**Dominic P. D’Agostino, Ph.D.**

**Doctor of Neurosciences/**

**Associate Professor with Tenure**

Department of Molecular Pharmacology and Physiology

Morsani College of Medicine

University of South Florida

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Dr. D’Agostino is responsible for leading the design and execution of Deanna Protocol studies. He is a world-renowned neuroscientist who has authored over 200 scientific publications: including 66 peer reviewed journal articles and 148 abstracts. Dr. D’Agostino also has led 23 major research products totaling millions of dollars in value, and currently has 30 patents in his name. He is a highly sought-after neuroscience and metabolic expert who has made over 200 media appearances and has been a guest interviewer for 22 different scientific journals and organizations. Dr. D’Agostino has also received multiple prestigious research grants from a variety of parties, including NASA, the U.S. Department of Defense, and the U.S. military.

**EDUCATION:**

1994-1998: B.S. Biological Sciences and Nutritional Sciences, Rutgers University, New Brunswick, NJ

1999-2004 Ph.D. Neuroscience and Physiology; Division of Pulmonary and Critical Care Medicine; Graduate School of Biomedical Sciences; Rutgers University, Robert Wood Johnson Medical School, University of Medicine and Dentistry of NJ (UMDNJ), New Brunswick, NJ

**Acamedic Employment and research experience:**

2004-2006: Postdoctoral Fellow

Department of Neuroscience, Cell Biology and Physiology)

Wright State University Boonshoft School of Medicine, Dayton, OH

2006-2008: Postdoctoral Fellow

Molecular Pharmacology and Physiology

University of South Florida Morsani College of Medicine, Tampa FL

2008-2010: Research Assistant Professor (Non-Tenure Track)

Molecular Pharmacology and Physiology

University of South Florida Morsani College of Medicine, Tampa FL

2010-2015: Assistant Professor (Tenure Track)

Molecular Pharmacology and Physiology

 University of South Florida Morsani College of Medicine, Tampa FL

2016-Present: Associate Professor (Tenured)

Molecular Pharmacology and Physiology

University of South Florida Morsani College of Medicine, Tampa FL

2014-Present: Research Scientist

 Florida Institute for Human and Machine Cognition (IHMC)

 Ocala, FL 34471

**Memberships**

American Physiological Society (APS)

Society for Neuroscience (SfN)

Undersea and Hyperbaric Medicine Society (UHMS)

Aerospace Medical Association (AsMA)

American Association for Cancer Research (AACR)

American Epilepsy Society (AES)

University of South Florida President’s Council

National Academy of Inventors (NAI)

**Awards**

1996: Cook College/Rutgers Undergraduate Educational Assistance Award

1999: Predoctoral Fellowship Award (5 yrs), UMDNJ-RWJMS

2000: Graduate Student Respiratory Physiology Award, FASEB, Experimental Biology

2003: Graduate Student Respiratory Physiology Award, FASEB, Experimental Biology

2003: Proctor and Gamble Professional Award in Physiol., FASEB, Experimental Biology

2005: Best Overall Clinically Related Presentation, Undersea and Hyperbaric Medicine Society (UHMS)

2005: Postdoctoral Fellowship Award (3 yrs), Office of Naval Research (ONR)

2014: Allentown High School Hall of Fame Lifetime Achievement Award

**Editorial Boards**

Journal of Applied Physiology

Oxford University Press

**INVITED REVIEWER**

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| --- | --- |
| * High Altitude Medicine and Biology
* Current Pharmaceutical Design
* Neuroscience
* Free Radicals in Medicine and Biology
* Epilepsia
* Respiratory Physiology & Neurobiology
* Journal of Evolution and Health
* Epilepsy Research
* PloS One
* Nutrition & Metabolism
* Journal of Applied Physiology
* Respiratory Physiology & Neurobiology
* International Journal of Sports Nutrition (ISSN)
* International Journal of Sports and Exercise Medicine
* Journal of Lipid Research
 | * International Journal of Cancer
* IUBMB Life
* Metabolomics
* Journal of Neuro-Oncology
* Oncotarget
* Cell Cycle
* Pharmacological Reports
* Medical Hypotheses
* Diving and Hyperbaric Medicine
* Current Pharmaceutical Design
* Cardiovascular Diabetology
* Nature Communications
* Frontiers in Nutrition and Metabolism
* American Journal of Clinical Nutrition
* Science Translational Medicine
* Comprehensive Physiology
* Journal of Sports Science and Medicine
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**Committees/ service**

2012-2017: University of South Florida; Comparative Medicine; Institutional Animal Care and Use Committee (IACUC)

