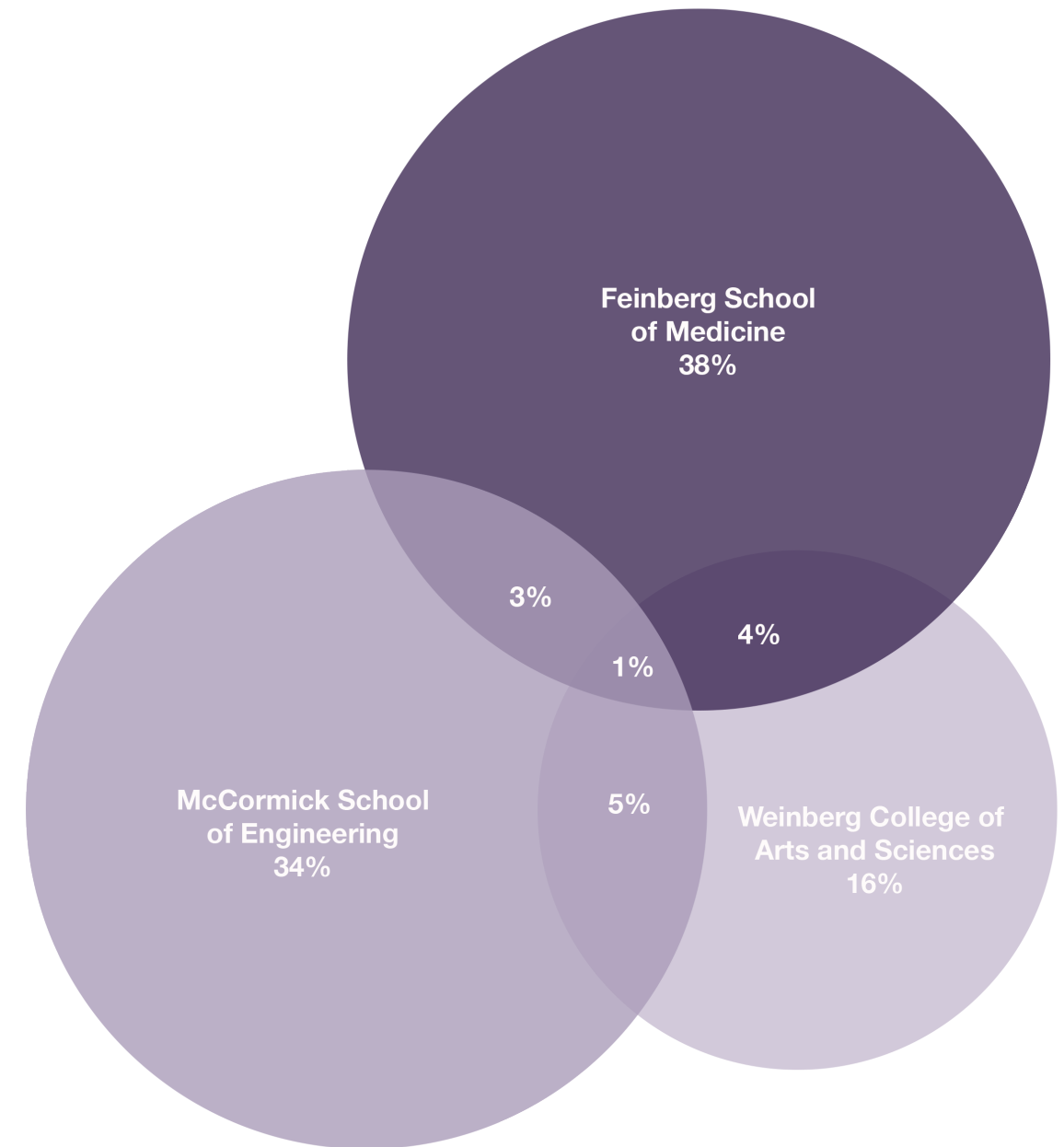
The daring project underscores the power of collaboration and leveraging dynamic new approaches to confront a pressing global problem.

“By bringing our unique skill sets together on this effort the potential is there to go into commercial production and have a positive impact on carbon emissions and sustainability.”

--Keith Tyo, Associate Professor of Chemical and Biological Engineering, McCormick School of Engineering

