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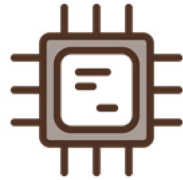
BROWN TECHNOLOGY INNOVATIONS

Quarter in Review | Innovation@Brown Showcase

Spotlight on



Karen L. K. Coulombe, Associate Professor of Engineering, Director of Biomedical Engineering, Founder of CardiacTEEM (Photo Credit: Ashley McCabe Photography)



Innovation of the Year and Inventor of the Year

Showcase Innovation of the Year WINNER

[Six finalist technologies](#) were selected by BTI, its advisory board, and strategic partners. Faculty supporters and Showcase attendees voted on their ultimate winner. We received almost 700 votes, and the winner was...

Kareen Coulombe's Engineered Cardiac Tissues for Regeneration. The aim of cardiac regenerative engineering is to restore both cellular and functional loss after a heart attack, or myocardial infarction (MI). Regenerative cell-based cardiac therapies require advanced biomanufacturing and tissue engineering approaches to create functioning tissue and handle the large number of pluripotent stem cell-derived cardiomyocytes needed. Kareen L. K. Coulombe has developed a method for manufacturing cell-dense engineered human myocardium that can accommodate the estimated one billion cardiomyocytes typically lost during an MI.

Please contact melissa_j_simon@brown.edu if you are interested in learning more.

Showcase Inventor of the Year WINNER

BTI's Inventor of the Year is awarded to the faculty member with the highest number of disclosures submitted during the prior fiscal year.

Wafik El-Deiry

Wafik El-Deiry is the Director of the Legorreta Cancer Center, and his recent disclosures covered new discoveries in many aspects of cancer research, including new drug candidates, combination therapies, new therapeutic targets, and prognostic biomarkers. Dr. El-Deiry is a world renowned researcher and clinician as well as a prolific inventor and entrepreneur. Please contact andrew_bond@brown.edu if you are interested in learning more.

For investors, entrepreneurs, and companies interested in seeing other Brown technologies, click [here](#).



Will Fairbrother, Professor of Biology, Co-founder of Walah Scientific. (Photo Credit: Ashley McCabe Photography)



Startup of the Year

Showcase Startup of the Year WINNER:

BTI's Startup of the Year award, based on a number of criteria including funding over the prior year, was presented by Seema Kumar, CEO of Cure.