2016: USF Young Innovator Competition Judge

2011-2013: USF Health Sciences Research Day Posters Judge

2014-2016: USF MCOM Curriculum Committee for Medical Education

2016-2018: USF Morsani College of Medicine Research Committee (COMCOR)

2017-Present: Council of Undergraduate Research

2017-Present: Co-Chair: American Epilepsy Society (AES) Special Interest Group (SIG) on Dietary Interventions

2018-Present: Advisor and Board Member of Hyperbaric Medicine International (HMI)

**Advisory Boards**

2014: Advisor: Expert Panel for FDA GRAS Determination of Ketone Metabolites

2012-Present: Scientific Advisory Board: Winning the Fight against Neurodegenerative Diseases (WFND; ALS Foundation), Tampa, FL

2013-Present: Scientific Advisory Board: Max Love Project (501c3)

2015-Present: Advisory Board Member: Keiser University

2016: Task Force Dagger Foundation: Special Operations Forces (SOF) Health Initiatives

2016-Present: Hyperbaric Medicine International (HMI)

2019-Present: Advisor for USF Center for Entrepreneurship

2020-Present: Readout Health

2020-Present: United Health Group

2020-Present: Levels Health

**Study Sections/ Grant Review**

2013: Reviewer: USF‐Moffitt Anna D. Valentine Cancer Research Award Grants

2012-2014: Ad Hoc Reviewer: Department of Veterans Affairs: VA Merit Grant Review; Neurobiology-A (NURA) and Neurobiology-B (NURB)

2015-2016: Mid-Atlantic NORC Pilot and Feasibility Grant Reviewer

2014-2017: Regular Member Reviewer: Department of Veterans Affairs: VA Merit Grant Review Neurobiology-B (NURB)

2018: Scientific Reviewer: USAMRMC; DOD CDMRP; Spinal Cord Injury Research Program (SCIRP)

2019: Scientific Reviewer: USAMRMC; DOD CDMRP; Nutritional Optimization (NO)

2019: Scientific Reviewer: USAMRMC; DOD CDMRP; Focused Program- Post-Traumatic Headache (FP-PTH)

2020: Scientific Reviewer: USAMRMC; DOD CDMRP; Nutritional Optimization (NO-ED

2020-2021: Ad Hoc Reviewer: USAMRMC; DOD CDMRP; Chronic Pain Management Research Program (CPMRP)

**Teaching**

**Lecturer (2005-2006)**: Course Title: Cells, Tissues, Organ Systems (CATOS): Five Lectures: *Signaling I, II, II; Receptors I, II:* Medical Year 1, Wright State University Boonshoft School of Medicine, Dayton, OH

**Lecturer (2005-2006)**: Course Title: Applications of Nanotechnology: *Biological Applications of Atomic Force Microscopy*; Wright State University School of Medicine, Dayton, OH

**Lecturer (2007-2008)**: Course Title: Principles of Pharmacology; *Dietary Effect on Drug Absorption and Metabolism*; GMS 6513, USF, Tampa, FL

**Lecturer (2007-present)**: Course Title: Neuropharmacology; *Dopamine, Antipsychotics and Excitatory Amino Acids*; GMS 6735; USF, Tampa, FL

**Major Professor (2010-present)**: Directed Undergraduate Research GMS 7910; USF, Tampa, FL

**Lecturer (2009-2010)**: Course Title: Membrane Physiology; *Redox-Modulated Ion Channels*, GMS 6433, USF, Tampa, FL

**Major Professor (2010-present)**: Laboratory Rotations: Biomedical Science; GMS 6942; USF, Tampa, FL

**Major Professor (2010-present)**: Directed Doctoral Dissertation Research; MCOM: GMS 7980 USF, Tampa, FL

**Major Mentoring Professor (2011-present)**: Graduate Seminar; MCOM; GMS 7939 002 USF, Tampa, FL

**Major Professor: (2012-Present):** Honors Thesis Course IDH 4970.001 - Thesis I

**Lecturer (2011-present):** Course Title: Basic Medical Biochemistry; *Reactive Oxygen Species (ROS) and Oxidative Stress in Disease Processes*, MCOM: GMS 6202, USF, Tampa, FL

**Lecturer (2016-present):** Course Title: GMS6440.003S17 Basic Medical Physiology: *Gastrointestinal Physiology; Small Intestine; Exocrine Pancreas & Liver/Gallbladder; Large Intestine, Gastrointestinal Health.* USF,Tampa, FL