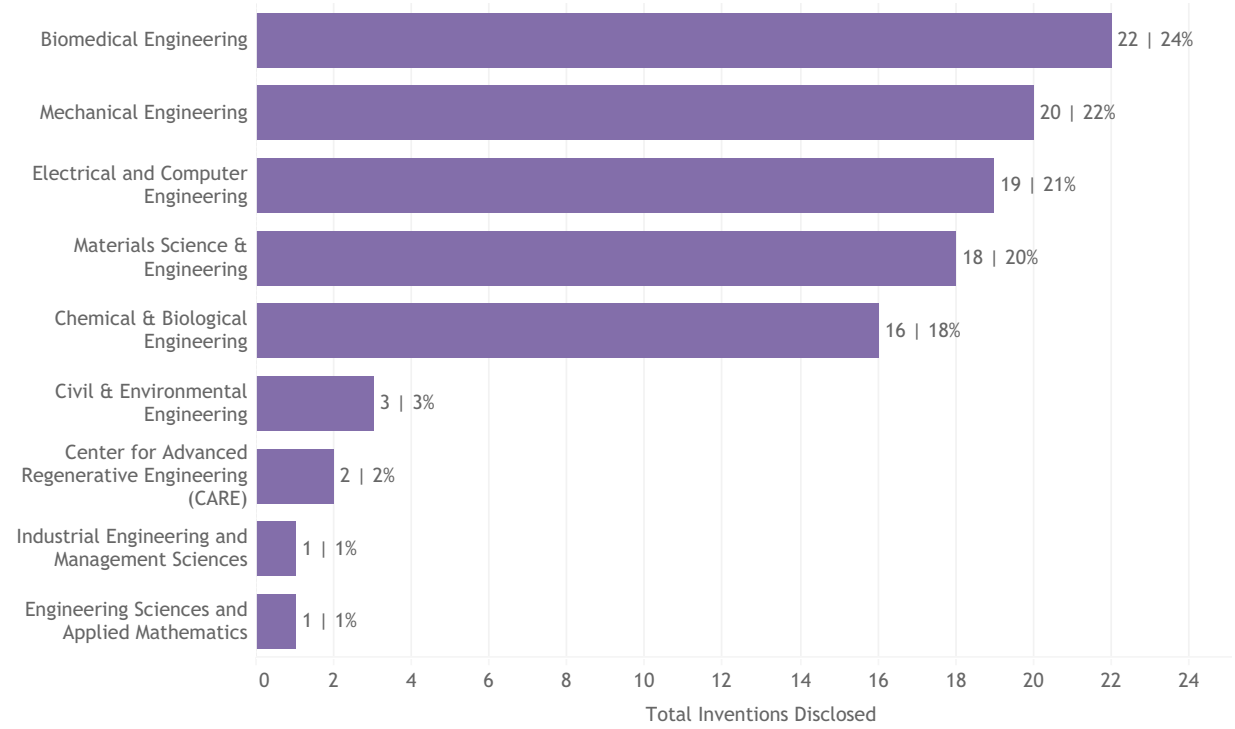
FIG. 4
COLLABORATION BETWEEN SCHOOLS

Northwestern’s interdisciplinary approach is displayed by the co-inventorship activity among different schools and departments.

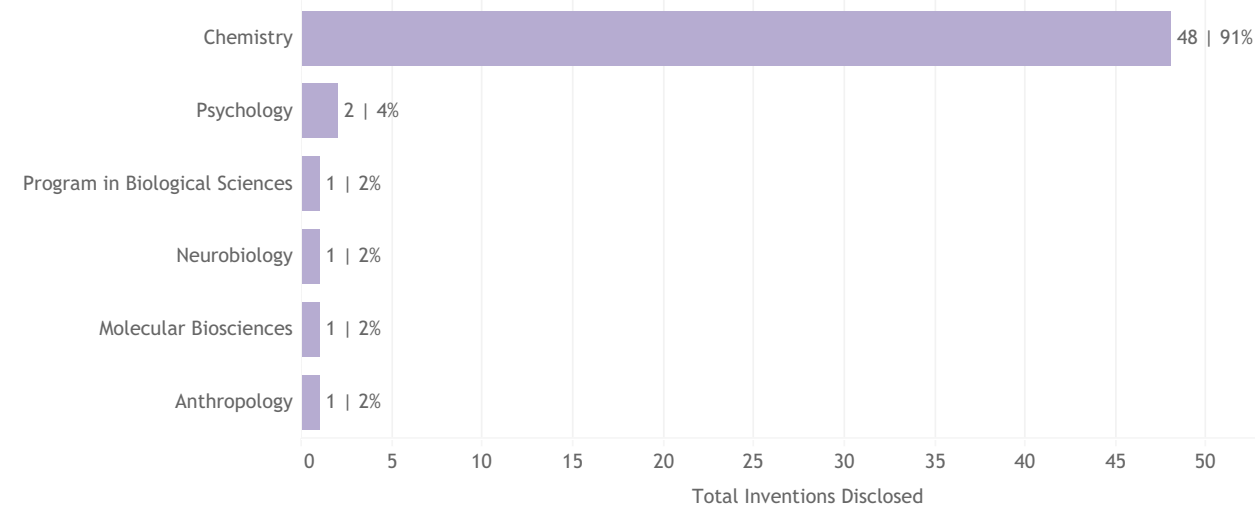


Figures 5, 6, and 7 illustrate inventive activity within each school.

