

Startup Award

Alex Lewis

Electro-Active Technologies

Licensed Technologies

Olga Ovchinnikova

Thermal Desorption Probe Coupled with a Mass Spectrometer

Andy Sarles & Graham Taylor

Novel Methods for Measuring Parameters of Cell Membranes

Ky Pohler

PAG Genes as Markers of Bull Fertility

Peter Tsai

Methods of Preparing Dielectric Non-Woven Materials for Enhanced Air Filtration Efficiencies

Tessa Calhoun &

Brianna Watson

System, Method, and Programs for Vibrational Sound Frequency Generation Spectroscopy

Matthew Mench

Tamper Evident Lock Box (TEL BOX)

Kelsey McConachie, Isaac Nolan,

Thao Strong, & Ryan Tinker

Swim Resistance System

Alycia Chapman, Richard Gerhold, & Chunlei Su

Toxoplasma Gondii Antigen, Toxoplasma Gondii Test Kit

Jennifer Richards & James Swart

Building Bridges a 4H Curriculum

Andy Pulte

Hardy Hibiscus Variety

Carmen Lozzio

K562 Cell Lines

Gary Bates & David McIntosh

Orchardgrass Variety

Natalie Bumgarner, Alexis Hall, Jennifer Richards, Daniel Sarver, Carrie Stephens, James Swart, & Catherine Virden

Hydroponic Curriculum for High School 4H Clubs

2020 Maturation Grants

Deidra J.H. Mountain

Preclinical Validation of Liposome Delivery System Developed for Gene Therapeutics

Xueping Li, Tami Wyatt, Susan Hébert, & Sheila Taylor

SaaS Provisioning of the Simulated Electronic Fetal Monitoring (SEFM) App

Lisa Merritt & Xueping Li

A Pilot Study for the eVisit Simulation App

Jillian McCarthy Maeder & Michael Berry

Vocabulary Coordinator (VocaCoord): A Speech to Text Solution to Accessing Academic Vocabulary

Patti M. Johnstone, Kelly R. Yeager, Emily Noss, & Molly Erickson

Pediatric Auditory Recognition Test (PART)



2019 INNOVATION Awards

DECEMBER 4, 2019

University of Tennessee
Student Union

11:00 AM - 1:00 PM

Where Discovery and Opportunity Connect

2019 INNOVATION Awards

The University of Tennessee Research Foundation is proud to recognize UT researchers whose innovations better society.

Welcome/Lunch..... **Maha Krishnamurthy**
UTRF Vice President

Opening Remarks..... **Stacey S. Patterson**
UTRF President

Award Presentations..... **UTRF Licensing Team**

Wheeley Innovator Hall of Fame Award

Issued Patents

Startup Award

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Closing Remarks..... **Maha Krishnamurthy**
UTRF Vice President



Wheeley Innovator HALL OF FAME AWARD

Mr. Otto Wheeley (Knoxville '43, chemical engineering) was known for his passion for commercialization and entrepreneurship, as well as his involvement with many East Tennessee businesses. In his honor, the Wheeley Innovator Hall of Fame Award is presented to an individual who has consistently displayed dedication and enthusiasm toward commercialization and innovation throughout their research career.



A special thank you to the Wheeley family, whose generous contribution supports the recognition of researchers who take an active role in the commercialization process.

Issued Patents

10,221,355	Charles Melcher, Luis Stand, & Mariya Zhuravleva Ternary Metal Halide Scintillators
10,202,478	Nam-Goo Kang & Jimmy Mays Multigraft Copolymer Superelastomers by Emulsion Polymerization
10,024,897	Wei Gao, Yilu Liu, Haoyang Lu, Wenxuan Yao, & Lingwei Zhan Mobile Electric Field Sensor Based Phasor Measurement Unit for Monitoring an Electric Power Grid
10,019,470	Doug Birdwell, Mark Dean, & Catherine Schuman Method and Apparatus for Constructing, Using and Reusing Components and Structures of an Artificial Neural Network
10,095,718	Method and Apparatus for Constructing a Dynamic Adaptive Neural Network Array (DANNA)
10,248,675	Method and Apparatus for Providing Real-Time Monitoring of an Artificial Neural Network
10,055,434	Doug Birdwell & Catherine Schuman Method and Apparatus for Providing Random Selection and Long-Term Potentiation and Depression in an Artificial Network
10,046,050 10,213,506	James Foster, Stephen Kennel, & Jonathan Wall Targeting Immunotherapy for Amyloidosis
10,191,094	Yilu Liu, Wenxuan Yao, & Jiecheng Zhao Synchrophasor Measurement Method for Power Systems
10,100,232	Siqun Wang & Cheng Xing Wood Adhesives Containing Reinforced Additives for Structural Engineering Products
10,308,685	Stephen Kennel, Timothy Sparer, & Jonathan Wall Inhibitory Peptides of Viral Infection
10,255,684	Dustin Osborne Motion Correction for PET Medical Imaging Based on Tracking of Annihilation Photons
10,106,807	Hao-Bo Guo Transcription Factor which Regulates Flavonoid, Phenylpropanoid, Tyrosine, and Tryptophan Pathways
10,145,063	Joseph Bozell, David Harper, Omid Hosseinaei, Nicole Labbé, & Timothy Rials Comprehensive Process for Selectively Separating Lignocellulosic Biomass into Purified Components with High Yield
10,177,647	Daniel Costinett, Leon Tolbert, Fei Wang, Jingxin Wang, Fei Yang, & Sheng Zheng DC Current Controller for Continuously Variable Series Reactor
10,160,645	Alexander Tselev Microwave AC Conductivity of Domain Walls
D826,874 D826,875	Chad Duty, Matthew Mench, & Matthew Young Tampering Detection Clamping Box for Ingress/Egress Lines