**Lecturer (2016-present):** Course Title: GMS6706.003S17 Basic Medical Neurosciences; 1.*The Action Potential - Initiation & Propagation;* 2. *Synthesis, Storage, & Release of Neurotransmitters;* 3. *Postsynaptic Signaling;* USF, Tampa, FL

**Lecturer (2010-2018):** Course Title: Foundations in Biomedical Sciences; Redox Biochemistry: *Reactive Oxygen Species (ROS)*, GMS 6001; USF, Tampa, FL

**Lecturer (2013):** Advanced Respiratory Pathophysiology; Medical Year 4; Obstructive and Central Sleep Apnea, MDT8200E.A51M13; USF, Tampa. FL

**Course Director (2011-2015):** Advanced Studies in Metabolism and Signaling; GMS 7930; USF, Tampa, FL

**Guest Lecturer (2016-Present**): IDH3600.004F20.82091 Seminar in Ethics. Course role: Teacher

**Guest Lecturer** **(2018-2019):** Intro to BioAstronautics; BME 4400; USF, Tampa. FL

**Guest Lecturer** **(2020-2021):** BIOS 12121 Physiology in Extreme Environments (University of Chicago)

**Guest Lecturer (2021):** PCB 6930 Current Topics in Cancer Biology (USF, Tampa, FL)

**Training/Mentoring:**

**Doctoral Degree and Medical Student Training**

2021-Present **Committee Member**, Dr. Jason Sonners, MD; University of Miami; Effects of Hyperbaric Oxygen Protocols on Stem Cell Production

2021-Present **Major Professor**, USF MCOM Summer Internship Program: Francis "Sean" Walson USF Morsani College of Medicine; Class of 2024; Research, Innovation & Scholarly Endeavors (RISE) award recipient for “Improving Cognitive-Behavioral and Cardio-Metabolic Health with Continuous Glucose Monitoring (CGM)” 2021 Scholarly Summer Project.

2019-Present **Chair and PhD Committee Member**, Ph.D. Program in Chemistry: Michael Williams; Development of Novel Ketogenic Agents

2019-Present **Major Professor**, Ph.D. Program: USF Morsani College of Medicine; Sara Moss; “Epigenetic Metabolic Therapeutics”

2015-Present **Committee Member**, Ph.D. Program in Chemistry: Christopher M. Hinojo (USF MCOM; “Development of Novel Ketogenic Agents

2015-Present **Committee Member**, Ph.D. Program: USF Morsani College of Medicine: Nicole M. Stavitzski; “Effect of exogenous ketone salts on superoxide production in the rat caudal solitary complex during exposure to normobaric and hyperbaric hyperoxia”

2014-2020 **Major Professor**, Ph.D. Program: USF Morsani College of Medicine: Andrew P. Koutnik (Presidential Fellow); “Metabolic Therapeutics in Cancer Cachexia”; PhD Dissertation

2012-2017 **Major Professor**, Ph.D. Program: Nathan Ward (USF MCOM Presidential Fellow): Cancer Metabolism: Modulating glucose metabolism to induce mitochondrial stress in a mouse model of metastatic cancer. PhD Dissertation. <https://scholarcommons.usf.edu/etd/6778/>

2010-2015 **Major Professor**, Ph.D. Program: Shannon Kesl:  *"Metabolic Therapy for Age-Dependent Impaired Wound Healing"* (2016). PhD Dissertation. <http://scholarcommons.usf.edu/etd/6104>

2011-2015 **Major Professor (2012-13) and Committee Member**, Ph.D. Program: Hernandez-Ontiveros, Diana G., *"Neuroinflammatory Alterations via CD-36 in Traumatic Brain Injury"* (2015). PhD Dissertation. <http://scholarcommons.usf.edu/etd/5699>

2010-2014 **Major Professor**, Ph.D. Program: Angela Poff: "Targeting Cancer Metabolism with Ketosis and Hyperbaric Oxygen" (2014). PhD Dissertation. <http://scholarcommons.usf.edu/etd/5294>

2014-2020: **Committee Member**, Ph.D. Program: Portis, Samantha, "Protein and Protein Pathway Analysis of Serum and Microglia from ages Rats Treated with NT-0202”

2014-2020: **Chair and PhD** **Committee Member**, Ph.D. Program: Mast, Jason; “Recovery of fatigued muscles by application of synchronization-modulation of the sodium/potassium ATPase"

2012-2018: **Committee Member**, Ph.D. Program: Ciarlone, Geoffrey Edward, "Hypercapnic Hyperoxia Increases Free Radical Production and Cellular Excitability in Rat Caudal Solitary Complex Brain Slice Neurons" (2016). PhD Dissertation. <http://scholarcommons.usf.edu/etd/6481>

