Dr. Cody Chase Cook
1544 Avilla Vincintage Rd.
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(501) 258-3079
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Employment:

2010-present	MitoGene	Founder, President and Chief Medical Scientist
2013-present	HTWO Beverage Company	Founder, President and Chief Medical Scientist

Education:

2019 Japanese Language 日本語の学生
UofM, University of Memphis (Memphis, TN)

2005-2011 Ph.D., Biochemistry and Molecular Biology (publications listed below)
UAMS, University of Arkansas for Medical Sciences (Little Rock, AR)

2005-2016 M.D. medical student, UAMS
UAMS, University of Arkansas for Medical Sciences (Little Rock, AR)
2005-2009 Medical Student Council
UAMS, University of Arkansas for Medical Sciences (Little Rock, AR)

2001-2005 Valedictorian, Rank #1 undergraduate of 1,235 students, 4.0 GPA, Summa Cum Laude
B.S., Biology, Departmental Honors (publications listed below)
Minor, Honors Interdisciplinary Studies (Philosophy)
Honors College Graduate, Outstanding Honors Thesis (publications listed below)
UCA, University of Central Arkansas (Conway, AR)

2001 Bryant High School, Rank #1 graduate of 390 students, 4.0 GPA (Bryant, AR)

Facilities / Institutions:

2018-present HTWO Beverage Co., Multi-Million Dollar Manufacturing Facility, Founder
Memphis, TN

Governmental Projects/Regulations:

FDA—No. 520 GRAS Notice, Generated Regarded as Safe Notice

Patents / Trademarks / Intellectual Property:

2020-present Pending Patent, Pouch Packaging Technologies
"Spouts or Ports for Containers to Extend Shelf-Life of Packaged Gases and/or Exclude Aberrant Introduction of External Gases into Packages"
2020-present Trade Dress, Pouch Packaging Technologies
2007-present Trademarks—Key Terminology for Hydrogen-Infused Beverages

Grants and Fellowships:

2009-2012 U.S. Army Research & Materiel Command FY08 Prostate Cancer Training Award (DOD)
2009 Graduate Student Research Funds (UAMS)
2009 Graduate Student Research Travel Grant (UAMS)

2006 Partners in Research Fellowship, PIR (UAMS)
2005 Scholars Undergraduate Research Fellowship, SURF (UCA)
2004-2005 Arkansas Science Information Liaison Office (SILO) Undergraduate Research Fellowships
2004 BRIN Fellowship, Arkansas Biomedical Research Infrastructure Network (UAMS)
2003 BRIN Fellowship, Arkansas Biomedical Research Infrastructure Network (UAMS)

Presentations:

2011 DOD Innovative Minds in Prostate Cancer Today (Orlando, FL)
2010 UAMS MD / PhD Research Symposium (Little Rock, AR)
2008 American Associations for Cancer Research Annual Meeting (San Diego, CA)

Thesis/Dissertations:

2013 PhD Dissertation, UAMS
Title: The 're-awakening' of a mitochondrial-generated progression signal in the development of advanced cancer.

2005 UCA Honors College Dissertation
Title: The evolution of the art of fly-tying: How scientific, social, and industrial revolutions of the Victorian age influenced the art of fly tying.

Publications:

- **C.C. Cook**, A. Kim, S. Terao, A. Gotoh, and M. Higuchi (2012) Consumption of oxygen: a mitochondrial-generated progression signal of advanced cancer. Cell Death and Disease, 3, e258
- **C.C. Cook** and M. Higuchi (2012) The awakening of an advanced malignant cancer: an insult to the mitochondrial genome. Biochimica et Biophysica Acta, 1820(5), 652
- A. Naito, **C. Cook**, T. Mizumachi, M. Wang, C. Xie, T. Evans, T. Kelly, and M. Higuchi (2008) Progressive tumor features accompany epithelial-mesenchymal transition induced in mitochondrial DNA depleted cells. Cancer Science, 99(8): 1584
- D.R Pierce, **C.C Cook**, J.A. Hinson, and K.E. Light (2006) Are oxidative mechanisms primary in ethanol induced purkinje neuron death of the neonatal rat? Neuroscience Letters, 400(1-2), 130
- **Cook, C.**, Haley, U.B. and Runge, S.W. Acidification Induced Exocytic Response in MCF-7 Cells and Correlating Apoptosis. Arkansas BRIN Research Conference. Little Rock, AR. July 2005.
- D.R Pierce, **C.C Cook**, J.A. Hinson, and K.E. Light (2004) Are oxidative mechanisms primary in ethanol induced purkinje neuron death of the neonatal rat? Alcoholism: Clinical and Experimental Research, 28(86A)
- H.R. Owens, V. Chen, **C.C. Cook**, D.R. Pierce, and K.E. Light (2004) Comparative ability of NMDA receptor antagonists and ethanol in producing neurodegeneration of rat purkinje neurons during postnatal vulnerable periods. Alcoholism: Clinical and Experimental Research, 28(82A)

<u>Completed Research Support</u>

02/15/09 to 03/14/12
W81XWH-09-1-0175 PCRP-PCTA Cook (PI)
DOD Prostate Cancer Training Award
Mitochondria and Prostate Cancer Progression
Brief Description: The goal of this study was to discover and report cellular signals that progress cancers to deadly and aggressive diseases after depletion of the mitochondrial genome.
Role: Principal Investigator

2009
Graduate Student Research Funds, UAMS
Mitochondria and Prostate Cancer Progression
Brief Description: The goal of this study was to discover and report cellular signals that progress cancers to deadly and aggressive diseases after depletion of the mitochondrial genome.
Role: Graduate Student

2009
Graduate Student Research Travel Grant, UAMS
Mitochondria and Prostate Cancer Progression
Brief Description: The goal of this travel grant was to report my recent experimental studies to the American Association for Cancer Research (AACR) in San Diego, Ca.
Role: Graduate Student

2006
Partners in Research Fellowship (PIR), UAMS
Mitochondria and Prostate Cancer Progression
Brief Description: The goal of this study was to discover and report cellular signals that progress cancers to deadly and aggressive diseases after depletion of the mitochondrial genome.
Role: Graduate Student

2005
Scholars Undergraduate Research Fellowship (SURF), UCA
Sodium-Potassium Pumps and Breast Cancer
Brief Description: The goal of this study was to evaluate if sodium-potassium pumps have a role in cancer (anti-apoptotic) signaling pathways that develop in acidic tumor environments.
Role: Graduate Student

2004
BRIN Fellowship (Arkansas Biomedical Research Infrastructure Network), UAMS
Golgi Apparatus and Protein Development
Brief Description: The goal of this study was to study protein development in the golgi apparatus as a means to learn microscopy and cell culture techniques.
Role: Graduate Student

2003
BRIN Fellowship (Arkansas Biomedical Research Infrastructure Network), UAMS
Fetal Alcohol Syndrome
Brief Description: The goal of this study was to study the development of fetal alcohol syndrome, with a particular focus on the microscopy of purkinje fiber development and apoptosis in the presence of alcohol.
Role: Graduate Student