

APRIL 2024

HEALTH SECTOR ADVISORY COUNCIL

# DEVELOPED @ DUKE



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# Duke Fuqua School of Business

Washington Duke Inn & Golf Club

3001 Cameron Blvd, Durham, NC 27705

April 5, 2024

- 8:30 a.m. Light Breakfast
- 9:00 a.m. Welcome and Updates  
Bill Boulding  
Dean  
The Fuqua School of Business  
  
David Ridley  
Faculty Director, Health Sector Management  
The Fuqua School of Business
- 9:10 a.m. Introductions
- 9:30 a.m. Council Member Show & Tell: "Implications of the Change Healthcare Cyberattack."  
Aaron McKethan (Aledade)
- 10:00 a.m. Duke Student Innovation  
Jamie Jones (Duke I&E) & Runo Obafemi (Duke Student)
- 10:35 a.m. Break
- 10:55 a.m. Duke Research: "FDA is Not Inspecting Overseas. What Should We Do?"  
David Ridley
- 11:30 a.m. Duke Research: "A Universal Vaccine"  
Kevin Saunders (Duke Vaccine Institute)
- 12:10 p.m. Concluding comments  
David Ridley
- 12:20 p.m. Adjourn  
Lunch Buffet in the Vista Center



## Speakers

*In presentation order*



### **Bill Boulding, PhD**

#### **JB Fuqua Professor of Business Administration and Dean Duke Fuqua School of Business**

Bill Boulding is the JB Fuqua Professor of Business Administration and Dean at The Fuqua School of Business, Duke University. William “Bill” Boulding is an accomplished scholar with a passion for helping advance business as a force for good.

He has advocated at the top levels of government, industry and academia for ways that enable business to improve society. Bill’s strong belief in creating future business leaders who have the ability to bring people who are very different together to work toward a common goal led to the school’s number-one ranking by *Bloomberg Businessweek* in 2014.

Bill served as a member of the World Economic Forum’s Council on Values and the board of the Graduate Management Admission Council (GMAC®), which is the organization that administers the GMAT exam. He is currently chair of the Board of Directors of Duke Corporate Education, board member of The New York Climate Exchange, and serves on Swarthmore College’s Board of Managers.

Bill received his BA in Economics from Swarthmore College and his PhD in Managerial Sciences and Applied Economics from the Wharton School, University of Pennsylvania.



### **Aaron McKethan, PhD**

#### **CEO**

#### **Aledade Plus**

Aaron McKethan is the CEO of Aledade Plus, the company’s health services unit. His prior roles in state and federal government, academia, and industry have centered on population health. Prior to joining Aledade, Aaron co-founded and led two health care data science and technology companies (NoviSci and RxAnte).

Aaron holds a PhD from the University of North Carolina at Chapel Hill, where he also received his undergraduate degree. He is an adjunct professor in population health at the Duke School of Medicine and Senior Policy Fellow at the Duke Margolis Center for Health Policy. He also serves on several non-profit boards, including the Samaritan Health Center in Durham, NC.

## Speakers



**Jamie N. Jones, PhD**  
**Director, Innovation & Entrepreneurship (I&E)**  
**Duke University**

Jamie serves as Director for Duke Innovation & Entrepreneurship (I&E) and is an Associate Professor of the Practice of Management at the Fuqua School of Business.

Jamie previously served as Executive Director of the Fuqua Center for Entrepreneurship and Innovation (CEI) where she launched initiatives addressing barriers to entrepreneurial action for historically marginalized communities, specifically *FoundHER* and *pitch: A competition for Black founders*. She teaches courses on new venture formation and execution: *New Venture Discovery*, *New Venture Development*, and *Entrepreneurial Execution*, and was honored with the Excellence in Teaching Award (elective course) by the Fuqua class of 2021.

Prior to joining Duke, Jamie served as the Executive Director of the Liu Idea Lab for Innovation & Entrepreneurship (Lilie) at Rice University where she focused on developing curricular and co-curricular programs for students and faculty across the university. She taught courses on *Financing the Startup Venture* and *Design Thinking*, as well as managed the student-led Rice Venture Fund.

Prior to joining Rice, Jamie was an Innovation Advisor at RTI International, a leading nonprofit research institute based in North Carolina, where she supported companies, governments, and non-governmental organizations in their quest to commercialize technology-driven new products.