 2012-2017: **Committee Member**, Ph.D. Program: Ciarlone, Stephanie Lynn, "*The Effects of Synthetic and Dietary Therapeutics on Learning, Memory, Motor Coordination, and Seizure in an Angelman Syndrome Mouse Model*" (2016). PhD Dissertation*.*
<http://scholarcommons.usf.edu/etd/6482>

2011-2015: **Committee Member**, Ph.D. Program: Edwards, Clare B., "The effects of supplemented metabolites on lifespan and stress response pathways in Caenorhabditis elegans" (2015). PhD Dissertation.  <http://scholarcommons.usf.edu/etd/5681>

2011-2016: **Committee Member**, Ph.D. Program: Jamileh J. Ahmed*Analysis of iPSC-Derived Dopaminergic Neurons**Susceptibility to Influenza and Excitotoxicity in Non-Affective Psychosis*

2009-2013: **Committee Member and Collaborator**, Ph.D. Program: Milene Brownlow: *"Diet-Induced Ketosis and Calorie Restriction in Mouse Models of Alzheimer's Pathology"* (2013). PhD Dissertation. <http://scholarcommons.usf.edu/etd/4870>

2008-2013: **Committee Member**, Ph.D. Program: Adam Smith: *"Modulating the Pharmacokinetics of Bioflavonoids"* (2012). PhD Dissertation. <http://scholarcommons.usf.edu/etd/4226>

**Master’s Degree Training and Committees**

2012~2015: **Committee Member**, M.S. Ryan J. Colquhoun: Master’s Thesis: *Comparison of Powerlifting Performance in Trained Males Using Traditional and Flexible Daily Undulating Periodization.*<http://scholarcommons.usf.edu/etd/5464/>

2012~2015: **Committee Member**, M.S. Roberto E. Flores: Boston College: Master’s Thesis: *Mycoplasma Arginini Increases Activation, Energetic Deregulation, and Tumor Progression of VM-M3 Metastatic Macrophage Cells*

**Undergraduate Directed Research, Research Assistant Training, Undergrad Thesis**

2020-2021: Kobe Robichaux (USF Honors College; Major Professor Thesis)

2018- 2020: Bryanna Tanase (USF Honors College; Major Professor; Thesis Chair)

2017- 2020: Karina Noboa (USF College, Directed Research)

2017- 2019: Mark Moussa (USF Honors College)

2017- 2019: Sara Moss (USF College, Directed Research)

2016~2018: Janine DeBlasi (USF Honors College; APS Award Fellow; Thesis Mentor)

2016~2017: Melissa Ramirez (pre-med; MSP3; Directed Research)

2015- 2016: Karina Bach (USF Honors College; Thesis Major Professor)

2012- 2016: Craig Goldhagen (pre-med; USF Honors College; Directed Research)

2012~2014: Ashley Van Putten (pre-med; MSP3; Directed Research)

2013~2014: Gabrielle Dimattia (pre-med; MSP3; Directed Research)

2012~2014: Nicholas Mavromattes (pre-med; Biology; Directed Research)

2014~2015: Cem Murdin (Cancer Biology Directed Research)

2012~2013: Jacob Sherwood (Research Assistant)

2009~2010: Jaimie M. Luke (pre-med; USF; Biology: Directed Research)

2008~2010: Jaime Lago (Research Assistant)

**High School Mentoring**

2010~2016: BBBS Tampa Bay Mentor:James Tyler

2018~Present: South Sumter High School; Science Fair Mentor: Cheyenne Shirley

2019~Present: South Sumter High School; Science Fair Mentor: Trinity Skaggs

**Summary of RESEARCH PROGRAM**:

 Our laboratory develops and tests metabolic-based therapies and drugs that target pathways linked pathophysiologically to seizure disorders, neurodegenerative diseases, metabolic dysregulation, cancer and muscle wasting. To investigate the mechanism of these pathologies we use a variety of in vivo and in vitro techniques, including radio-telemetry (EEG, EMG), electrophysiology, fluorescence microscopy, confocal microscopy, atomic force microscopy (AFM), electron microscopy, histology, biochemical assays, metabolomics, toxicology, in vivo bioluminescence imaging, spectrophotometry, behavioral testing and motor function testing. Our work has adapted and utilized radio-telemetry, confocal microscopy and AFM for use inside environmental hyperbaric/hypobaric chambers. These tools allow us to conduct environmental physiology, and tissue and cellular studies under a broad range of oxygen concentrations and gas pressures to simulate oxidative stress and extreme environments or cellular hypoxia/ischemia. Our past and current projects, supported by the Department of Defense (DoD) and Office of Naval Research (ONR), have identified cellular and molecular correlates of CNS oxygen toxicity (CNS-OT) seizures. Our efforts have focused specifically on measuring neuronal excitability, reactive oxygen species (ROS) production, biomarkers of oxidative stress and global blood and tissue metabolomics. An emerging area of interest is developing and testing nutritional ketosis (e.g. ketogenic diet, supplementation) and metabolic-based therapies that target cancer metabolism, neuronal excitability and inflammatory pathways. Our in vitro and in vivo studies continue to explore the efficacy, mechanism of action and safety of metabolic-based therapies with current efforts focused on moving these therapies into human clinical trials.

