



HONORING **INDIVIDUALS** FOR
NEW **INVENTIONS, PATENTS,**
& **LICENSED TECHNOLOGIES**

INNOVATION 2022 AWARDS

THURSDAY **OCTOBER 13**
HILTON OMAHA
5:00 PM



tech transfer for nebraska

MISSION

UNeMed fosters innovation, advances research, and engages entrepreneurs and industry to commercialize novel technologies

402-559-2468 | unemed@unmc.edu | unemed.com | @UNeMed

4460 Farnam St., Ste. 3000, Omaha, Nebraska, 68198-6099

INNOVATION AWARDS SCHEDULE

Welcome

Michael Dixon, PhD
President and CEO,
UNeMed

Opening Remarks

Jeffrey Gold, MD
Chancellor,
University of Nebraska Medical Center

Joanne Li, PhD
Chancellor,
University of Nebraska at Omaha

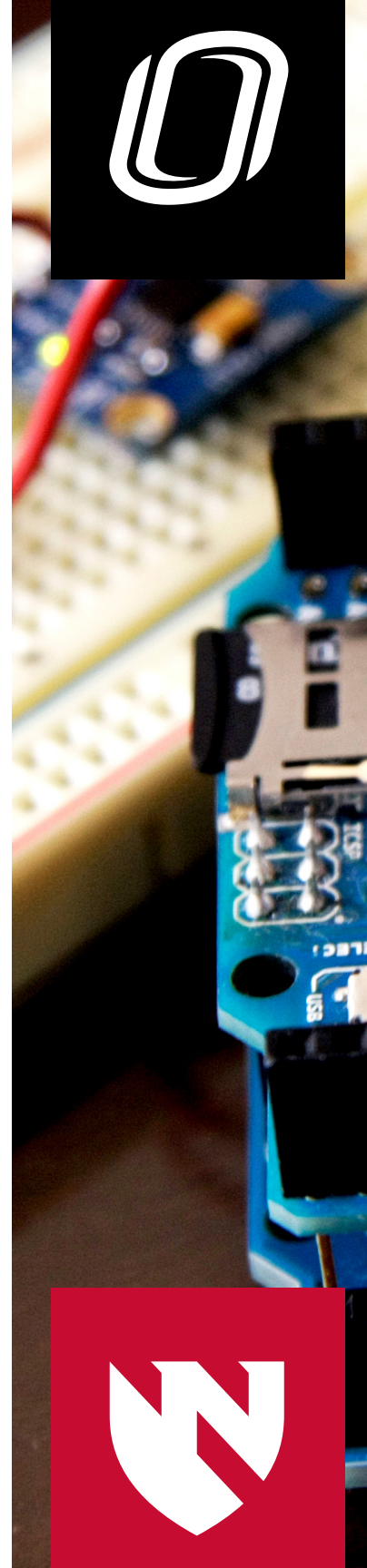
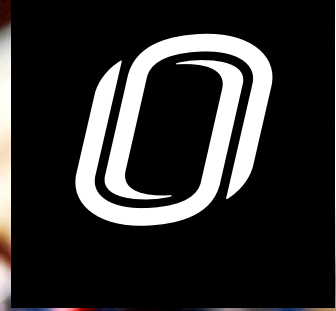
Innovation Rewind: The Year in Review

Michael Dixon, PhD
President and CEO,
UNeMed

Presentation of Awards:

- New Inventions
- Issued Patents
- Licensed Technologies
- Startup of the Year
- Most Promising New Invention
- Emerging Inventor

Matt Boehm, PhD
Director of Licensing,
UNeMed





On behalf of UNMC and UNO leadership and UNeMed staff, we welcome you to the 2022 Research Innovation Awards ceremony as we celebrate all those who make our continued existence possible: You, the innovative UNMC and UNO faculty, staff and students who we honor today.

Our mission is simple: *UNeMed fosters innovation, advances research, and engages entrepreneurs and industry to commercialize novel technologies.*

Innovations all have the same humble beginning—an idea or a hypothesis. The path for an idea to become a product that improves the lives of millions is a daunting and perilous journey fraught with many obstacles. That is why UNeMed was created 30 years ago. We are here to help provide the advice, pathways and connections for your idea to grow and make the world a better place.

The Innovation Awards represent the culmination of Innovation Week as we celebrate the creators of novel technologies. Today, we will recognize the inventors who have submitted new inventions, received U.S. patents, and had a technology successfully licensed. We will also look to the future by recognizing Exavir Therapeutics as the 2022 Startup of the Year, and honor a pair of UNO innovators as awardees of the 2022 Most Promising New Invention.

We will also honor Bin Duan, PhD, as our Emerging Inventor of the year.

The UNeMed staff is committed to helping you develop your new inventions and make vital connections with industry. Please draw upon our expertise, and visit us at 4460 Farnam Street (Annex 14 on the campus map). Our goal is to help you create relationships that will enable your work to benefit the lives of people throughout Nebraska and around the world.

Sincerely,

A handwritten signature in blue ink, reading 'Michael Dixon'.

Michael Dixon, PhD
President and CEO, UNeMed

INNOVATION
2022
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INNOVATION WEEK HISTORY

Innovation Week dates back to 1998 when UNeMed and the Intellectual Property Office began hosting the Inventor's Recognition Reception, specifically tailored to honor UNMC researchers who had applied for or received patents in the previous year.