Jamie has experience combining design thinking and Lean Startup practices to optimize business models. She has worked in India, East and West Africa, and Latin America on health, agriculture, education, and water-focused ventures. Her contributions have been recognized by the Triangle Business Journal 40 Under 40.



**Runo Obafemi**  
**Co-founder**  
**Betacare**

Runo Obafemi, a Duke MBA student '25 (HSM), blends her expertise in technology and passion for healthcare to tackle social challenges.

With a background in Computer Science and prior experience in risk consulting at KPMG, she co-founded Betacare, a Nigerian-based telemedicine company.

Committed to democratizing healthcare access in sub-Saharan Africa, Runo will return to consulting and will join BCG this summer to deepen her business expertise. Ultimately, she aspires to become a social entrepreneur, scaling Betacare's impact globally and revolutionizing health care in developing countries.

## Speakers



**David Ridley, PhD**  
**Faculty Director, Center for Health Sector Management**  
**Duke Fuqua School of Business**

David Ridley is the Faculty Director for the Center for Health Sector Management at Duke University's Fuqua School of Business. David is dedicated to creating innovative policy and business tools to address health care problems. He focuses on incentives for innovation and quality, as well as pricing.

David and his colleagues have published two papers that became law. In 2006, David (with Jeffrey Moe and Henry Grabowski) proposed the Food and Drug Administration's priority review voucher program. In 2017, David (with Jeffrey Moe and Nick Hamon) proposed the Environmental Protection Agency's vector expedited review voucher program. His research has been supported by the Bill & Melinda Gates Foundation and the National Institutes of Health.

David teaches courses on health care policy and business strategy to Duke University graduate students. He earned his doctorate in economics from Duke University.



**Kevin O. Saunders, PhD**  
**Associate Director, Director of the Laboratory of Protein Expression,**  
**and Faculty Chairperson for Diversity, Equity, and Inclusion**  
**Duke Human Vaccine Institute**

Dr. Kevin O. Saunders graduated from Davidson College in 2005 with a Bachelor of Science in Biology. At Davidson College, he performed research identifying the genetic basis of infertility. Dr. Saunders completed his doctoral research on CDS+ T cell immunity against HIV-1 infection with Dr. Georgia Tomaras at Duke

University in 2010. He subsequently trained as a postdoctoral fellow in the laboratories of Ors; Gary Nabel and John Mascola at the National Institutes of Health NIAID Vaccine Research Center.

In 2014, Dr. Saunders joined the faculty at the Duke Human Vaccine Institute as a medical instructor. In this role, he analyzed antibody responses in vaccinated macaques, which led to the identification of glycan-dependent HIV antibodies induced by vaccination. Dr. Saunders was appointed as a non-tenure track Assistant Professor of Surgery and the Director of the Laboratory of Protein Expression in the Duke Human Vaccine Institute in 2015. He successfully transitioned to a tenure-track appointment in 2018, and was later promoted to the rank of Associate Professor with tenure in Surgery in 2022.

In 2024, Dr. Saunders became the Norman L Letvin Professor in Immunology and Infectious Diseases Research in Surgery and the Duke Human Vaccine Institute. Dr. Saunders serves within the Duke Human Vaccine Institute as the institute's Associate Director, Director of the Laboratory of Protein Expression, and Faculty Chairperson for Diversity, Equity, and Inclusion. *(continue on next page)*

## Speakers

His current research interests include vaccine and antibody development to combat viral infections.

Dr. Saunders has given invited lectures on his research at international conferences including International Society for Vaccines Congress, International AIDS Society, HIVR4P, and IDWeek meetings. Dr. Saunders has appeared on local, national, and international television and radio programs to discuss vaccines. He has authored book chapters and numerous journal articles; holds patents on vaccine design concepts and antiviral antibodies; and has garnered awards such as the 2022 International Society for Vaccines Paper of the Year.