1. **Research Support:**

**Grants and Contracts**

Title: Metabolic Interventions for Cognitive Resilience in Aging and Alzheimer’s disease

Purpose: The central hypothesis is that dietary ketosis (with ketone ester) will normalize activity levels across the prefrontal cortex and medial temporal lobe and attenuate the progression of tau pathology in a rat model pre-clinical Alzheimer’s disease.

Funding Agency: NIH R01

Amount: $ 144,849 (sub to USF: Project# 6143-1185-00)

Dates: 09/30/2018 to 08/31/2023

Role: **D’Agostino DP** (Co-I): Sara Burke (PI; UF)

Title: Optimizing ketone metabolic therapy and identifying biomarkers for mitigation and prediction of CNS oxygen toxicity: animal studies

Purpose: Assess the effect of nutritional ketosis supplementation on prevention of CNS oxygen toxicity symptoms in rats

Funding Agency: Office of Naval Research (ONR)

Amount: $ 1,021,278

Dates: 01/01/2018 to 12/31/2021

Role: **D’Agostino DP** (PI); Poff AM (Co-I); Dean JB (Co-I)

Title: Ketogenic Diet for Reduction of CNS Oxygen Toxicity Symptoms in Working Divers

Purpose: The purpose of this study is to assess the effect of nutritional ketosis on prevention of CNS oxygen toxicity symptoms.

Funding Agency: NAVSEA (Project #: 6143-1166-01)

Amount: $20,198

Dates: 01/01/2018 to 12/31/2021

Role: **D’Agostino DP** (Co-I: USF in collaboration with Duke; PI, Dr. Bruce Derrick)

**Foundation Accounts and Research Accounts**

Account Title: Metabolic Therapy and Cancer Research

Purpose: Account for advancing studies on metabolic therapies.

Funding Agency: USF Foundation (501c3)

USF Account No: 250244

Dates: 4/1/2014 to Present

Role: D’Agostino DP (PI)

Account Title: Patents and Licensing Research Foundation Account

Purpose: Research projects supported by USF patent royalties on metabolic-based therapies.

Funding Agency: Division of Patents and Licensing

USF Account No: R64303

Dates: 1/1/2013 to Present

Role: D’Agostino DP (PI)

**Completed Research Projects:**

Title:Ketone Supplementation for Cancer Cachexia

Purpose: Cancer cachexia studies assessing ketones bodies for anti-catabolic protein-sparing effects. The goal of this proposal is to assess the efficacy of mechanism of ketone formulations for use as a therapy to mitigate cancer cachexia.

Agency: Disruptive Nutrition

Amount: $154,968 (Total: FL-HTC match)

Project No: 6143115000

Dates: 7/27/2017 to 12/31/20

Role: **D’Agostino DP** (PI)

Grant Title: Evaluating Therapeutic Mechanisms of Ketosis in Cachexia

Funding Agency: Disruptive Nutrition

Funding Type: (Industry + FL/HTC Match)

Funding Period: 07/01/2019 to 06/30/2020

Total Direct Cost: $128,548

Current Annual Direct Cost: $76,521

Total Indirect Cost: $25,729

Role: **D’Agostino DP** (PI)

Title: Nutritional Support in a Model of Kabuki Syndrome

Purpose: Assess the effect of nutritional ketosis supplementation on a mouse model of Kabuki syndrome through cellular, molecular, behavioral and epigenetic changes.

Funding Agency: Disruptive Nutrition and FL-HTC

Amount: $ 69,708

Dates: 01/01/2019 to 12/31/2019

Role: **D’Agostino DP** (PI)

Title:Testing Press Pulse Strategy in Metastatic Cancer

Purpose: Assess the effects of combinatorial therapies on mitigating tumor growth and extending survival in a mouse model of aggressive metastatic cancer. .