**FIG. 5
McCORMICK SCHOOL OF ENGINEERING INVENTIONS BY DEPARTMENT**



**FIG. 6
WEINBERG COLLEGE OF ARTS AND SCIENCES INVENTIONS BY DEPARTMENT**



**FIG. 7
FEINBERG SCHOOL OF MEDICINE INVENTIONS BY DEPARTMENT**

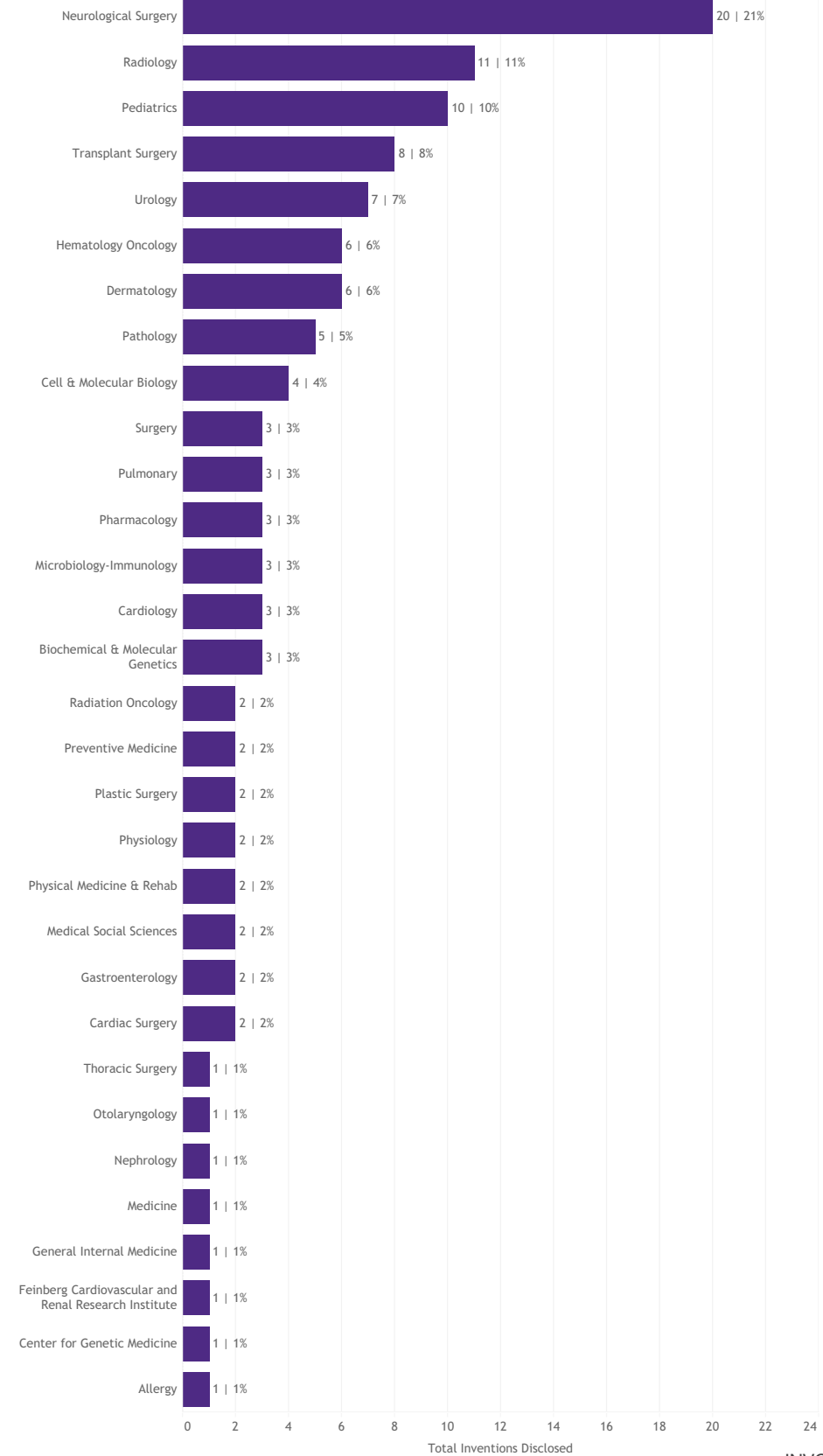


FIG. 8
INVENTORS AMONG TENURED AND TENURE-ELIGIBLE FACULTY

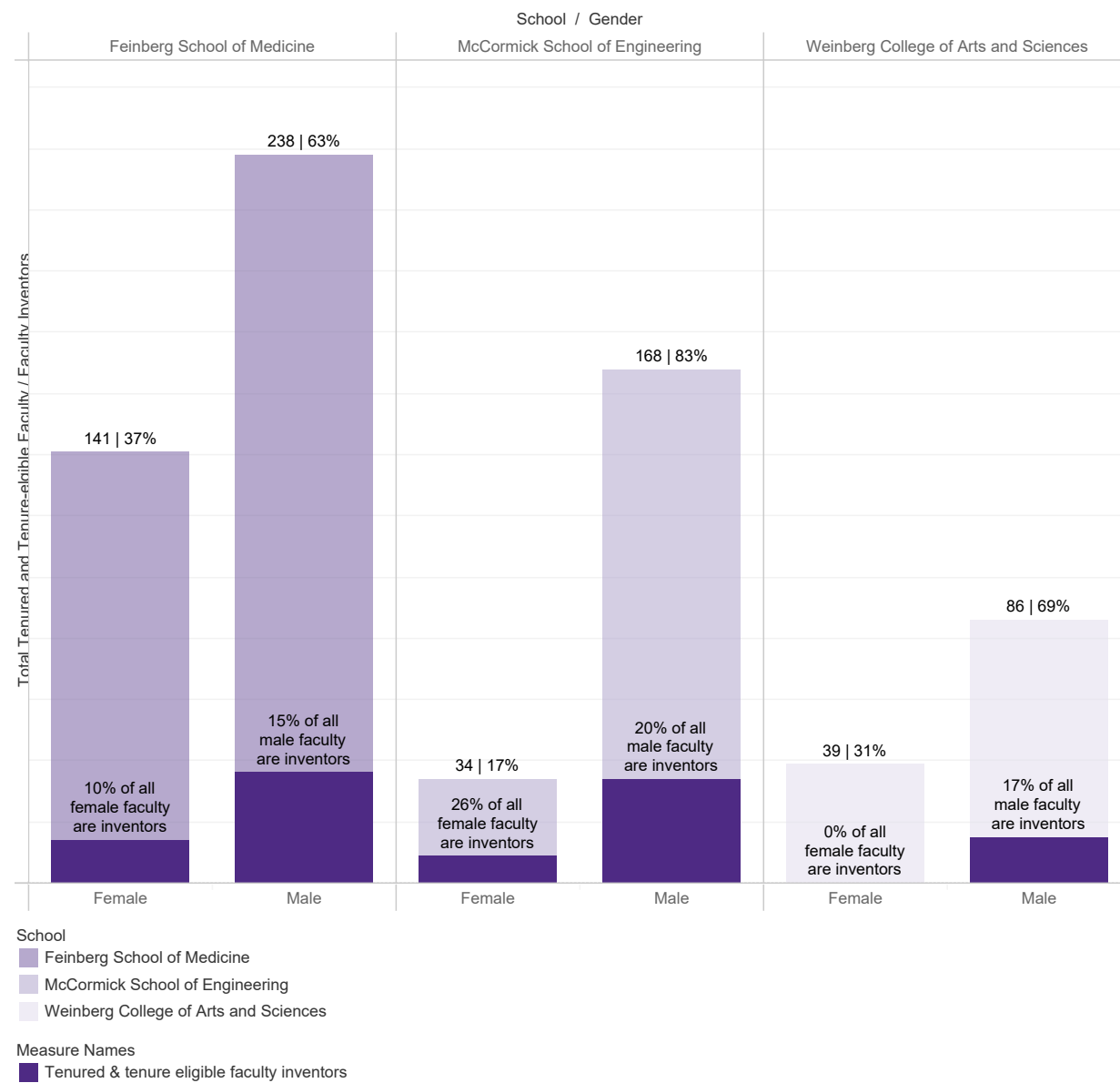


Figure 8 represents the gender distribution of tenured and tenure-eligible faculty and the percentage who disclosed inventions during FY 2022.