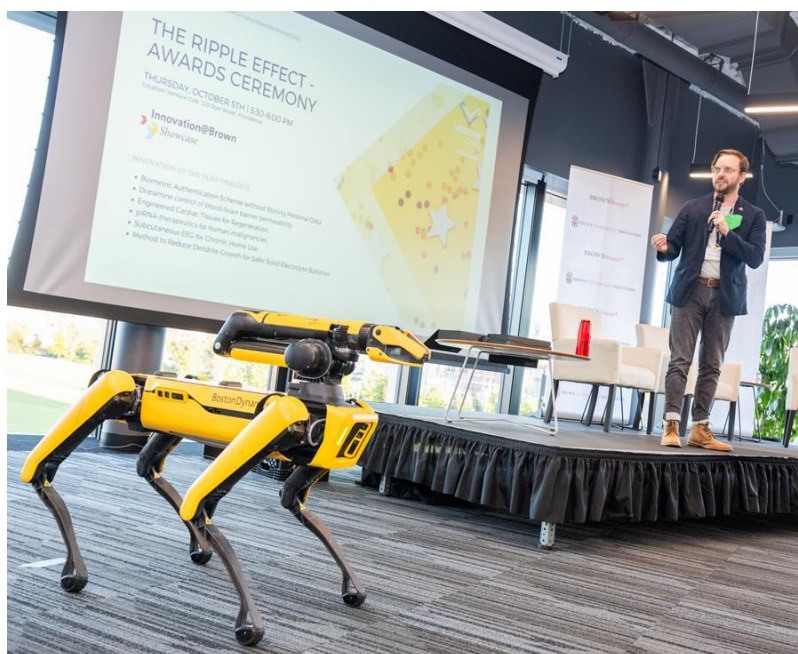
Walah Scientific

Walah Scientific has invented a novel approach to respiratory virus testing. The company's handheld device, called a Bubbler™, captures aerosolized RNA-containing particles from the breath of a subject, who blows into a straw. The breath is bubbled through an oil/aqueous solution/emulsion that contains reagents for carrying out an enzymatic reverse transcriptase (RT) reaction. The device can also be used in settings such as hospital ERs and airports, by attaching a vacuum pump to an air vent. The Bubbler is non-invasive and the test can be multiplexed to identify different variants and viruses. Walah was co-founded and funded by [General Inception](#).

To learn more, contact andrew_bond@brown.edu.

**Thank you to all of the Innovation@Brown
Showcase [participants](#)**

- Adapt
- Adept Materials
- Alcini
- AtomICs
- Bolden Therapeutics
- CareCrowd
- Circadian Positioning Systems
- CardianTEEM
- KardioStatus
- EquiPulse
- Lenoss
- LuxBrain
- NanoDe
- NanoSoft
- PedialyDx
- Research Instruments Corporation
- Sift
- SOMA
- SMöLTAP
- BioAccess
- Theromics
- Tinos Therapeutics Inc.
- Walah Scientific
- XM Therapeutics



Sydney Skybetter, choreographer and Associate Professor of Theatre Arts and Performance Studies and Spot (Photo Credit: Ashley McCabe Photography)



Research

Spot Entertains at the Showcase

When Boston Dynamics released a music video of its robotic Spot dogs dancing to Bruno Mars' "Uptown Funk" in 2018, Sydney Skybetter, a choreographer and Associate Professor of Theatre Arts and Performance Studies, was immediately drawn. In collaboration with Stefanie Tellex of computer science, Skybetter started the Choreorobotics 0101 course, using Spot robots donated by Boston Dynamics. The goal of the course, which draws students from computer science, dance, theater, and engineering, is to teach the next generation of engineers how to create robotics and AI technologies that minimize harm and have a positive impact on society. Attendees at the recent inaugural Innovation@Brown Showcase were treated to three dance performances by Boston Dynamics' Spot robot.

Event Highlights

Miss the Innovation@Brown Showcase? Check out this [video with highlights from the event](#).

Quarter in Review



Brian Demers, Business Development Director, Brown Technology Innovations (Photo Credit: Ashley McCabe Photography)

The Innovation@Brown Showcase had its inaugural event on October 5th during RI Hub's Rhode Island Startup Week. This remarkable gathering highlighted 24 Brown-affiliated technology startups and pre-companies and convened an audience of about 300 investors, entrepreneurs and executives in [Venture Cafe Providence](#). While the Showcase was the result of the hard work of many, our colleague [Brian](#)

[Demers](#), in particular, deserves recognition for the creativity and collaboration that he brought to bear in order to make the Showcase possible. And, we cannot thank enough the [Innovation@Brown Showcase sponsors](#), whose support enabled the Showcase to exceed our expectations.

In many ways, the Showcase is a manifestation of Brown's [Operational Plan for Investing in Research](#). As the university's center for innovation and commercialization, Brown Technology Innovations continues to support the university's research plans. The first quarter of FY24 saw a good jump in new industry sponsored research agreements compared to the year before. Tech Innovations will be increasing its footprint here by pursuing growth in 1) new industry sponsored research agreements and 2) supporting Brown's research enterprise in all grants and awards that have an industry component. For this, see the news story below about Brown's membership in the new ARPA-H Investor Catalyst Hub, based in Boston.

Brown Tech Innovations has been fortunate to have a good base of activity to support these future plans. For a full breakdown of our FY23, check out the [FY23 Annual Report](#). Our previous campaign was marked by growth in both industry sponsored research agreements and exclusive licenses around Brown IP.