Agency: Donner Foundation

Amount: $93,340 (Total)

Project No: 6143-1151-00

Dates: 7/27/2017 to 6/27/2018

Role: **D’Agostino DP** (PI)

Title:Testing Cancer Cachexia Therapy with Ketone Ester Supplementation

Purpose: Cancer cachexia is contributed to the demise of the patient through rapid wasting of lean body mass. Ketone esters are tested for use as an agent to mitigate cancer cachexia.

Agency: Donner Foundation

Amount: $66,330 (Total)

Project No: 6143-1152-00

Dates: 7/27/2017 to 6/27/2018

Role: **D’Agostino DP** (PI)

Title:Florida Center for Brain Tumor Research - Statewide Brain Tumor Registry Program at the McKnight Brain Institute

Purpose: Determine the ketone raising and glucose lowering effects of ketone ester (BD AcAc2) under a range of different macronutrient diets. Characterize the anti-cancer effects of ketone ester in an orthotopic patient-derived brain tumor (glioblastoma) model..

Agency: Florida Department of Health

Amount: $13,888 (Direct from Sub)

Project No: P0019025

Subcontract No: UFDSP00011478

Dates: 7/1/2016 to 6/30/2017

Role: **D’Agostino DP** (Project Director on Subcontract)

Title: Development and Testing of Ketogenic Diet, Ketone Supplementation and Hyperbaric Oxygen Therapy for Cancer

Purpose: The purpose of this study is to validate the efficacy and mechanism of metabolic-based approaches to managed cancer. Pre-clinical cancer models used to evaluate the therapies and the underlying signaling pathways associated with suppression of tumor growth.

Funding Agency: Epigenix Foundation (501c3)

Amount: $101,733 (Total)

USF Award Number: 6143-1131-00

Dates: 4/1/2016 to 3/31/2017

Role: **D’Agostino DP (PI)**

Title: Therapeutic efficacy of the co-administration of Glutamate Oxaloacetate Transaminase and Oxaloacetate (GOT/OX) for Amyotrophic Lateral Sclerosis (ALS)

Purpose: The objectives of this study are to 1) determine the pharmacokinetic and pharmacodynamic parameters of GOT/OX in wild-type mice and to determine the effects of GOT/OX on the health and survival of SOD1-G93A mice, a well-known mouse model of ALS.

Funding Agency: WFND Foundation (501c3)

Amount: $182,088 (Total)

USF Award Number: 6143-1119-00

Dates: 9/1/2015 to 12/31/2016

Role: **D’Agostino DP (PI)**

Title: Pre-Clinical Study to Assess Efficacy of Metabolic Therapy with Branched Chain Amino Acid (BCAA) Formula in Mouse Model of Metastatic Cancer

Purpose: The purpose of this project is to complete a pre-clinical mouse study to assess the efficacy, tolerability and safety of a metabolic therapy (nutritional ketosis) combined with BCAAs. The outcome measures of this study are tumor burden, survival time, tumor-associated signaling.

Funding Agency: Scivation Inc and FL-HTC matching funds

Amount: $360,955 (Total)

USF Award #6143109200

Dates: 1/1/2013 to 12/31/2017

Role: **D’Agostino DP (PI)**

Title: Testing the Efficacy of Ketone Supplementation in a Mouse Model of Glucose Transporter Type-1 Deficiency Syndrome (GLUT1D) mice

Purpose: The ketogenic diet is the standard care for GLUT1D, but the restrictive nature of the diet prevents compliance in many cases. Nutritional ketosis is therapeutic for GLUT1D because it elevates ketones in the blood, beta-hydroxybutyrate and acetoacetate, which function as alternative energy substrates to offset hypoglycorrhachia. The project investigates several novel ketogenic agents that induce “artificial ketosis”, and this circumvents the dietary restriction associated with induction via the clinically used restrictive ketogenic diet.

Funding Agency: GLUT1D Foundation (501c3)

Amount: $40,000 (Total)

USF Award: 6143109500

Dates: 1/1/2014 to 12/31/2016

Role: **D’Agostino DP (PI)**

Title: Mechanism of CNS and Pulmonary O2 Toxicity

Purpose: Determine the effects of CO2 retention on production of ROS/RNS and neuronal activity in the solitary complex. Determine the effects of hypercapnic hyperoxia on physiological indicators of an impending oxygen toxicity seizure (hyperoxic hyperpnea & hypothermia) and on mitigation strategies for delaying onset of seizures.