# 2024 HSAC Members

**Adarsh Babu**

Worldwide Product Director  
*DePuy Synthes*

**Charles Bass**

Senior Director  
Global Commercial Strategy Neuroscience  
*Janssen Pharmaceutical*

**Durga Bobba**

Vice President, Vaccines Commercialization Lead  
*GSK*

**Bradley Campbell**

President, & Chief Executive Officer  
*Amicus Therapeutics*

**Brian Caveney**

President, LabCorp Diagnostics, & Chief Medical Officer  
*Laboratory Corporation of America*

**Annette DuBard**

Senior Advisor & Vice President  
*Aledade*

**Bill Gradison**

Former Representative  
*US Congress*

**Brad Hirsch**

Head of Product & Implementation  
*Verily*

**Jim Kinser**

Assistant Vice President, Strategy & Innovation  
*HCA Healthcare*

**Christopher Martin**

President  
*American Health Associates*

**Aaron McKethan**

CEO, Aledade Plus; GM, New Ventures  
*Aledade*

**David Price**

Former Representative  
*US Congress*

**Bernie Tobin**

General Manager  
*Natera*

# Duke University Affiliates

**George Abercrombie**

Adjunct Professor  
*Duke Fuqua School of Business*  
Former CEO, Roche  
HSAC Co-Founder

**David Ridley**

Faculty Director  
Center for Health Sector Management  
Dr. and Mrs. Frank A. Riddick Fellow  
*Duke Fuqua School of Business*

**Bill Boulding**

Dean  
J.B. Fuqua Professor of Marketing  
*Duke Fuqua School of Business*

**Devdutta Sangvai**

Associate Chief Medical Officer  
Professor, Family Medicine and Community Health  
*Duke University Health System*

**Henry Eyring**

Assistant Professor  
*Duke Fuqua School of Business*

**Erica Taylor**

Associate Chief Medical Officer, Private Diagnostic  
Clinic Chief of Surgery, *Duke Raleigh*

**Mary Frances Luce**

Associate Faculty Director  
Center for Health Sector Management  
Robert A. Ingram Professor of Business  
*Duke Fuqua School of Business*

**Krishna Udayakumar**

Associate Professor, Global Health and Medicine  
Director, Global Health Innovation Center  
*Duke Global Health Institute*

**Mark McClellan**

Director, Duke-Margolis Center for Health Policy  
Professor of Business, Medicine and Policy  
*Duke University*

**Charlene Wong**

Assistant Secretary for Children and Families,  
NCDHHS Associate Professor, Pediatrics  
*Duke University Health System*

**Jeffrey Moe**

Professor of the Practice of Global Health  
*Duke Global Health Institute*  
HSAC Co-Founder

# Gift Guide: All products were developed by Duke entrepreneurs

## AHAV COOKIE DOUGH BITES

AHAV (Founder and CEO [Liam Frumkin](#) '25)



AHAV is all about healthy snacks with recognizable ingredients that actually satisfy your cravings! AHAV cookie dough bites are vegan, gluten free, high protein, high fiber, have healthy fats, and are made with only 5-6 ingredients. Inspired by founder Liam Frumkin's journey with an eating disorder, AHAV donates a portion of all proceeds to the National Eating Disorder Association. Life is complicated—our food shouldn't be!

## BIENA SNACKS TASTY THINS

Biena Snacks (Founder and CEO [Poorvi Patodia](#) MBA '05)



Biena Snacks are the perfect combination of healthy and delicious snacking. Tasty Thins are crispy veggie chips with 35 chips per serving so you can snack more and enjoy more. For a satisfying and nutritious snack, try the Roasted Chickpeas, packed with protein and fiber, and crafted with flavorful seasonings. Biena is distributed in 15,000 stores around the country!

## BIG SPOON ROASTERS NUT BUTTERS

Big Spoon Roasters (Co-Founder and COO [Megan Lynam Overbay](#) MBA '03)



Big Spoon Roasters makes handcrafted nut butters and snack bars made from scratch with world-class ingredients sourced directly from local and like-minded vendors who share a dedication to authentic quality and sustainability.

## YITTO PAWS ORGANIC DOG TREATS

Yitto Paws (Founder [Bruce Von Stein MBA '93](#))



Founded with a mission to prioritize the health and happiness of dogs, Yitto Paws uses the safest, most delicious, most nutritious human-grade ingredients. Explore popular granola-based dog treats, gear, safety products, apparel, books, and greeting cards from Yitto Paws.

## THE WOOBLES PENGUIN CROCHET KIT

The Woobles (Co-Founders [Justine Tiu BSE '11](#) and [Adrian Zhang BSE '11](#))



Pierre the Penguin and his buddies have come to life in the hands of 400,000+ crochet beginners. And with the help of step-by-step video instructions, he'll soon be sliding his way straight into yours as well! The Woobles is about more than just learning to crochet. It's about proving to yourself that you can always learn something new.