In 2007, UNMC restructured its technology transfer efforts into one organization, merging UNeMed with the Intellectual Property Office. UNeMed—under the leadership of then-CEO, James Linder, MD—transformed the Inventor's Recognition Reception into the Research Innovation Awards.

The awards ceremony was the final event in a week of activities that celebrated research and innovation at UNMC. In addition to recognizing researchers who secured intellectual property rights, UNeMed also added emerging inventor and lifetime achievement awards. In 2008 it also added the “Most Promising New Invention” as an annual award. In 2013, UNeMed presented for the first time ever, an “Innovator of the Year” Award. In 2018, another distinction was added when UNeTech—the University's new incubator and accelerator program—presented the first Startup of the Year award. That same year, UNeMed and the University of Nebraska at Omaha formalized their relationship for UNO's deep roster of innovative researchers, faculty, staff and students.

Innovation Week is now about far more than recognizing a handful of scientists with issued patents. It's a celebration that recognizes, rewards and encourages innovative thoughts and ideas, whether they come from the most seasoned and esteemed researcher or a first-year student who might know a better way. The program has grown into the Research Innovation Awards Banquet, an exclusive, invitation-only event that brings together innovators and leadership from two different campuses.

Last year, the Most Promising New Invention was an improved self-pacing treadmill that automatically adjusts its speed to the runner's pace. Three UNO biomechanics researchers developed the self-pacing treadmill: Brian Knarr, MD, Travis Vanderheyden, and Russell Buffum.

The 2021 Startup of the Year award went to UNMC chemist Dong Wang, PhD, and his company, Ensign Pharmaceutical. Dr. Wang is developing a thermosensitive hydrogel formulation called ProGel that could revolutionize the treatment of arthritic joint pain.

Finally, UNeMed's 2021 Innovator of the Year was Hanjun Wang, MD, in recognition of his achievements and innovative work developing novel treatment strategies for a variety of diseases, including heart failure, acute respiratory distress syndrome and peripheral artery disease.

His research focuses on the role that spinal afferent neurons play in regulating disease onset and progression. He has identified a number of different approaches to target spinal afferent neurons. One of these approaches focuses on localized administration of resiniferatoxin, a potent neurotoxin that can ablate specific nerves, which has potential as a possible treatment for hypertension, heart failure, acute respiratory distress syndrome and peripheral artery disease.

Some of those applications have been licensed by an undisclosed biotech company that is working on developing them for clinical use. As part of this relationship, he has brought in more than \$1.1 million in sponsored research to develop this therapeutic approach.



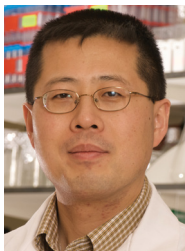
Dr. Knarr



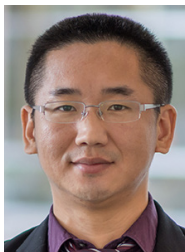
Vanderheyden



Buffum



Dr. D. Wang



Dr. H. Wang





INNOVATION
2022
AWARDS

Most Promising New Inventions

2022	<i>System for Measuring Blood Pressure in Wearable Electronic Devices</i>	<ul style="list-style-type: none"> • Cody Anderson • Song-Young Park, PhD
2021	<i>Improved Self-Pacing Treadmill</i>	<ul style="list-style-type: none"> • Brian Knarr, PhD • Travis Vanderheyden • Russell Buffum
2020	<i>Anterior Cervical Space Spreader</i>	<ul style="list-style-type: none"> • Joseph McMordie, MD • Daniel Surdell, MD
2019	<i>PDE4B Selective Inhibitors</i>	<ul style="list-style-type: none"> • Corey Hopkins, PhD
2018	<i>Multiplex Assay for Rapid Detection of HSV1, HSV2, EBV and CMV by qPCR</i>	<ul style="list-style-type: none"> • Catherine Gebhart, PhD • Varun Kesharwani, PhD
2017	<i>Nanofiber Sponges for Hemostasis</i>	<ul style="list-style-type: none"> • Jingwei Xie, PhD • Shixuan Chen, PhD • Mark Carlson, MD
2016	<i>Compositions for Modulated Release of Proteins and Methods of Use Thereof</i>	<ul style="list-style-type: none"> • Joyce Solheim, PhD • Tatiana Bronich, PhD
2015	<i>Emergency Medicine Care Portfolio: Wound Irrigation System & Oral Airway Management</i>	<ul style="list-style-type: none"> • Michael Wadman, MD, FASEP • Thang Nguyen, MSN, APRN, FNP-C
2014	<i>Orthogonal AquaBlade</i>	<ul style="list-style-type: none"> • Jason MacTaggart, MD
2013	<i>Targeted Glyoxalase-1 Gene Transfer to Prevent Cardiovascular and End-Organ Complications in Diabetes</i>	<ul style="list-style-type: none"> • Keshore Bidasee, PhD
2012	<i>Small Molecule in Vivo Inhibitors of the N-Terminal Protein Interacting Domain of RPA1</i>	<ul style="list-style-type: none"> • Gregory Oakley, PhD
2011	<i>Novel Target for the Treatment of Renal Fibrosis</i>	<ul style="list-style-type: none"> • Babu Padanilam, PhD
2010	<i>Noninvasive Monitoring of Functional Behaviors in Ambulatory Human Populations</i>	<ul style="list-style-type: none"> • Stephen Bonasera, MD, PhD
2009	<i>Novel Antibiotic Compounds</i>	<ul style="list-style-type: none"> • Paul Dunman, PhD
2008*	<i>Anti-HIV Peptides and Methods of Use Thereof</i>	<ul style="list-style-type: none"> • Guangshun (Gus) Wang, PhD
2008*	<i>Sex Hormone Binding Globulin: New Target for Cancer Therapy</i>	<ul style="list-style-type: none"> • Janina Baranowska-Kortylewicz, PhD

*In 2008 the Most Promising New Invention award was shared.