Weinberg College of Arts and Sciences percentages represent faculty from the departments of Anthropology, Chemistry, Molecular Biosciences, Neurobiology, Program in Biological Sciences and Psychology. As an example, the first bar in Figure 8 shows that 10% of the total female tenured and tenure-eligible faculty at FSM have disclosed inventions during FY 2022.

**BY PROMOTING DIVERSITY IN OUR ECOSYSTEM,
 THE QUALITY OF OUR INVENTIONS INCREASES**

**SteadyScrib
 An Unlikely Collaboration and Purposeful Effort Spur a First-of-Its-Kind Solution**

For years, Northwestern undergraduate Izzy Mokotoff (Medill '24) enjoyed a treasured tradition with her grandfather – affectionately known as “Pops.” Each week, the two sent handwritten letters to one another. The simple act connected generations and fostered everlasting bonds. But as Pops’ Parkinson’s symptoms intensified, challenging his manual dexterity and ability to pen a note, the letter writing ceased.

Motivated to find a solution, Mokotoff solicited help from a campus neighbor, Alexis Chan (McCormick '24), on the development of a manual writing tool to counteract the most writing-inhibitive Parkinson’s symptoms, including tremors, rigidity, and slow movement.



SteadyScrib at The Garage

“We are personally motivated to enable people with Parkinson’s to communicate with dignity and efficiency.”

Over the 10-week Jumpstart pre-accelerator program at The Garage, Mokotoff, the journalism student, and Chan, the biomedical engineering major, collaborated to bring SteadyScrib to life. They interviewed physical and occupational therapists about dexterity issues and potential interventions. They used CAD modeling software and 3D printers at The Garage’s Makerspace to develop 11 different iterations, refining key features such as a weighted, curvier grip to accelerate movement. They tested prototypes at Parkinson’s support groups. Every piece of feedback informed the next iteration. Every iteration energized the project’s progress.

Mokotoff and Chan have since secured two provisional patents with support from the Donald Pritzker Entrepreneurship Law Center at Northwestern, earned a spot on Chicago Inno’s annual Inno Under 25 list highlighting young Chicago area innovators, and landed in VentureWell’s E-Team Grant Program, a national initiative designed to push high-impact student innovations into the marketplace.

“At SteadyScrib, we are personally motivated to enable people with Parkinson’s to communicate with dignity and efficiency.”
 --Izzy Mokotoff, Medill’24, co-founder, SteadyScrib

At the Jumpstart program’s session-closing Demo Day in August 2022, SteadyScrib won the \$4,000 first prize as well as the audience favorite award.

**Glioblastoma and Calidi Biotherapeutics
A Pioneering Partnership Heightens the Commercialization Potential of a
Therapeutic to Treat an Aggressive Brain Tumor**

The most common malignant brain tumor, glioblastoma often brings intensifying headaches, nausea, vomiting, and seizures. It also carries a dismal prognosis – one unchanged for decades despite accelerating levels of research into the aggressive cancer. Glioblastoma survival is measured in months, not years. The bleak outlook drains spirits and invites mortality closer than anyone would like.

Northwestern University neurosurgeon Dr. Maciej Lesniak has devoted much of his career to improving the outlook for glioblastoma patients, including steering the development of a novel biologic.



Prof. Maciej Lesniak

“We are encouraged by the method and biology of this novel biologic and inspired by the hope it might bring glioblastoma patients.”

Over the past five years, Northwestern sponsored a Phase 1 clinical trial led by Dr. Lesniak to test an oncolytic viral therapy for glioblastoma developed in collaboration with cancer-fighting researcher Dr. Karen Aboody. Northwestern directed the Investigational New Drug Application to the U.S. Food and Drug Administration to initiate the regulatory approval of this novel therapeutic.

Sparked by the publication of the initial trial’s encouraging results in 2021, INVO struck a first-of-its-kind partnership with California-based Calidi Biotherapeutics to commercially license the Phase I clinical data. This groundbreaking agreement, an evolution of INVO’s licensing practices and the first time Northwestern ever licensed clinical data, enables Calidi to pursue further translational development of the therapy in a Phase II clinical trial.

Over the last century, the FDA has approved only three treatments for glioblastoma. Lesniak and Calidi maintain hope their therapeutic will be the fourth, transforming glioblastoma treatment and elevating patient survival rates in the process.

“While one’s degree of enthusiasm has to be tempered by the realities of clinical trials, we are nevertheless encouraged by the method and biology of this novel biologic and inspired by the hope it might bring glioblastoma patients.”
-- Dr. Maciej Lesniak, the Michael J. Marchese Professor and Department of Neurological Surgery Chairman, Feinberg School of Medicine

PATENTS

Figure 9 shows patents filed in FY22 per school. Patent filing is consistent with the invention disclosure activity reported in Figure 2. Figure 10 illustrates the breakout of patents filed in FY22. Figure 11 illustrates that issued patents span multiple disciplines and markets.

Patent Types

Provisional patents: Approximately 60% to 70% of all invention disclosures are filed as provisional patents; approximately 50%–60% are converted into non-provisional patents within a year.