For a list of more products developed by Duke entrepreneurs,  
click on the QR code



Duke  
1924-2024  
100

# A Century of Innovation at Duke University

Duke University has always been known as a place of high-quality education and research, but perhaps less known is the impact Duke innovators and their innovations have had in the marketplace and for public benefit. From new therapies to engineering marvels and everything in between, Duke inventions – and more recently start-ups created to commercialize these inventions – are making a positive impact on society.

This physical exhibit is intended to highlight a variety of inventions and inventors from across Duke. Even more innovations, products, and start-ups can be found on our digital timeline by scanning the QR code below.



Duke TRANSLATION  
& COMMERCIALIZATION

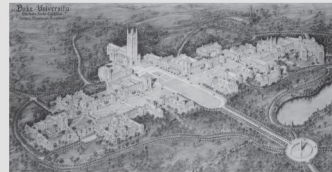
Learn more about how OTC supports  
Duke inventors on our website: [otc.duke.edu](https://otc.duke.edu)

1920  
1930

1924

## Duke University established

James B. Duke highlights his wish for an engineering school in the Indenture of Trust. The following year, Duke makes an additional bequest to establish the School of Medicine.

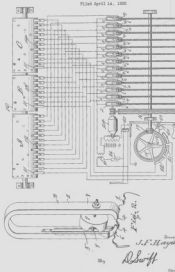


1925

## Chronophone

An automated approach to reading out the time to callers.  
Invented by Jesse F. Hayden, an 1896 Trinity College graduate

March 17, 1925  
J. F. HAYDEN  
INVENTOR  
Filed April 14, 1925

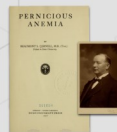


1927

## Pernicious Anemia book

Duke University researchers focus on studying pernicious anemia after the disease killed James B. Duke, discovering a new treatment: a diet of calf liver.

Book written by Beaumont S. Cornell, a Duke University Medical Research Fellow



1930s

## Annual Engineers' Show

Student-organized displays showcasing technological marvels like television to the Duke and Durham community. These shows were put on annually for several decades.



1936

## UV for hospital room sterilization

Pioneering the use of ultraviolet radiation to sterilize operating rooms.

Developed by Deryl J. Hart, first Chair of Surgery and eventual Duke University President - Hart also launches Duke's Private Diagnostic Clinic, Surgical Instruments Shop and medical illustration department.



1937

## The Preston Robert Tisch Brain Tumor Center created

One of the first brain tumor research and clinical programs in the United States, this center houses over 250 full-time employees dedicated to neuro-oncology research and care.

 The Preston Robert Tisch  
Brain Tumor Center

1938

## Equine encephalomyelitis vaccine

A killed-virus vaccine for "blind staggers." Saves hundreds of thousands of horses and helps confirm that killed-virus vaccines are safe and effective. Dorothy Beard research fund is established with the royalties from patent licensed to the manufacturer, Lederle Labs.

Invented by Joseph W. Beard, Professor of Surgery, and his wife and research partner Dorothy Beard





1940  
1950  
1960

1942  
to  
1945

### G-suit for pilots

Major contributions to the creation of suits that prevent pilot and astronaut blackouts during high g-force maneuvers.

Developed by Frank Gregory Hall, acting Chair of Biology – The hyperbaric chamber research facility on campus is named the F. G. Hall Laboratory in his honor.



1943

### Frangible bullet for aerial gunner practice

A bullet that breaks upon impact, for use during training. Developed for WWII, this is still Duke's largest military research project – 13 million rounds are fired by student gunners without a single target plane pilot injury.

Invented by Paul M. Gross, Chair of Chemistry



1945

### First patent assigned directly to Duke University

This patent protects a novel way to extract gelose from seaweed.

Invented by Harold Judson Humm, Professor of Botany and an early Director of the Marine Lab

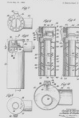


1954

### The Duke Inhaler

Developed for handheld, self-administered delivery of the painkiller Trilene, manufactured by Ayerst Laboratories.

Invented by C. Ronald Stephen, an early Chief of Anesthesiology

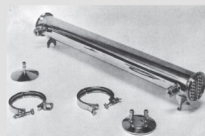


1957

### Blood heat exchanger

Resulting from a collaboration between researchers from Duke University Medical Center and General Motors, this device – a precursor of modern heart-lung machines – allows for precise control of blood and body temperature, enabling open heart surgery.

