Office of Technology Commercialization

Patent Palooza

Recognizing the FY17 Accomplishments of University of Kentucky Inventors
March 27, 2018 • Hilary J. Boone Center

Welcome ..... Ian McClure, Director, OTC

Remarks ..... President Eli Capilouto

Inventor Recognition and Awards Presentation ..... Ian McClure, Director, OTC

PATENTS

9,387,190 Michael Joseph Jay
Sustained release of topical anesthetics

9,388,513 Douglas Robert Strachan and David Patrick Hunley
Crystallographically-oriented carbon nanotubes grown on few-layer graphene films

9,390,828 Douglas Robert Strachan and David Patrick Hunley
Crystallographically-oriented carbon nanotubes grown on few-layer graphene films

9,402,875 Luke H. Bradley, Don Marshall Gash and Greg A. Gerhardt
Amidated dopamine neuron stimulating peptide restoration of mitochondrial activity

9,409,120 Kunlei Liu, Reynolds A. Frimpong and Kun Liu
Hybrid process using a membrane to enrich flue gas CO_2 with a solvent-based post-combustion CO_2 capture system

9,409,125 Joseph E. Remias, Cameron A. Lippert and Kunlei Liu
Method of increasing mass transfer rate of acid gas scrubbing solvents

9,410,133 Matthew Gentry and Craig Vander Kooi
Glucan phosphatase variants for starch phosphorylation

9,413,025 Stephen M. Lipka and Christopher R. Swartz
Hybrid flow battery and Mn/Mn electrolyte system

9,415,092 Chang-Guo Zhan, Fang Zheng and Wenchao Yang
High activity mutants of butyrylcholinesterase for cocaine hydrolysis

9,428,705 Darrell Taulbee and Robert Hodgen
Enhancement of binding characteristics for production of an agglomerated product

9,433,638 David Puleo, Thomas Dziubla and Theodora Asafo-Adjei
Polymeric prodrug

9,440,858 Stephen M. Lipka and Christopher R. Swartz
Carbon particles

9,447,112 Peter A. Crooks, Craig T. Jordan and Xiaochen Wei
Use of parthenolide derivatives as antileukemic and cytotoxic agents

9,447,135 Jurgen T. Rohr, Daniel Scott, Markos Leggas, Jhong-Min Chen and Oleg V. Tsodikov
Semi-synthetic mithramycin derivatives with anti-cancer activity

9,453,226 Jayakrishna Ambati and Valeria Tarallo
Protection of cells from Alu-RNA-induced degeneration and inhibitors for protecting cells

9,464,289 Jayakrishna Ambati
Methods of inhibiting Alu RNA and therapeutic uses thereof

9,464,322 Philip W. Landfield, John Christopher Gant, Eric M. Blalock, Kuey-Chu Chen, Olivier Thibault and Nada Porter
Methods for diagnosing and treating Alzheimer's disease (AD) using the molecules that stabilize intracellular calcium (Ca^{2+}) release

9,468,203 Catherine Loudon, Robert Corn, Megan Szyndler, Kenneth Haynes and Michael F. Potter
Microfabricated surfaces for the physical capture of insects

9,468,557 Dongfang Wang and Joseph B. Zwischenberger
Compact heat exchanger for veno-venous perfusion-induced systemic hyperthermia systems

9,468,883 Joseph E. Remias, Cameron A. Lippert and Kunlei Liu
Solvent and method for removal of an acid gas from a fluid stream

9,482,675 Mark A. Lovell, Bert C. Lynn and Melissa A. Bradley-Whitman
Methods and systems for prognosis and diagnosis of brain damage

9,487,762 Joseph Chappell, Thomas D. Niehaus, Shigeru Okada, Timothy P. Devarenne and David S. Watt
Method and system for producing triterpenes

9,493,439 Kyung Bo Kim, Vinod Kasam, Wooin Lee, Dong-Eun Kim, Zach Miller, Chang-Guo Zhan and Do-Min Lee
Proteasome inhibitors

9,499,518 Joseph R. Holtman, Peter A. Crooks, Linda P. Dwoskin, J. Michael McIntosh and Elzbieta Pogonowska Wala
Bis-quaternary ammonium salts as pain modulating agents

9,504,957 Kunlei Liu and Joseph E. Remias
Flue gas desulfurization apparatus

9,533,883 Mathew C. Weisenberger and John D. Craddock
Apparatus and method for harvesting carbon nanotube arrays

9,534,237 Joseph Chappell and Bryan Greenhagen
Sesquiterpene synthase gene and protein