Filing a provisional patent application before filing a Utility application presents several advantages:

- Relatively inexpensive and allows the inventor to spend one year gathering more data, resulting in

a stronger patent application

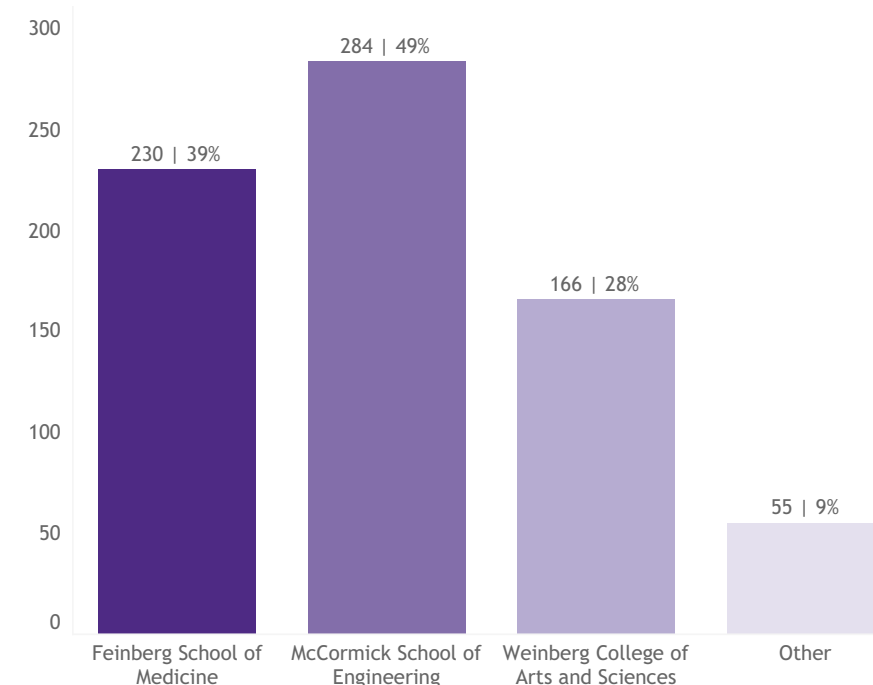
- Allows INVO to conduct a more in-depth commercial assessment of the invention and identification of potential licensees

Non-Provisional (Utility) patent applications:

The filing of a Utility patent starts the official examination process with the USPTO to determine if the invention is patentable. The USPTO review of a patent application can take several years.

PCT applications: A PCT is an international treaty with more than 145 Contracting States. The PCT makes it possible to seek patent protection for an invention simultaneously in a large number of countries by filing a single “international” patent. A PCT application must be followed up within 18 months by entering into national or regional

FIG. 9
FILED PATENT APPLICATIONS BY SCHOOL



phases to more patents. Foreign prosecutions are very expensive. INVO files in specific countries (National Phase) only when there is a licensee for the patent.

Continuing patent applications (CIP): These are patent applications that follow and claim priority to an earlier filed patent application.

EPO Validation: Granted European patents that are in the process of validation in individual states.

Divisional patent applications: Patent applications with claims that were divided out of the original filed application and which must be re-submitted as a separate application.

FIG. 10
FILED PATENT APPLICATIONS BY TYPE

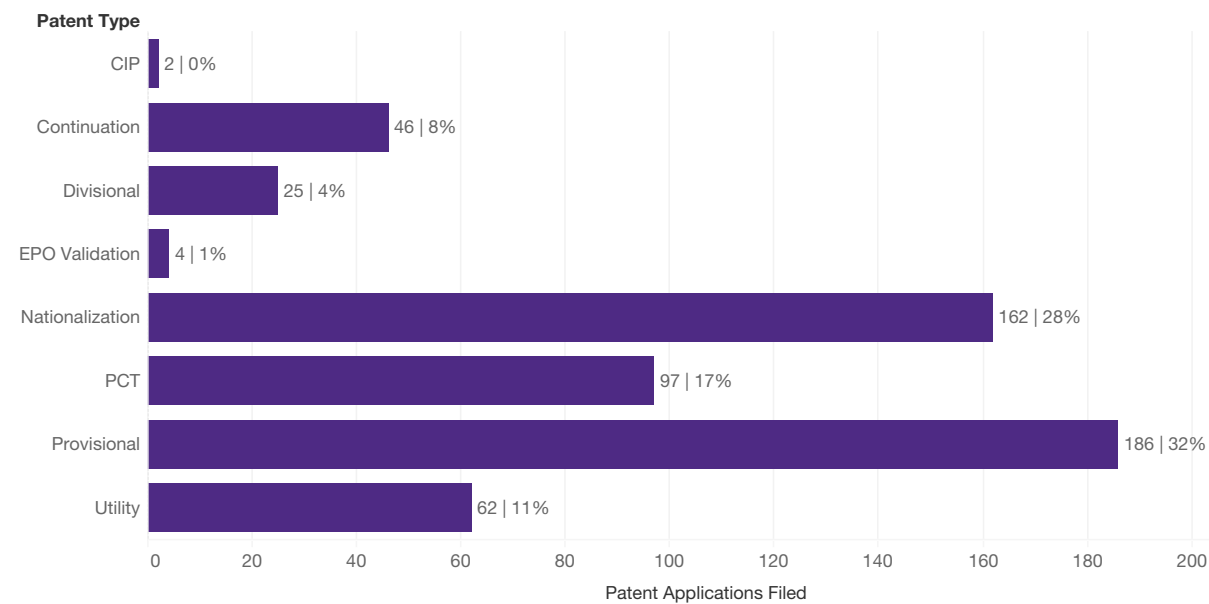
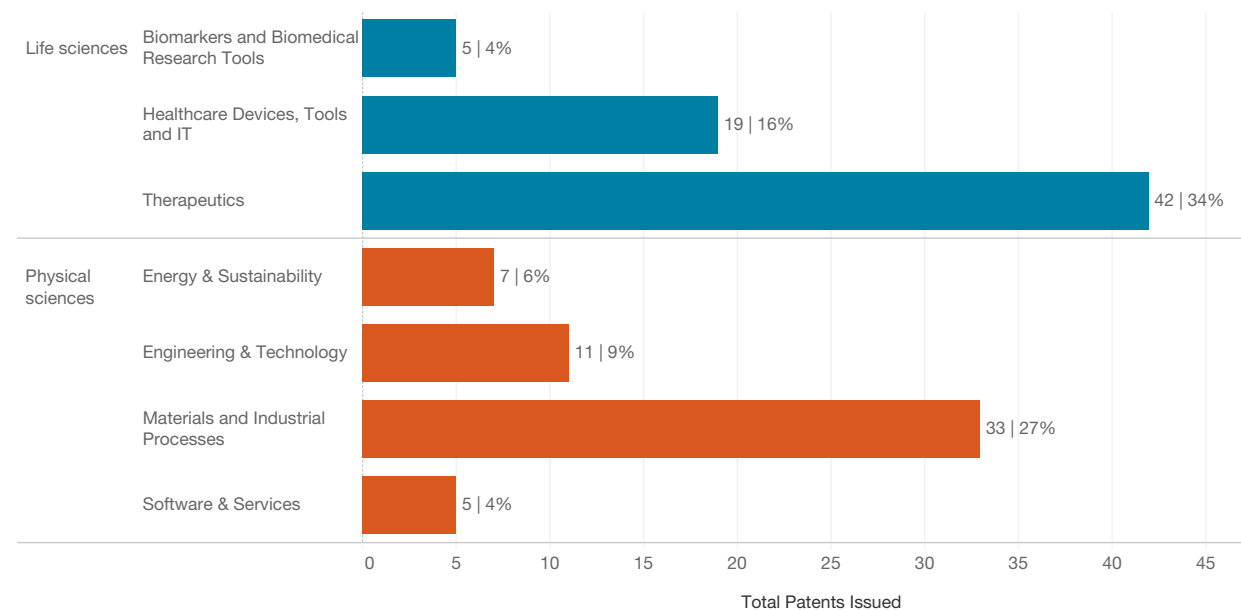