INNOVATION WEEK HISTORY: AWARDEES

Special Awards

2022	Bin Duan, PhD	Emerging Inventor
2022	Exavir Therapeutics	Startup of the Year
2021	Hanjun Wang, MD	Innovator of the Year
2021	Ensign Pharmaceutical	Startup of the Year
2020	COVID-19 Inventors	Innovators of the Year
2020	BreezMed	UNeTech Startup of the Year
2019	Benson Edagwa, PhD	Emerging Inventor
2019	FutureAssure.	UNeTech Startup of the Year
2018	Biomechanics Dept., UNO	Innovator of the Year
2018	Centese, Inc.	UNeTech Startup of the Year
2017	Donny Suh, MD	Emerging Inventor
2016	Irving Zucker, PhD	Innovator of the Year
2015	Tammy Kielian, PhD	Innovator of the Year
2014	Marius Florescu, MD	Emerging Inventor
2013	Howard Gendelman, MD	Innovator of the Year
2012	Tammy Kielian, PhD	Emerging Inventor
2011	Jonathan Vennerstrom, PhD	Lifetime Achievement
2010	Amarnath Natarajan, PhD	Emerging Inventor
2009	Rodney Markin, MD, PhD	Lifetime Achievement
2008	Dong Wang, PhD	Emerging Inventor
2007	Robert LeVeen, MD	Lifetime Achievement





NEW INVENTION NOTIFICATION CONTRIBUTORS

Mustafa Alfatlawi	Santhi Gorantla*
Carlos Alvarez	Terri Gulick
Cody Anderson	Rebekah Gundry*
Aaron Barksdale	Matthew Halanski*
Christopher Barrett	Tyler Hamer
Surinder Batra	Stephen Hug
Elizabeth Beam	Javeed Iqbal
Mark Beatty	Farhana Islam
Gregory Bennett	Ridwan Islam
Linda Berg Luecke	Melodi Javid Whitley
Jordan Borrell	James Jenkins
David Brett-Major	Jason Johanning
Mara Jana Broadhurst	Sravan Jonnalagadda
Liliana Bronner	Arun Karumatta Manattu
Nicole Buchholz	Meghana Kashyap*
Johanna Bustamante-Salgado	Bhavesh Kevadiya*
Siddappa Byrareddy	Deepak Khazanchi
Abraham Campos*	Tammy Kielian
Mark Carlson	So-Youn Kim
Chase Castro	Brian Knarr*
Bhavana Chhunchha	Zeljka Korade
Jason Christensen	Lee Korshoj
Jacob Cohen	Anupam Kotwal
Justin Cramer	Kayla Kowalczyk
Kaustubh Datta	Sushil Kumar
Therlking Dervil	Mitchell Kuss
John Dickinson	Robert Lobato
Austin Doctor	Bethany Lowndes
Bin Duan*	Yaman Lu
Samikshan Dutta	Quan Ly*
Benson Edagwa*	Jatinkumar Machhi*
Landon Ehlers	Krishnaiah Maddeboina*
Michelle Ellermeier	Philippe Malcolm*
Joel Elson*	Milica Markovic
Farahnaz Fallahtafti*	Tess McKinney*
Megan Frazee	Shaheed Merani
Koelina Ganguly	Mane Polite Mesidor
Andrew Gard	Arash Mohammadzadeh
William Kirk Gasper	Gonabadi
Howard Gendelman*	Elizabeth Mollard
Dario Gherisi*	R. Lee Mosley*
Stephen Gliske	Mai Mostafa*
Maurice Godfrey	Sara Myers *

*Multiple

NEW INVENTION NOTIFICATION CONTRIBUTORS

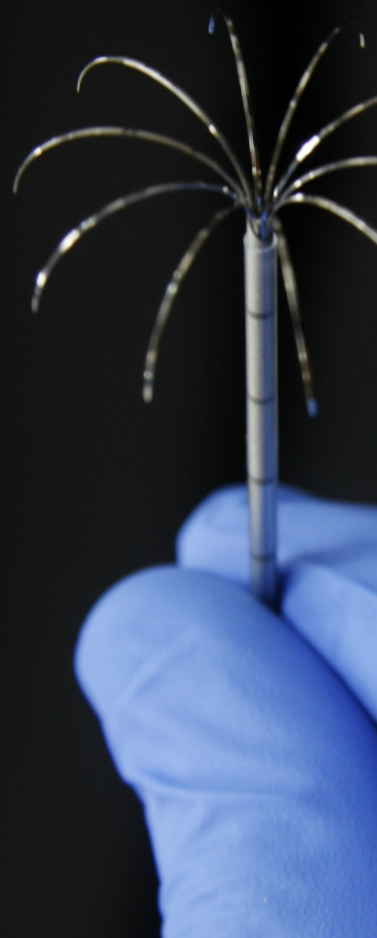
Amarnath Natarajan*
Mohammad Ullah Nayan
Thang Nguyen*
Janet Nieveen
Katherine Olson
Song-young Park
Milankumar Patel*
Sachin Pawaskar
Meghan Prusia
Prakash Radhakrishnan
St Patrick Reid
Pukhraj Rishi
Donald Ronning
Adam Rosen
Michael Rosenthal*
Maamoon Saleh
Joshua Santarpia
Andrew Schnaubelt
Sue Schuelke*
Austin Seamann
Farah Shahjin*
S M Shatil Shahriar
Wen Shi*
Bobby Simetich
Dhirendra Singh
Ka-Chun Siu