Invented by Ivan W. Brown, Jr., Professor of Surgery



1968  
and  
1976

### The Medical Record and Duke Hospital Information System (DHIS)

Duke University is one of the first hospital systems to employ electronic medical records, and also among the first to computerize its hospital management. Partners at IBM later commercialize DHIS for other hospital systems.

Led by William Ed Hammond, Director of the Duke Center for Health



1969

### Duke Databank for Cardiovascular Disease

The world's oldest and largest cardiovascular database, DDCC introduces a novel, computer-assisted, data-driven approach to generating evidence for cardiovascular clinical research studies.

Led by Eugene A. Seest, Jr., Chair of the Department of Medicine



1970  
1980  
1990

1970

### Foundational work in head trauma

Starting with the cranial bone, Duke researchers describe the mechanical properties of the head, neck, and spinal cord. These models inform the design of modern protective equipment from football helmets to airbags.

Led by James McElhenny, Chair of Biomedical Engineering



1973

### Discovery of G protein-coupled receptors

Develops the foundation for our understanding of how cell signaling functions, leading to a Nobel Prize and founding of two companies: Trevena (2007) and Septerna (2022). G protein-coupled receptors are the target for over a third of all medications today.

Led by Robert Lefkowitz, Professor of Medicine

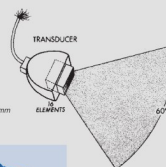


1976

### Phased-array imaging

Foundational research that revolutionizes cardiac imaging and paves the way for future Duke ultrasound developments.

Invented by Fritz Thurnher, co-founder of Duke's BME department, and then-graduate student Cliff van Haren



#### PRODUCTS

- Grieshaber system surgical tools (Robert Machemer, Ophthalmology) (1979)



1982

### Artificial gill system prototyped

This sponge-like material includes hemoglobin to extract oxygen from water, for use by divers to breathe underwater. The technology is licensed to Aquanautics for \$1M.

Invented by Joseph and Celia Bonaventura, researchers in the School of Medicine and the Marine Lab



1984

### Duke-RTI Cochlear Implant Program

Collaborative research improves implants for hearing – in particular, signal processing breakthroughs that have become standard in the industry.

Developed by Blake S. Wilson, Director of the Duke Hearing Center, Losker Prize winner for this work



1986

### Office of Technology Transfer established

Originally established on the medical side of Duke, the tech transfer office was revitalized several times and has been known by other names – like the Office of Science and Technology and the Office of Licensing and Ventures.

1987

### Sphinx Pharmaceuticals

Duke's first biotech spinout, Sphinx develops several potential cancer therapeutics. It has a \$75M IPO in 1991 – the biggest IPO in state history up to that point. It is then acquired by Eli Lilly in 1994.

Founded by Robert M. Bell, Professor of Biochemistry



#### START-UPS

- Aquanautics (1983)
- Sphinx Pharmaceuticals (1987) IPO, 1991 – Acquired by Eli Lilly, 1994

#### PRODUCTS

- Household sponge infused with cleaner (Joseph and Celia Bonaventura, Cell Biology and Earth & Ocean Sciences) (1987)



1990

1990

**Duke Human Vaccine Institute formed**

Established to focus on the development of HIV/AIDS therapies and vaccines, this premier research center has been a hub of vaccine innovation.

*Led by Barton F. Hayes, Director of the DHHI*

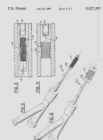


1991

**Bioabsorbable stent**

First stent design that delivers drugs inside blood vessels and then biodegrades, eliminating complications associated with permanent stents. Licensed to Boston Scientific.

*Developed by Howard Clark, Professor of Biomedical Engineering and Materials Science, and Richard Stock, Professor of Medicine*



1993

**Trimeris tackles HIV/AIDS with Fuzeon**

Continuing excellence in developing therapeutics for HIV/AIDS, Duke researchers create a start-up called Trimeris to commercialize fusion inhibitor Fuzeon.

*Lead by David P. Bozzette, Professor of Surgery and Medicine, and Tom Matthews, researcher in the Bozzette lab*



1996

**Duke Clinical Research Institute established**

First and largest academic contract research organization in the world. Building on the DDCD legacy from the 1960s, DCRI establishes a role for academic medicine in innovation for clinical trial research.