FIG. 11
ISSUED PATENT APPLICATIONS BY CATEGORY / INDUSTRY PIPELINE



Querrey InQbation Lab New Accelerator Opens to Fuel Faculty Members' Research-based Entrepreneurship

The evolution of Northwestern University's entrepreneurial ecosystem continued in Spring 2022 with the debut of the new Querrey InQbation Lab in downtown Evanston.

Aiming to become a magnet for research-based entrepreneurship, the InQbation Lab is designated for the translation of Northwestern-created technologies. It supplies early-stage companies affordable lab space alongside programming support and access to translational talent and resources. With its proximity to campus, collaborative environment, and targeted programming, the InQbation Lab will help fuel the growth of promising startups, energize faculty entrepreneurship, and further expand Northwestern's impact on society.



InQbation Lab event

“The Querrey InQbation Lab will give these entrepreneurial faculty the resources to realize their potential and maximize the benefits to society.”

The InQbation Lab's earliest residents are:

- building next generation lithium-ion batteries (Volexion)
- perfecting wearable technologies to monitor chronic medical conditions (Rhaeos)
- designing cell-free biosensors for rapid detection of water contaminants (Stemloop)
- developing materials for next-generation radiological imaging (Actinia)
- providing powerful platforms for cell and gene therapies (Syenex)
- creating novel implantable medical devices (HemoRhythmics)
- manufacturing high-purity proteins (Opera Bioscience)

“Northwestern innovators are pushing the bounds of science and engineering through discovery, collaboration, and promising ventures. The Querrey InQbation Lab will give these entrepreneurial faculty the resources to realize their potential and maximize the benefits to society.”

--Kimberly Querrey ('22, '23 P), Innovation and Entrepreneurship Committee Chair, Northwestern University Board of Trustees

The InQbation Lab offers its residents a growing network of enthusiastic mentors consisting of seasoned entrepreneurs, industry executives, and venture capitalists as well as seminars and workshops focused on key topical areas of commercialization and entrepreneurship. Additional programs include a Summer Scholars program pairing resident startups with Northwestern undergraduates as well as independent studies for Kellogg MBA students to work with resident startups.

To further increase the translational pipeline, the InQbation Lab will also offer entrepreneurial fellowships for recent STEM PhD graduates and MBA graduates seeking to commercialize Northwestern research as well as an annual fellowship designed to cultivate female faculty entrepreneurs. In addition, foundry space equipped with shared lab equipment will be available to early-stage startups looking to quickly validate their concepts, while INVOForward, a multi-week program for pre-company teams to explore pertinent milestone questions, will continue in therapeutics, digital healthcare, and other industries as well.

**From Northwestern Labs to the World
With the Help of INVO, Three Synthetic Biology Startups Push Toward Commer-**

When Northwestern University launched the Center for Synthetic Biology in 2016, it signaled the University's commitment to a fast-evolving field focused on building new biological systems using the tools of physics, engineering, and computer science. Six years later, Northwestern research has spawned various synthetic biology startups, including three Querrey InQbation Lab residents who also received N.XT funding to propel commercial development.

Founded in 2019 from the research of Julius Lucks, professor of chemical and biological engineering, and Michael Jewett, Walter P. Murphy Professor of Chemical and Biological Engineering, Stemloop repurposes cell-free biological mechanisms to create rapid, easy-to-use sensors to



Prof. Danielle Tullman-Ercek

“INVO has been instrumental to the formation and progress of Opera Bioscience, linking us to opportunities, resources, and programs that have led us to mentors and perspectives...”

detect pathogens, toxins, and chemical contaminants. CEO Khalid Alam, a former post-doctoral fellow of Lucks, secured SBIR funding as well as initial seed funding from Titledown Tech. The company recently introduced its first product, the μ Sense™ for testing lead in water.