Erika Smith
Rakesh Srivastava
Evan Sueper
Daniel Surdell
William Thorell
Paul Trippier*
Marian Urban
Daniel Villageliu
Michael Wadman*
James Wahl
Guangshun Wang*
Hanjun Wang
Elizabeth Wellsandt
Michael Wellsandt
Sam Wilkins
Ashley Wysong
Jingwei Xie*
Pravin Yeapuri
Aaron Yoder
Seok-Yeong Yu
Yangsheng Yu
Wesley Zeger*
Rui Zhao
Irving Zucker
Jorge Zuniga
Rosie Zweiback

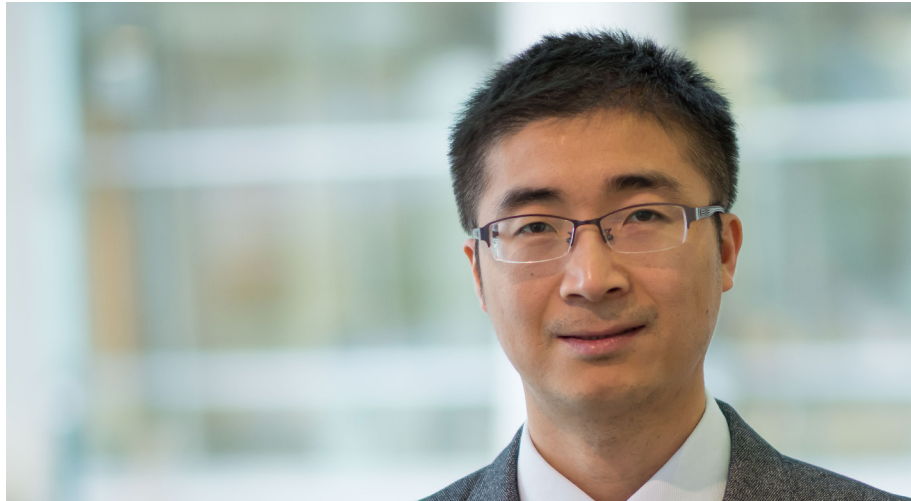
CREATORS OF LICENSED TECHNOLOGY

Nicole Buchholz
Russell Buffum
Paul Davis
Matthew Hale
Tony Hollingsworth
Alexey Kamenskiy
Brian Knarr
Jason MacTaggart
Tess McKinney

Elizabeth Mollard
Thang Nguyen
Janet Nieveen
Molly Schieber
Sue Schuelke
Travis Vanderheyden
Michael Wadman
Wesley Zeger
Rosie Zweiback



EMERGING INVENTOR



Bin Duan, PhD

Associate Professor, Mary & Dick Holland Regenerative Medicine Program, Division of Cardiology, Department of Internal Medicine, University of Nebraska Medical Center

Bin Duan, PhD, is our 2022 Emerging Inventor of the year, in recognition of his inventions in biomaterials and tissue engineering.

Dr. Duan has been an inventor on 13 new inventions submitted over the last five years, including two in the fiscal year ending in 2022. Dr. Duan is an inventor on six pending provisional and non-provisional patent applications.

His work focuses on novel biomaterials and biofabrication techniques—including 3D bioprinting—to enhance the body's own regenerative processes and promote various types of tissue repair and regeneration. He has developed numerous hydrogels and tissue-engineered scaffolds for various clinical applications including bacterial biofilm prevention, localized drug delivery, muscle and nerve regeneration, and postoperative abdominal adhesion prevention.

Dr. Duan's work with UNeMed's 2015 Innovator of the Year, Tammy Kielian, on a 3D printing antibiotic craniotomy scaffold has garnered interest from more than a dozen companies, and is currently patent-pending in the U.S. and Europe.

Dr. Duan's two inventions from 2022 are a novel, 3D-printable bio-ink with research and clinical applications. The other is a 3D-printable, refillable hydrogel drug depot for localized, sustained delivery of therapeutic agents.

Dr. Duan earned his PhD at the University of Hong Kong, and performed his post-doctoral training at Cornell University's Department of Biomedical Engineering. He joined the University of Nebraska Medical Center in November of 2015.

MOST PROMISING NEW INVENTION



Cody Anderson

Graduate Assistant, School of Health & Kinesiology, University of Nebraska at Omaha



Song-young Park, PhD

Associate Professor, School of Health & Kinesiology, University of Nebraska at Omaha

System for Measuring Blood Pressure in Wearable Electronic Devices

Doctoral research assistant Cody Anderson and his graduate mentor, Dr. Song-young Park, aim to revolutionize how people track their heart health with the first known wearable device that accurately and consistently measures a user's blood pressure.

The innovative approach measures the speed of a user's pulse wave, which spreads throughout the body with every heartbeat. Pulse wave velocity is a proven measure for finding blood pressure and blood vessel stiffness, important biomarkers for determining and predicting cardiovascular health.

Several wearable devices on the market today claim to measure blood pressure and produce readings about pulse wave velocity, but those measures are often inaccurate and generally regarded as wholly unreliable.

