

2022 IMPACT REPORT

BILL L. HARBERT
INSTITUTE FOR
INNOVATION AND
ENTREPRENEURSHIP



BILL L. HARBERT INSTITUTE
FOR INNOVATION AND ENTREPRENEURSHIP

The University of Alabama at Birmingham

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OUR MISSION

The Bill L. Harbert Institute for Innovation and Entrepreneurship (HIEE) fosters an entrepreneurial community and innovative ecosystem at UAB and provides the infrastructure required for faculty, staff, and students to commercialize innovation within the region and beyond.

STANDOUT NUMBERS FOR 2022

4

Start-ups Launched

\$5.6M

Revenue
Generated

53

Innovate
Fellows
Reports

8th

Straight Year
in the Black

8

U.S. Patents
Issued

7

UAB Start-ups Received
Grants from Alabama
Innovation Corporation

108

Intellectual
Property Disclosures

417

Inventors Engaged

39

Licenses Executed

NEWS & HIGHLIGHTS



Thaddaeus Kwan, one of the very first Innovate Fellows, took a deep dive into how it felt to come full circle and actually lead the program.



[Read more](#)

Seven UAB start-ups received grants from the Alabama Innovation Corporation.



Those seven included:

- AeroNeph Therapeutics, Inc.
- AI Metrics, LLC
- Endomimetics, LLC
- Reliant Glycosciences, LLC
- Sunfire Biotechnologies, LLC
- Trialtus Bioscience, LLC
- TruSpin Nanomaterial Innovation, Inc.



[Read more](#)



HIIE Executive Director Kathy Nugent, Ph.D., was honored twice by the Birmingham Business Journal in 2022. In July, Nugent was named one of the BBJ's 60 most influential executives in Birmingham, along with UAB President Ray Watts, M.D. Then in September, she was chosen as one of the 2022 Top Birmingham Women.



[Read more](#)





One of HIIE's newest start-ups, Zorro-Flow, specializes in devices designed to safely and effectively collect urine in critically ill female neonates and infants less than 1 year old. Correctly measuring urine production is essential for proper patient care.



[Read more](#)



IN8bio, the UAB start-up company

behind innovative therapeutic research toward treating aggressive brain cancers, expects to advance its lead solid tumor drug program into Phase 2 clinical trials next year.

[Read more](#)



Stay up-to-date with all the HIIE news by following us on social media!



NATIONAL ACADEMY OF INVENTORS



In 2022, the HIIE launched the UAB chapter of the National Academy of Inventors. The inaugural class included:

- Gattadahalli Anantharamaiah, Ph.D.
- Venkatram Atigadda, Ph.D.
- David Briles, Ph.D.
- Vladimir Fedorov, Ph.D.
- William Ferniany, Ph.D.
- George Gillespie, Ph.D.
- James Johnston, M.D.
- John Kappes, Ph.D.
- Richard Marchase, Ph.D.
- Sergey Mirov, Ph.D.
- Jan Novak, Ph.D.
- Haibin Ning, Ph.D.
- Moon Nahm, M.D.
- Cynthia Owsley, Ph.D.
- Selvam Pillay, Ph.D.
- Dean Sicking, Ph.D.
- Gary Warner



2022 INNOVATION AWARDS



Recipients of this year's Innovation Awards included:

1 **EntrepreHER Award**, Anath Shalev, M.D.

2 **Start-Up of the Year**, ResBiotic

3 **Most Outstanding Entrepreneurship Student**, Patrick Murphy, Ph.D., accepting for recipient Malcolm J. Hollifield

4 **Award for Excellence in Entrepreneurship**, IN8bio

5 **Community Partnership of the Year**, First Avenue Ventures

6 **Most Prolific Inventor**, Ramaraju Rudraraju, Ph.D., accepting for recipient James Kirklin, M.D.

2022 START-UPS

Alveolus™

Alveolus Bio is a drug development company creating FDA-approved inhaled therapeutics for chronic lung diseases. The company currently has seven drug development programs at various stages, designing therapies to treat conditions such as COPD, BPD and pulmonary hypertension.

ResBiotic™

ResBiotic Nutrition, Inc., is a CPG company creating science-backed, clinically tested over-the-counter supplements to support gut, lung and immune health. The company's flagship product, resB Lung Support, was named 2022's "Most Innovative Probiotic" by Global Health and Pharma Magazine.

RESEARCH

TPM Research engineers ergonomic patient transport vehicles that safely and comfortably work for both patients and the hospital staff responsible for their care.

URINE. BUT YOU'RE OUT

Zorro-Flow specializes in devices designed to safely and comfortably collect urine in critically ill female neonates and infants less than 1 year old. A male version of the device is in the works.

OUR TEAM



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“

If you see a gap in your ability to care for your patients, spend some time thinking about how innovation can help you better care for your patients. Speak to people in the HIE and around campus who understand patents, commercialization and the business of devices and drugs.

”

*David Askenazi, M.D., MSPH
Founder of 2022 UAB start-up Zorro-Flow*