Based on the research of Joshua Leonard, associate professor of chemical and biological Engineering, Syenex is developing a high-throughput discovery platform to harness the therapeutic potential of extracellular vesicles. Led by CEO Jay Rosanelli, Syenex recently landed its first \$5 million seed investment and captured 2022 AbbVie Innovation Midwest Award honors.

As a member of a Kellogg class on commercialization, Gerry Sapienza (Kellogg '21) helped identify a translational path for professor of chemical and biological engineering Danielle Tullman-Ercek's transformative technology for protein manufacturing. While Sapienza now spearheads the commercialization of that novel technology.

as the CEO of Opera Bioscience, Tullman-Ercek captured first prize in the MedTech category at Equalize 2022, a pitch competition highlighting female academic inventors.

To continue fostering Northwestern's strength in synthetic biology, the Querrey InQbation Lab hosted "SynBio 2.0 | What Comes Next" in October 2022. Panel discussions, lakeside chats, and a networking social stimulated rich conversations about synthetic biology's future among more than 120 university researchers and investors from around the country.

“INVO has been instrumental to the formation and progress of Opera Bioscience, linking us to opportunities, resources, and programs that have led us to mentors and perspectives, not to mention potential partners and customers.”
--Danielle Tullman-Ercek, Professor of Chemical and Biological Engineering, Northwestern University McCormick School of Engineering

FY 2022 FINANCIALS

Licensing Income. Non-Lyrica licensing income increased as Lyrica's patent expiration continues in multiple countries. Non-Lyrica revenue increased due in large part to increased and one-time licensing fees.

Legal Expenses. Expenses are expected to continue to grow as Northwestern's patent portfolio continues to increase in size and complexity.

Patent protection is expensive. Initial US applications cost from \$6,000 to \$15,000 and, throughout their lifetime, they cost anywhere from \$25,000 to \$30,000. Foreign prosecution is even more costly, and can range anywhere from \$100,000 to \$200,000.

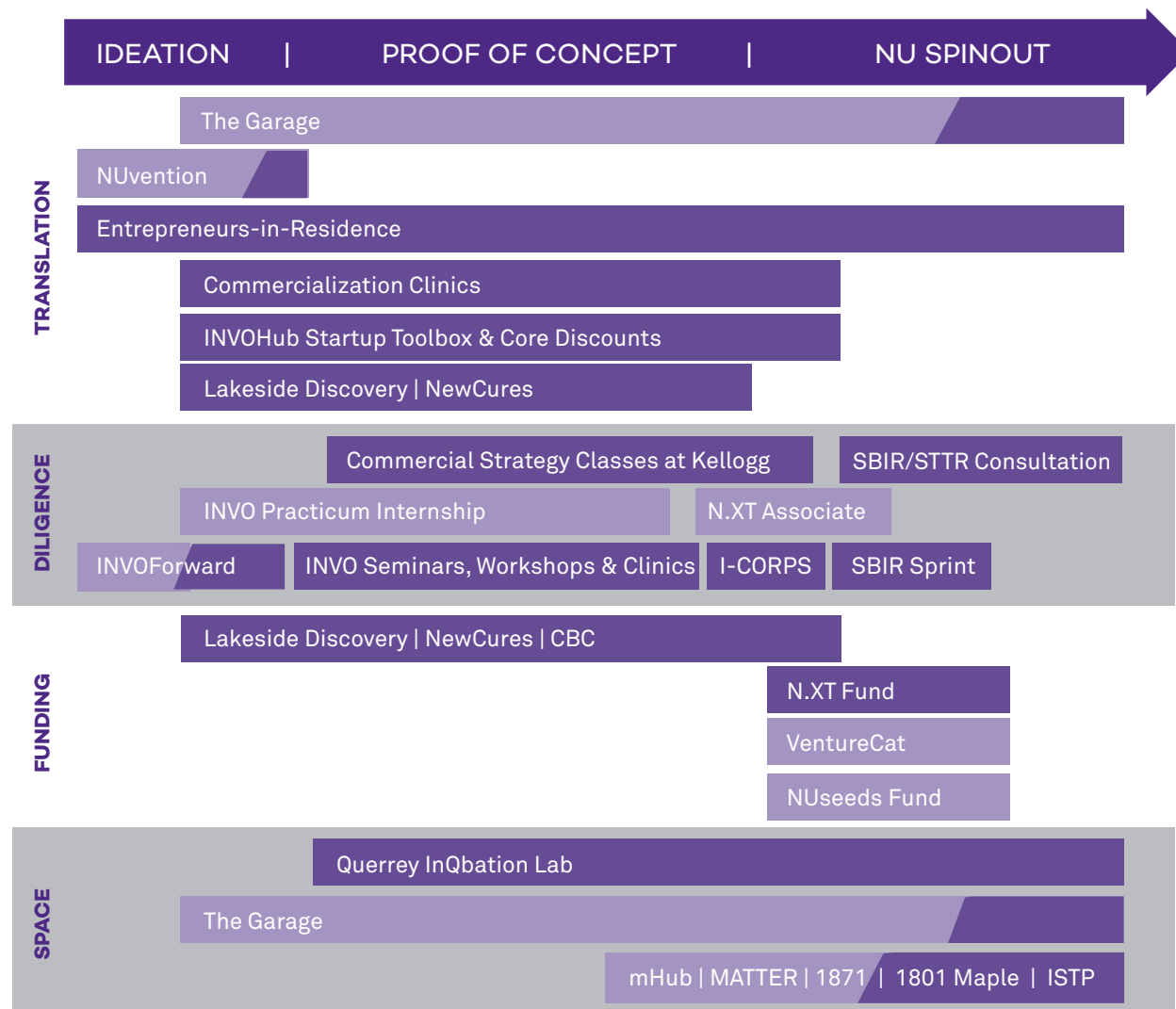
In addition, non-prosecution expenses are incurred as a result of inevitable inventorship issues such as license disputes, interferences, and bankruptcy.