First Quarter Numbers for FY24



Put Brown Technology First

Disclosures

FY24 | 16

FY23 | 17



Amplify Networking

Confidentiality Agreements

FY24 | 11

FY23 | 18



Steward Brown Inventions

Patents Issued

FY24 | 4

FY23 | 6



Streamline Deal Execution

Options + Licenses

FY24 | 3

FY23 | 4



Streamline Deal Execution

Sponsored research agreements

FY24 | 9

FY23 | 5

Brown Technology in the News



Innovation@Brown Showcase Event at Venture Cafe Providence on October 5, 2023. (Photo Credit: Ashley McCabe Photography)

Faculty inventions, startups shine at inaugural Innovation at Brown Showcase

The [inaugural Innovation at Brown Showcase](#), held at Venture Café Providence, featured over 20 early-stage startups led by Brown faculty, students and alumni. The showcase featured talks with industry investors and biotech leaders, a panel discussion with Rhode Island startups, and innovation awards recognizing outstanding achievements in entrepreneurship, research and innovation within Brown's entrepreneurial ecosystem.

Brown joins Investor Catalyst Hub

Brown University has joined the [ARPA-H Investor Catalyst Hub](#) consortium of universities, companies, investors, foundations and agencies that will collaborate with ARPA-H to catalyze game-changing breakthroughs in science and medicine. The Investor Hub is located in Boston, and organized by the consortium management firm VentureWell. If you are interested in learning more about the Hub, please contact Neil Veloso of Brown Technology Innovations (neil_veloso@brown.edu) or Karen Bulock (karen_bulock@brown.edu) of BBII.

Vikas Srivastava and team develop new drug delivery system

A main problem in cancer treatment is acidosis, in which the tumor environment becomes overly acidic, increasing the likelihood of metastasis and reducing the effectiveness of chemotherapeutics. A team of Brown biomedical engineers led by Vikas Srivastava has developed a [hydrogel-based delivery system](#) that balances pH levels in the tumor environment while greatly enhancing the cancer-fighting activity of the encapsulated chemotherapy drug.

Anita Shukla named Top 10 Emerging Leaders

The National Academy of Medicine named Anita Shukla (SoE) as [2023 Emerging Leaders](#) in Health

and Medicine Scholars. Professor Shukla's research focuses on designing responsive and targeted biomaterials for applications in drug delivery and regenerative medicine.



Slater Technology Fund invests in Brown startup XM Therapeutics

Jeff Morgan's XM Therapeutics has received [a new round of funding](#) led by Slater Technology Fund. XM Therapeutics will use this new round of funding to focus on pre-clinical studies and cell-based assays for specific diseases.



Visit our website for more detail on these and other stories.

News Stories

Upcoming Opportunities

Three new NIH National Institute on Aging (NIA) funding opportunities

The NIA has three funding opportunities to support entrepreneurial education and early-career scientists: Mentored Entrepreneurial Career Development Award, Entrepreneurship Enhancement Award, and Entrepreneurial Small Business Transition Awards. [Learn more about these awards.](#)

Faculty Entrepreneurship Roundtable

Join us for [Faculty Entrepreneur Connect](#), an opportunity to meet and network with other entrepreneurially-minded faculty. Mark your calendar for two upcoming sessions: Matt Lukens will speak about the importance of Customer Discovery on November 17th. Eva Garland Consulting will discuss SBIRs/STTRs on December 15th. Both sessions will be held at 10am at the Nelson Center.



Now accepting applications: Brown Biomedical Innovations to Impact (BBII)

BBII is an accelerator fund supporting biomedical technologies with high impact potential to become attractive to industry partners and investors. Pre-

proposals accepted now through Dec. 15. Learn about [BBII](#) or contact [Karen Bulock](#) for details.

Calling all faculty, postdocs, and grad students in STEM!

[Equalize](#) takes national action around the disparity of women academic inventors forming university startups. Participants receive education, a field-specific mentor, and access to networks that drive new entrepreneurial connections. [Apply for 2024](#).

Investors, entrepreneurs, and companies interested in seeing other [Brown technologies](#).

Meet the Team

[Reporting an Invention and other resources for Faculty and Staff](#).

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