*Lead by Robert M. Califf, first Executive Director of DCRI and then an FDA Commissioner*

**START-UPS**

- Trimeris (1993) IPO, 1997
- FibroGen (1995) IPO, 2014
- Argos Therapeutics (1999) Acquired by SCM Life Sciences, 2019



2004

**Commercializing OCT advances**

New methods and devices for optical coherence tomography developed by Duke researchers spawn a start-up, BiopTigen, which is acquired in 2015 by Leica Microsystems.

*Yonhua Tu, Professor of Ophthalmology, and Joseph Izatt, Professor of Biomedical Engineering*



2006

**Myozyme approved by FDA**

The first approved therapeutic for the rare pediatric metabolic disorder called Pompe disease, this drug generates over \$1B in annual sales. Licensed to Sanofi.

*Invented by Professors of Pediatrics Y. T. Chen and Priya Kishnani*



2006

**Metamaterial advances**

Duke researchers and colleagues continue pioneering the field of metamaterials, composite materials designed with exotic properties, including the development of an invisibility cloak. Metamaterial work has spawned multiple products and start-ups out of Duke.

*Invented by David Smith, Professor of Electrical Engineering*

**START-UPS**

- Aerie Pharmaceuticals (2005) IPO, 2013 – Acquired by Alcon, 2022
- Humacyte (2006) IPO, 2021
- Precision BioSciences (2006) IPO, 2019

**PRODUCTS**

- Latisse (Elise Olsen, Dermatology) (2008)
- MathJobs.org & AcademicJobsOnline.org (Yunliang Yu, Mathematics) (2007)



2010

2010

**Krystexxa approved by the FDA**

A treatment for severe gout, this therapeutic is estimated to generate over \$1.5B in peak U.S. annual sales. Licensed to Horizon Therapeutics.

*Invented by Professor of Medicine Michael Hershfield*



2015

**Duke Capital Partners launched**

Originally known as the Duke Angel Network, this investing group of Duke alumni helps fund and mentor dozens of Duke-affiliated start-ups.



2017

**First annual Invented at Duke**

Harkening back to the annual Engineers' Show of yore, this event celebrates and showcases inventions and inventors from across the university.



2018

**Duke New Ventures established**

A more formalized process – and a director-level position – is created to assist Duke entrepreneurs guide spinouts out of the lab and into the market.



2019

**The Center for Advanced Genomic Technologies (CAGT) formed**

This interdisciplinary center brings together engineers, scientists, and clinicians to continue building on Duke's strong genome research expertise.

*Lead by Charles Gerhardt, Director of CAGT and Professor of Biochemistry*

**START-UPS**

- Kymeta (2012)
- InnAvasc (2014) Acquired by Gore, 2022
- Polarean (2014) IPO, 2018
- Element Genomics (2016) Acquired by UCB, 2018
- IonQ (2016) IPO, 2021
- Actus Therapeutics (2017) Acquired by Bayer, 2020
- Isolere Bio (2017) Acquired by Donaldson, 2023
- Realtime Robotics (2017)

**PRODUCTS**

- Neurological stimulation programming methods (Warren Grill, Biomedical Engineering) (2016)
- DoseWatch system for CT scans (Xiaoyu Tian, Biomedical Engineering) (2017)
- TAMS Nurse teaching assignment management system (David Bowersox, Nursing) (2017)



2021

**Rebranding as Office for Translation & Commercialization**

OLV rebrands as OTC and expands offerings to Duke inventors to include early-stage translational funding and investment in Duke-affiliated start-ups through Duke Capital Partners, now a part of OTC.



2022

**Gilhuly Accelerator Fund launched**

With initial support from Duke Board of Trustees member Ned Gilhuly, this OTC translational fund is established to support asset development and de-risking activities for promising early-stage technologies.

**START-UPS**

- Basking Biosciences (2020)
- Sparta Biomedical (2020)
- 374Water (2021) IPO, 2022
- Domus Diagnostics (2021)
- Tune Therapeutics (2021) IPO, 2021
- Warden Bio (2021) Acquired by Kiriya Therapeutics, 2022

**PRODUCTS**

- Uplizna (Thomas Tedder, Immunology) (2020)
- Rethymic (Louise Markert, Pediatrics) (2021)
- Orserdu (Donald McDonnell and Suzanne Wardell, Pharmacology & Cancer Biology) (2023)





# HSAC Fall 2023: Transforming Healthcare Payment





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For more information, visit [www.fuqua.duke.edu](http://www.fuqua.duke.edu)

**Center for Health Sector Management**

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