Funding Agency: Office of Naval Research (ONR)

ONR Award: N000141310405

Dates: 12/1/2012 to 12/31/2015

Role: Dean JB (PI); **D’Agostino DP (Co-I)**

Title: Therapeutic Efficacy of Topical Ketone Supplements in combination with Amniotic Tissue Allographs therapy for Wound Healing

Purpose: This project is designed to test the efficacy and mechanisms of a potential wound healing therapy. We will investigate the effects of topical ketones and amnion, chorion patch in the migration of human dermal fibroblasts.

Funding Agency: Tides Medical LLC

Grant #: 6143-1123-00

Dates: 11/1/2015 to 07/31/2016

Role: **D’Agostino DP (PI)**

Title: Efficacy and Mechanism of Ketone Esters for Central Nervous System Oxygen Toxicity (CNS-OT) Seizures

Purpose: The goal of this project is to develop and test several exogenous ketone agents as a mitigation strategy for CNS-OT in a rat model. In addition, pharmacokinetic and toxicology studies have been completed for FDA requirements for Generally Recognized as Safe (GRAS) determination. Microscopy and global metabolomic studies are being done to elucidate the cellular and molecular mechanism of this metabolic-based therapy.

Funding Agency: Office of Naval Research (ONR)

ONR Award: N00014-13-1-0062

USF Account Number: 6143108600

Dates: 12/1/2012 to 12/31/2015

Role: **D’Agostino DP (PI)**

Title: Assessment of Glycerol Tris *D,L*-3-Hyrdoxybutyrate in GLUT1D Syndrome

Purpose: The ketogenic diet is used for the metabolic management of GLUT1D, and manages the disease symptoms even in the presence of a persistent molecular pathology (*e.g.* SLC2A1 defect). This study seeks to use a novel tri-ester of the ketone beta-hydroxybutyrate (BHB) in a GLU1D mouse model to induce therapeutic ketosis. And preserve brain energy metabolism during hypoglycorrhachia. In addition to behavioral studies, blood and tissue is collected to assess the metabolic impact (global metabolic profile) that therapeutic ketosis has in the mouse model of GLUT1D.

Funding Agency: KetoProducts LLC

USF Award: 6143111000

Dates: 4/1/2015 to 3/31/2016

Role: Poff AP (PI); **D’Agostino DP (Co-PI);**

Amount: $20,000

Title: Pharmacokinetic Glycerol Tris *D,L*-3 Hydroxybutyrate

Purpose: Test the dose-response pharmacokinetics of a ketone beta-hydroxybutyrate (BHB) ester for consideration as Generally Recognized as Safe (GRAS) by the FDA.

Funding Agency: KetoProducts LLC

USF Award: 6143111000

Dates: 4/1/2015 to 3/31/2016

Role: Poff AP (PI); **D’Agostino DP (Co-PI);**

Amount: $5,000

Title: Effect of the Ketogenic Diet vs Western Diet on Strength, Body Composition and Metabolic Biomarkers

Purpose: This project was designed to assess the effects of nutritional ketosis on the performance, body composition, strength and blood safety biomarkers of advance athletes. Results from this experiment confirmed that nutritional ketosis results in favorable body composition alterations and favorable shifts in blood biomarkers of metabolic health.

Funding Agency: Quest Nutrition

USF Award: 6143109300 and 6143109301

Dates: 1/1/2014 to 06/30/2015

Role: **D’Agostino DP (PI)**

Amount: $120,000

Title: Cellular Mechanisms of CNS Oxygen Toxicity

Purpose: The primary objective of this project is to determine if a predictable pattern of cardiopulmonary changes precede onset of CNS oxygen toxicity, which could potentially be used as a biomarker of an impending O2-induced seizure. The second major goal is to determine the neuroprotective effects of hyperoxic preconditioning against CNS O2 toxicity. Funding Agency: Office of Naval Research (ONR)

ONR Award: N000140710890

Dates: 12/1/2009 to 8/31/2013

Role: Dean JB (PI); **D’Agostino DP (Co-I)**

Amount: $727,000

Title: Efficacy and Mechanism of Metabolic Therapy for Amyotrophic Lateral Sclerosis (ALS)

Purpose: Assess pathophysiologically linked to mitochondrial dysfunction and glutamate excitotoxicity linked to mouse model of ALS (SOD1-G93A).

Funding Agency: WFND (501c3)

USF Account Number: 6143107700

Dates: 9/1/2012 to 8/31/2014

Role: **D’Agostino DP (PI)**

Amount: $154,000

Title: Hyperoxia-Induced Oxidative Stress and its Ultrastructural Correlates in CNS Cells

Purpose: The objective of this project was to determine the effects of normobaric and hyperbaric hyperoxia on the biophysical properties of the plasma membrane and real time production of ROS and RNS using an integrated atomic force-fluorescence microscopy system that was developed and tested at USF through a DoD/DURIP equipment grant.