Anderson and Dr. Park, vascular physiologists at the University of Nebraska at Omaha, overcame those reliability issues for modern smart watches.

Their technology empowers individuals with minimal training to acquire high-quality measurements resistant to low-quality signal acquisition.

The innovation produces an accurate and reliable way for people to track their blood pressure, in real-time, without the need for specialized equipment or training. Smart watch technology makes tracking practical for public use, far beyond the limits of biomedical research laboratories and clinical settings.

That this achievement could allow people to monitor and control their cardiovascular health virtually anywhere—while also helping reduce cardiovascular disease and associated costs—makes this technology UNeMed's Most Promising New Invention of 2022.



STARTUP OF THE YEAR



Howard E. Gendelman, MD
*Professor & Chairman, Department
of Pharmacology & Experimental
Neuroscience*



Benson Edagwa, PhD
*Associate Professor, Department
of Pharmacology & Experimental
Neuroscience*

Exavir Therapeutics

In 2021 UNMC researchers Howard E. Gendelman, MD, and Benson Edagwa, PhD, with Alborz Yazdi, co-founded Exavir Therapeutics to develop novel therapies for the treatment, prevention, and elimination of HIV and other viral infections.

Exavir Therapeutics is currently developing ultra-long-acting (ULA) antiretroviral nanomedicines. These nanomedicines enable long-acting slow effective release of antiretroviral therapy over time, potentially allowing for once-every-six-months-and-longer dosing.

Exavir Therapeutics is also developing CRISPR-Cas9-based therapies as a potential cure for HIV infections.

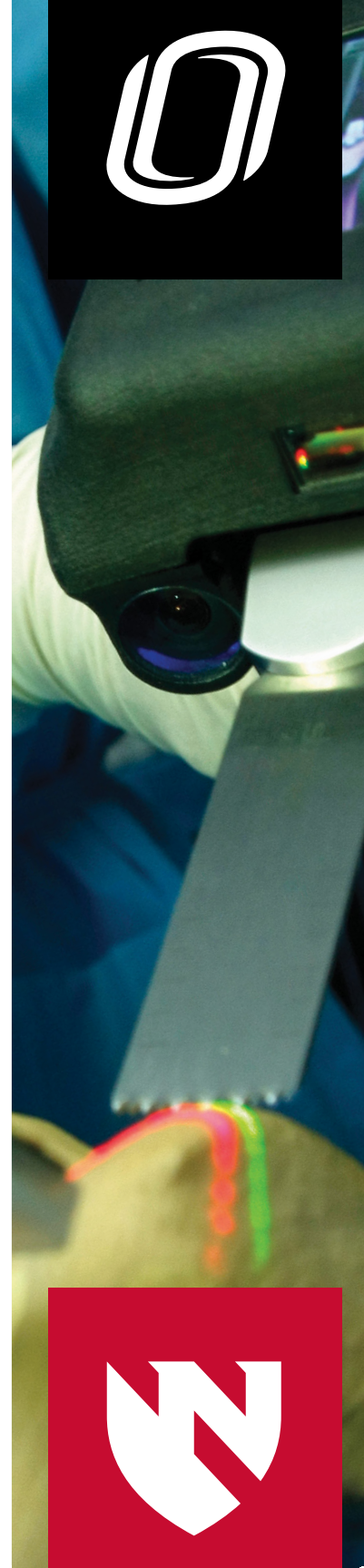
In May of 2022, Exavir Therapeutics successfully closed on a \$4 million seed financing round led by AlleyCorp with participation from Gilead Sciences. This funding will help advance Exavir's lead formulation toward an Investigational New Drug (IND) submission and initiation of a clinical trial.

Exavir's current lead formulations are ULA formulations of integrase inhibitors that include dolutegravir and bictegravir. Exavir is currently completing IND enabling studies for these formulations.

Exavir has assembled a highly experienced team to lead the company. The team includes Alborz Yazdi, President of Exavir and former investor at Bain Capital and Millennium; Janet Gunzner-Toste, PhD MBA, Chief Operating Officer of Exavir and former VP of Program Management at BridgeBio; and Mark Cockett, PhD, Chief Scientific Advisor of Exavir and former VP and Head of Discovery at ViiV Healthcare.

TECHNOLOGIES LICENSED

Anti-phishing resiliency training software	<ul style="list-style-type: none">Matthew Hale
Aquablade	<ul style="list-style-type: none">Alexey KamenskiyJason MacTaggart
Enhanced KIPS Videos and Materials	<ul style="list-style-type: none">Nicole BuchholzRosie Zweiback
EP67 for COVID	<ul style="list-style-type: none">Paul Davis
Microwash	<ul style="list-style-type: none">Thang NguyenMichael WadmanWesley Zeger
Panc02-MUC1 cells	<ul style="list-style-type: none">Tony Hollingsworth
Self-pacing treadmill	<ul style="list-style-type: none">Russell BuffumBrian KnarrMolly SchieberTravis Vanderheyden
VR Sepsis Escape Room	<ul style="list-style-type: none">Tess McKinneyElizabeth MollardJanet NieveenSue Schuelke



INVENTORS WITH ISSUED PATENTS

Mark Carlson
Ioannis Chatzizisis
Benson Edagwa*
Shane Farritor*
Marius Florescu
Howard Gendelman*
Hani Haider
Corey Hopkins*
Alexey Kamenskiy
Jason MacTaggart
Nicholas Markin
R. Lee Mosley
Amarnath Natarajan
Carl Nelson