COMMERCIALIZATION RESOURCES AT NORTHWESTERN

Translating innovative technologies from the lab to the market takes time and resources. It's an arduous and complex but necessary journey. The majority of advanced technologies out of the university, including computer software, electronics, medical devices and nanotechnology, requires research, market validation, testing, and much more to reach the public's hands.

INVO and Northwestern University at large support the commercialization of technologies throughout the earlier ideation and proof of concept stages as well as the initial phases of new company formation. Resources spanning translation, diligence, and access to funding and physical space are outlined here.

RESOURCES SPANNING TRANSLATION, DILLIGENCE, AND ACCESS TO FUNDING AND PHYSICAL SPACE ARE CRITICAL TO COMMERCIALIZATION SUCCESS



Northwestern | INVO

faculty resource | student resource

**WE THRIVE AT THE CROSSROADS OF
ACADEMIC RIGOR AND ENTREPRENEURSHIP**

Overture Games Undergraduates From Music and Computer Science Gamify Musical Practice

A lifelong piano player, Aspen Buckingham (Music '23) found his usual passion for practice waning amid the COVID-19 pandemic. Alone and adapting to new routines, musical practice felt more like a chore than an inspired adventure. The sobering realization sparked reflection. Then, invention.

Buckingham wondered if gamification might re-energize his musical pursuits and perhaps help beginning musicians as well, more than half of whom quit within the first two years because practice can be boring, lonely, and frustrating.



The Overture Games Team

“Motivation, engagement, and a love for music are absolutely vital for every student and Overture Games aims to enhance the joy of playing and studying music...”

A music composition and computer science double major at Northwestern, Buckingham corralled colleagues from his two distinct Northwestern worlds and began developing a video game in which a musical instrument controls the actions of in-game characters. The Overture Games team includes programmers Mercedes Sandu and Jack Burkhardt as well as Erin Park and Steven Jiang, two Northwestern undergraduates who, like Buckingham, felt the burden of practice trumping their joy for music.

Last summer, the Overture team spent 10 weeks in the Jumpstart program, The Garage’s pre-accelerator for early-stage student startups. There, they created numerous iterations and levels of their game, Intervallic, and tested it with local schools and students to generate feedback.

One interesting and encouraging discovery: when students were unable to beat a level on the game, most embraced practice and later returned for a shot at video game redemption. The gamified experience, the Overture team observed, successfully motivated practice and served a dynamic counter to practicing with sheet music.

At Jumpstart’s Demo Day in August 2022, Overture Games captured third-place honors. The startup has since moved into The Garage’s residency program to continue developing Intervallic for market.

“Motivation, engagement, and a love for music are absolutely vital for every student and Overture Games aims to enhance the joy of playing and studying music, which has lifelong benefits in creativity, concentration, memory, and so much more.”

--Aspen Buckingham, Music '23, co-founder, Overture Games

FIG. 12
STARTUPS BY SCHOOL

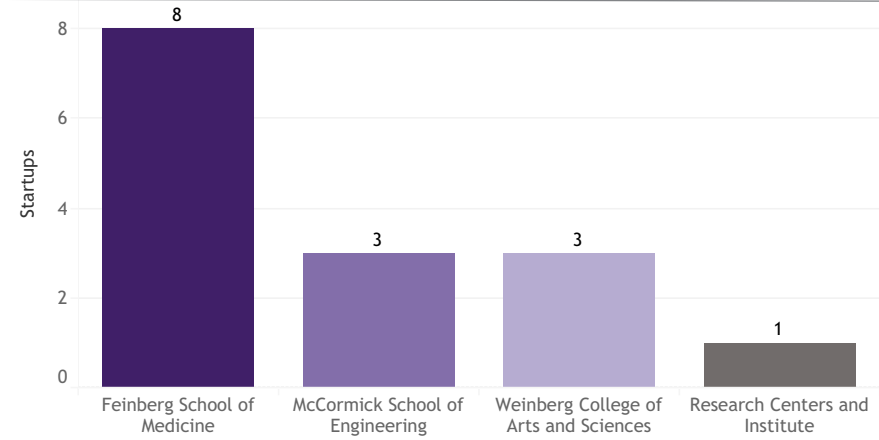


FIG. 13
STARTUPS TIMELINE

Year	Month	Startup	Faculty
2022	September	Lung Healing Technologies Inc.	Prof. Ankit Bharat\FSM
	October	MRL Bio	Prof. Phillip Messersmith\MCC
		Stoicheia, Inc.	Prof. Chad Mirkin\WCAS
	December	NUAgo Therapeutics, Inc.	Prof. Marcus Peter\FSM
		Primelmmune	Prof. Jennifer Wu\FSM
	January	StimuSIL Inc.	Prof. John Rogers\MCC
	February	Echelon Med Tech, LLC	Joint Leads: Washington University in St. Louis NU Prof. John Rogers\MCC
	March	Vibronix, Inc.	Joint Leads: Boston University NU Prof. Daniela Matei\FSM
	May	Vortex Therapeutics, Inc.	Prof. Gary Schiltz\WCAS Prof. Sarki Abdulkadir\FSM
	July	Sera Biopharma	Prof. Catalina Lee Chang\FSM
		Skyway Biosciences	Prof. Thomas McDade\WCAS Prof. William Funk\FSM
	August	RMD Sciences Inc.	Profs. Kazuhiro Shimomura & Phyllis Zee\FSM Prof. Martha Vitaterna\CSCB

Northwestern | INVO
Innovation and New Ventures

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