9,540,327 Peter A. Crooks, Linda P. Dwoskin, Guangrong Zheng and Sangeetha Sumithran
Bis-quaternary ammonium salts and methods for modulating neuronal nicotinic acetylcholine receptors

9,550,753 Peter A. Crooks, Linda P. Dwoskin, Guangrong Zheng, Sangeetha Sumithran and Zhenfa Zhang
Mono quaternary ammonium salts and methods for modulating neuronal nicotinic acetylcholine receptors

9,566,341 Audra Stinchcomb, Kyung Bo Kim, Ragotham Reddy Pinninti, Priyanka Ghosh and Kalpana S. Paudel
Compounds including Cox inhibitor moiety and enhanced delivery of active drugs using same

9,567,585 Stefan Stamm, Manli Shen and Serene Josiah
Antisense oligonucleotide modulators of serotonin receptor 2C and uses thereof

9,586,946 Chang-Guo Zhan, Kyung Bo Kim, Vinod Kasam and Na-Re Lee
Selective immunoproteasome inhibitors with non-peptide scaffolds

9,586,992 Luke H. Bradley, Don Marshall Gash and Greg A. Gerhardt
Amidated dopamine neuron stimulating peptides for CNS dopaminergic upregulation

9,642,845 Elaine L. Jacobson, Myron K. Jacobson, Russell Coyle, Hyuntae Kim and Donna L. Coyle
Method for alleviating side effects of retinoic acid therapy and/or improving efficacy without interfering with efficacy

9,642,908 George P. Allen
Equine disease model for herpesvirus neurologic disease and uses thereof

9,647,094 Zhi David Chen
Method of manufacturing a semiconductor heteroepitaxy structure

9,649,301 Peter A. Crooks, Linda P. Dwoskin, Guangrong Zheng, Sangeetha Sumithran, David Allen, Zhenfa Zhang and Paul Lockman
Bis-quaternary ammonium cyclophane compounds that interact with neuronal nicotinic acetylcholine receptors

9,670,066 Stephen M. Lipka and Christopher R. Swartz
Carbon particles

9,675,928 Joseph E. Remias, Payal Chandan and Kunlei Liu
Method of inhibiting nitrosation of an aqueous amine solution used in a process of removing carbon dioxide from a flue gas

9,678,583 Fuhua Cheng
2D and 3D pointing device based on a passive lights detection operation method using one camera

Licenses and Options

Jayakrishna Ambati
Effective Therapeutics Inc.

John Anthony
Tokyo Chemical Industry Co. Ltd.

Luke H. Bradley, Don Gash and Greg Gerhardt
Avast Therapeutics, LLC (2 options)

Thomas Chambers
Laboratorios HIPRA, S.A.

Mark Crocker
MEL Chemicals, Inc.

Steven Estus
Palleon Pharma Inc.

Todor Petrov and Andrzej Wala
Flow Max, LLC

John S. Thompson and Stephen A. Brown
Caprico Biotechnologies, Inc.

John Timoney and Sergey Artiushin
Equine Diagnostic Solutions, LLC

David S. Watt
Epionc, Inc. (2 licenses)

Chang-Guo Zhan
Pioneer Medicine, Inc.

UKAccel

Joseph Chappell and Chase Kempinski
Enepret Inc.

Kate Eddens
Flaming Fox, LLC

Michael J. Wesley, Joshua Lile, Dillon Huffman and Arit M. Harvanko
Largus Neural Systems, LLC

Kenny Harris, Tina Metcalf, Kimberly Northrip and Galen Stone
CEFoundry

SBIR and STTR Awards

Stephen Dobson
MosquitoMate, Inc.

Thomas Dziubla and Zach Hilt
Bluegrass Advanced Materials, LLC

Karyn Esser
Cytoinformatics, Inc.

Xin Gao
PowerTech Water, LLC

Todd Hastings
Brockman-Hastings, LLC

John Littleton
Naprogenix, Inc. (2 awards)

Bert C. Lynn and Mark Lovell
CoPlex Therapeutics, LLC

Milestone Patents

Kunlei Liu 10
Linda P. Dwoskin.....20
Joseph Chappell 30

Global Impact Award

Stephen Dobson, MosquitoMate, Inc.

National Academy of Inventors

Inventor Members

Joseph Chappell
Linda P. Dwoskin
Robert Houtz
Kunlei Lui
Chang-Guo Zhan
Fang Zheng

Honorary Members

Eli Capilouto
Lisa Cassis

Fellow

Yang-Tse Cheng