Peter Pellegrino
Mark Reichenbach
Stephen Salzbrenner
Tyler Scherr
Molly Schieber
Alicia Schiller
Ka-Chun Siu
Yutaka Tsutano
Jonathan Vennerstrom
Hanjun Wang
Jingwei Xie
Mohsen Zahiri
Irving Zucker
Thomas McDonald

*Multiple



PATENTS ISSUED

1. “Robotic Surgical Devices, Systems, and Related Methods”

U.S. Patent No. 11,051,895 — issued July 6, 2021

- Shane Farritor
- Jason Dumpert
- Yutaka Tsutano
- Erik Mumm
- Philip Chu
- Nishant Kumar

2. “Methods, Systems, and Devices Relating to Surgical End Effectors”

U.S. Patent No. 11,065,050 — issued July 20, 2021

- Shane Farritor
- Tom Frederick
- Joe Bartels

3. “Dimers of Covalent NFkB Inhibitors”

U.S. Patent No. 11,104,684 — issued August 31, 2021

- Amarnath Natarajan
- Sandeep Rana

4. “Surgical Devices and Methods”

U.S. Patent No. 11,116,537 — issued September 14, 2021

- Jason MacTaggart
- Alexey Kamenskiy
- Paul Deegan

5. “Method and Apparatus for Computer Aided Surgery”

U.S. Patent No. 11,116,574 — issued September 14, 2021

- Hani Haider
- O. Andres Barrera

6. “Compositions and Methods for the Delivery of Therapeutics”

U.S. Patent No. 11,117,904 — issued September 14, 2021

- Howard Gendelman
- Benson Edagwa
- Brian Johns

7. “Antiviral Prodrugs and Nanoformulations Thereof”

U.S. Patent No. 11,154,557 — issued October 26, 2021

- Howard Gendelman
- Benson Edagwa

8. “Platform Device and Method of Use to Assist in Anastomosis Formation”

U.S. Patent No. 11,160,555 — issued November 2, 2021

- Marius Florescu

9. “Antiviral Prodrugs and Nanoformulations Thereof”

U.S. Patent No. 11,166,957 — issued November 9, 2021

- Howard Gendelman
- Benson Edagwa

10. “Precision Syringe”

U.S. Patent No. 11,167,091 — issued November 9, 2021

- Tyler Scherr
- R. Gabe Linke
- Donny Suh

PATENTS ISSUED

11. “Quick-Release End Effector Tool Interface”

U.S. Patent No. 11,173,617 — issued November 16, 2021

- Shane Farritor
- Tom Frederick

12. “Phosphodiesterase Inhibitors”

U.S. Patent No. 11,180,499 — issued November 23, 2021

- Corey Hopkins

13. “User-Paced Exercise Equipment”

U.S. Patent No. 11,185,740 — issued November 30, 2021

- Casey Wiens
- Molly Schieber
- William Denton

14. “Method for Diagnosing and Treating Parkinson’s Disease Via Measurement of Effector Memory T-Cells”

U.S. Patent No. 11,209,426 — issued December 28, 2021

- Howard Gendelman
- Jessica Saunders
- R. Lee Mosley

15. “Ozonides for Treating or Preventing Virus Infections”

U.S. Patent No. 11,246,854 — issued February 15, 2022

- Jonathan Vennerstrom
- Ravit Boger

16. “Transesophageal Echocardiography Simulator”

U.S. Patent No. 11,257,397 — issued February 22, 2022

- Nicholas Markin

17. “Modified Pigment Epithelium-Derived Factor (PEDF) Peptides and Uses Thereof For Treating Neovascular Diseases, Inflammatory Diseases, Cancer, and for Cytoprotection”

U.S. Patent No. 11,261,237 — issued March 1, 2022

- Jack Henkin
- Olga Volpert
- Ignacio Melgar-Asensio
- Serguei Vinogradov

18. “Methods and Compositions for Selective Generation of Dopaminergic Precursors”

U.S. Patent No. 11,261,461 — issued March 1, 2022

- Changhai Tian
- Jialin Zheng

19. “Compositions and Methods for the Delivery of Therapeutics”

U.S. Patent No. 11,311,545 — issued April 26, 2022

- Howard Gendelman
- Xinming Liu
- Benson Edagwa



PATENTS ISSUED

20. "Antiviral Prodrugs and Nanoformulations Thereof"

U.S. Patent No. 11,311,547 — issued April 26, 2022

- Howard Gendelman
- Benson Edagwa

21. "Time-Varying Quantification of Capacitive and Resistive Arterial Blood Flow"

U.S. Patent No. 11,317,889 — issued May 3, 2022

- Irving Zucker
- Ioannis Chatzizisis
- Hanjun Wang
- Alicia Schiller
- Peter Pellegrino

22. "Nanofiber Structures and Methods of Use Thereof"

U.S. Patent No. 11,318,224 — issued May 3, 2022

- Jingwei Xie
- Shixuan Chen
- Mark Carlson

23. "Healthcare Provider Interface for Treatment Option and Authorization"

U.S. Patent No. 11,322,237 — issued May 3, 2022

- Stephen Salzbrenner

24. "Antimicrobial Compositions Containing a Synergistic Combination of Activated Creatinine and an Imidazole Antifungal Agent"

U.S. Patent No. 11,351,153 — issued June 7, 2022

- Thomas McDonald
- Steven Tracy

25. "Gross Positioning Device and Related Systems and Methods"

U.S. Patent No. 11,357,595 — issued June 14, 2022

- Shane Farritor
- Mark Reichenbach

26. "Portable Camera Aided Simulator (PORTCAS) For Minimally Invasive Surgical Training"

U.S. Patent No. 11,361,678 — issued June 14, 2022

- Ka-Chun Siu
- Carl Nelson
- Mohsen Zahiri
- Dmitry Oleynikov

27. "Laparoscopic Devices and Methods of Using"

U.S. Patent No. 11,369,397 — issued June 28, 2022

- Jakeb Riggie
- Jake Kaufman
- Adam De Laveaga
- M. Susan Hallbeck

28. "TRPC5 Inhibitors and Methods of Using Same"

U.S. Patent No. 11,370,769 — issued June 28, 2022

- Corey Hopkins
- Anna Greka

INNOVATION

2022

AWARDS

INVENTION MILESTONES

The following lists denote the total number of new invention notifications individual inventors have submitted to UNeMed over the years. Inventors with four or less inventions are not listed.

60-64 Inventions

Howard Gendelman	63
Thang Nguyen	62

50-54 Inventions

Michael Wadman	53
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40-44 Inventions

Ben Boedeker	41
--------------------	----

35-39 Inventions

Surinder Batra	37
Sam Sanderson	36

30-34 Inventions

Hani Haider	31
Dong Wang	31

25-29 Inventions

Thomas McDonald	27
Jingwei Xie	27

20-24 Inventions

Mark Carlson	24
Guangshun Wang	24
Steven Hinrichs	22
Jason Johanning	21
Janina Baranowska-Kortylewicz	20

15-19 Inventions

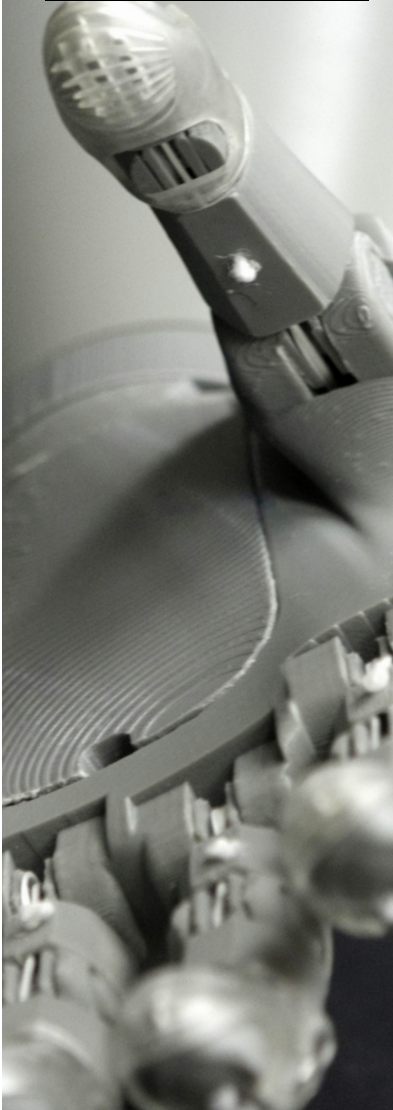
Amarnath Natarajan	19
Dmitry Oleynikov	19
Brian Knarr	18
Nicholas Stergiou	17
Benson Edagwa	16
Jason MacTaggart	16
Thomas Porter	16
Travis Vanderheyden	16
Wesley Zeger	16
Jonathan Vennerstrom	15

10-14 Inventions

Stephen Rennard, 14; Irving Zucker, 14; Jorge Zuniga, 14; R. Lee Mosley, 13; Geoffrey Thiele, 13; Hanjun Wang, 13; Gregory Bennett, 12; Tammy Kiellian, 12; Bin Duan, 11; Michael (Tony) Hollingsworth, 11; Nicholas Markin, 11; Abraham Campos, 10; Steven Carson, 10; Nora Chapman, 10; Christine Cutucache, 10; Alexey Kamenskiy, 10; Babu Padanilam, 10; Ka-Chun Siu, 10; Myron Toews, 10.

5-9 Inventions

Ercole Cavalieri, 9; Marius Florescu, 9; Channabasavaiah Gurumurthy, 9; Nicholas Heimann, 9; Corey Hopkins, 9; John Jackson, 9; Steven Lisco, 9; Iraklis Pipinos, 9; Richard Reinhardt, 9; Russell Buffum, 8; Ioannis Chatzizisis, 8; Deepta Ghate, 8; Timothy Greiner, 8; Matthew Halanski, 8; James Hammel, 8; Kathleen Healey, 8; Zhenshan Jia, 8; Bhavesh Kevadiya, 8; Marilyn Larson, 8; Rongshi Li, 8; Aaron Mohs, 8; Sara Myers, 8; Prabakaran Narayanamy, 8; Eleanor Rogan, 8; Byers Shaw Jr., 8; James Talmadge, 8; Jialin Zheng, 8; Iqbal Ahmad, 7; Walker Arce, 7; Hamid Band, 7; Kenneth Bayles, 7; Liliana Bronner, 7; Jesse Cox, 7; Michael Duryee, 7; Maurice Godfrey, 7; Maneesh Jain, 7; Maximillian Kurz, 7; Larisa Poluektova, 7; Daniel Anderson, 6; Vimla Band, 6; Bernard Baxter, 6; Mara Jana Broadhurst, 6; Siddappa Byrareddy, 6; Santhi Gorantla, 6; Rebekah Gundry, 6; Sachin Kedar, 6; Jatinkumar Machhi, 6; Rodney Markin, 6; Gregory Oakley, 6; Amar Singh, 6; Rakesh Srivastava, 6; James Wahl, 6; Feng Xie, 6; Jennifer Bredehoft, 6; Keely Buesing, 6; W. Scott Campbell, 6; Punita Dhawan, 6; Neal Grandgenett, 6; Shantaram Joshi, 6; Peter Kador, 6; David Oupicky, 6; William Tapprich, 6; Joseph Vetro, 6; Elizabeth Beam, 5; James Campbell, 5; George Casale, 5; Prithviraj Dasgupta, 5; Joel Elson, 5; Kai Fu, 5; James Gehringer, 5; Gregory Gordon, 5; Javeed Iqbal, 5; Peter Iwen, 5; Deepak Khazanchi, 5; Lynell Klassen, 5; Yuri Lyubchenko, 5; Sheryl Paskevic, 5; Milankumar Patel, 5; Wen Shi, 5; Pankaj Singh, 5; Marcus Snow, 5; Paul Trippier, 5.



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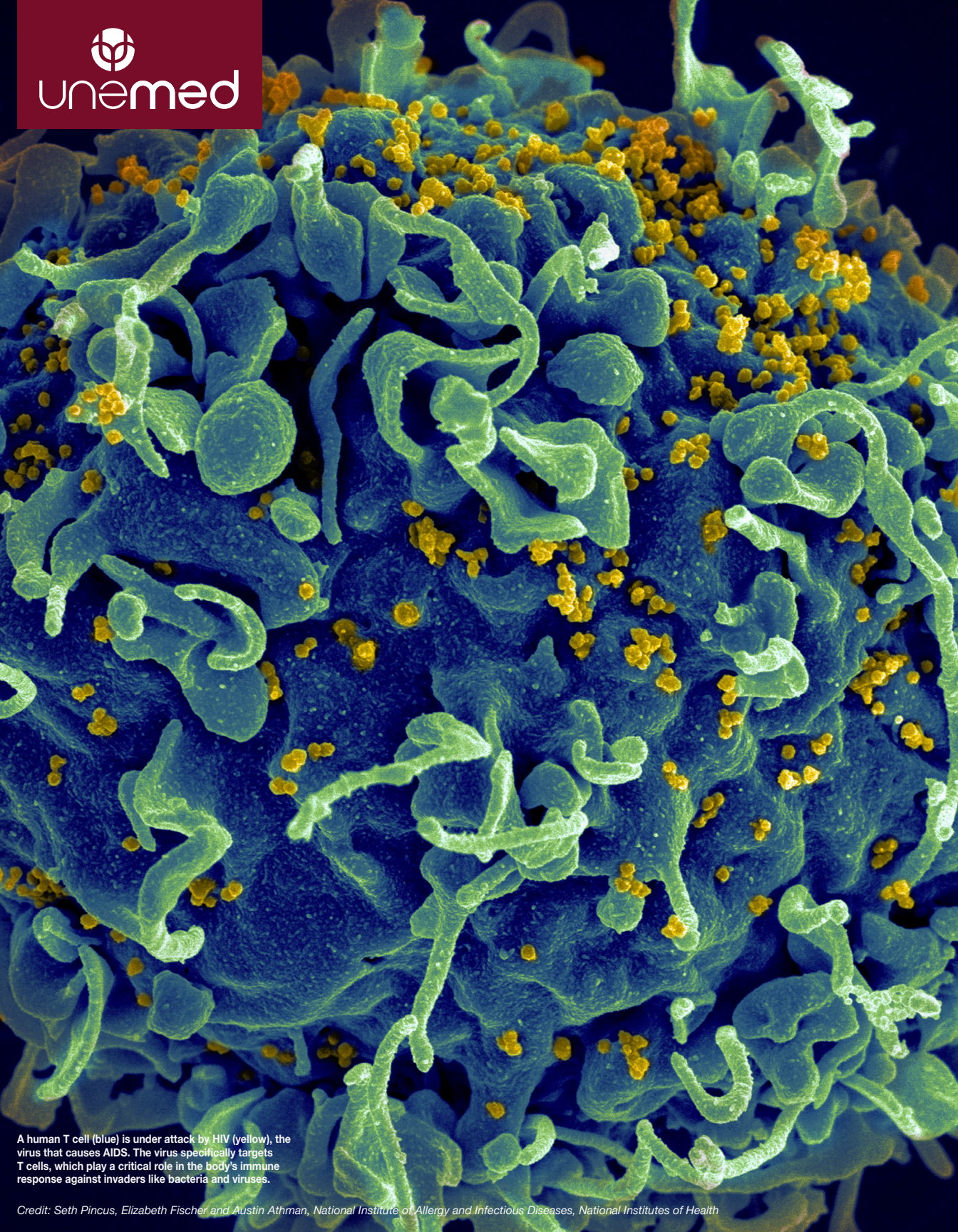
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A human T cell (blue) is under attack by HIV (yellow), the virus that causes AIDS. The virus specifically targets T cells, which play a critical role in the body's immune response against invaders like bacteria and viruses.

Credit: Seth Pincus, Elizabeth Fischer and Austin Athman, National Institute of Allergy and Infectious Diseases, National Institutes of Health