Funding Agency: Office of Naval Research (ONR)

ONR Award: N000140910244

Dates: 12/01/2008 to 7/1/2012

Role: **D’Agostino DP (PI)**; Dean JB (Co-I)

Amount: $677,420

Title: Laser Confocal Microscopy Studies of Oxygen Toxicity

Purpose: Adapting a cutting-edge confocal microscopy system for use inside an environmental/hyperbaric chamber. This technology allows us to visualize the effects of graded levels of hyperbaric gases on cellular processes, including reactive oxygen species (ROS) production, intracellular calcium and mitochondrial function in neurons.

Funding Agency: Department of Defense (DoD) Defense University Research Instrumentation Program (DURIP) Equipment Grant

ONR Award No.: N000141110890
PR No., Mod No.: 11PR09362-00

Dates: 12/01/2008 to 7/1/2012

Role: **D’Agostino DP (PI)**

Amount: $201,945

Title: Effect of Aging on O2-Dependent Redox Regulation of Survival and Growth of Human Fibroblasts and Rat Hippocampal Neurons: Implications for Wound Healing and Neuroprotection

Purpose: Determine the effect of hyperoxia on cell death and ROS production in human fibroblasts and rat hippocampal neurons. The completion of these studies allowed us to further understand the role of O2-induced oxidative stress and the differential effects between cells types.

Funding Agency: Signature Interdisciplinary Program in Neuroscience (SIPIN) pilot grant

Dates: 4/1/2011 to 3/31/2012

Role: **D’Agostino DP (PI)**; Gould LJ; Ari C, Kesl S

Amount: $4,000

Title: Molecular and Cellular Studies of CNS O2 Toxicity using Hyperbaric Atomic Force Microscopy (HAFM)

Purpose: Hyperbaric AFM studies were done on brain cells to understand the effects of hyperoxia and other normobaric and hyperbaric gases on the cell membrane morphology. These studies allowed us to elucidate and the physical correlates of membrane lipid peroxidation, and to link this pathophysiologically to changes associated with hyperoxia-induced neuronal excitability and metabolic dysfunction.

Funding Agency: Office of Naval Research (ONR) Postdoctoral Fellow Award

Grant Award: ONR No. N000140610105

Dates: 12/01/05-11/30/08

Role: **D’Agostino DP (PI)**

Amount: $302,564

**Peer Review PUBLICATIONS (reverse chronological order)**

**(Senior Authorship Underlined)**

1. Norwitz NG, Winwood R, Stubbs BJ, D'Agostino DP and Barnes PJ. "Case report: Anti-inflammatory ketogenic diet improves Chronic Obstructive Pulmonary Disease" *Frontiers in Medicine, section Pulmonary Medicine*, (under review)
2. Azari H, Poff AM, **D’Agostino DP**, Kubilis PD, Reynolds BA. Ketone Ester Supplementation of Atkins-type Diet Prolongs Survival in Orthotopic Xenograft Model of Glioblastoma. *Frontiers in Oncology, section Cancer Molecular Targets and Therapeutics.* 2021.
3. Gambardella I, Ascione G, **D'Agostino DP**, Ari C, Ivascu N, Villena-Vargas J, Girardi L. Neuroprotection of Ketosis in Acute Injury of the Mammalian Central Nervous System: a Meta-Analysis. *J Neurochem. 2021; 00: 1– 14.* <https://doi.org/10.1111/jnc.15341>
4. Hinojo CM, Ciarlone GE, **D’Agostino DP**, Dean JB. Exogenous ketone salts inhibit superoxide production in the rat caudal solitary complex during exposure to normobaric and hyperbaric hyperoxia. *J Appl Physiol.* 2021 Mar 4. doi: 10.1152/japplphysiol.01071.2020.
5. Brunner B, Rauch E, Ari C, **D'Agostino DP**, Kovács Z. Enhancement of Ketone Supplements-Evoked Effect on Absence Epileptic Activity by Co-Administration of Uridine in Wistar Albino Glaxo Rijswijk Rats. *Nutrients*. 2021 Jan 15;13(1):234. doi: 10.3390/nu13010234
6. Kovacs Z, Brunner B, **D'Agostino DP**, Csilla Ari. Age-and gender-dependent modulation of exogenous ketone supplement-evoked effects on blood glucose and ketone body levels in Wistar Albino Glaxo Rijswijk rats. *Front. Neurosci*., 11 January 2021 | https://doi.org/10.3389/fnins.2020.618422
7. Koutnik AP, Favre M, Noboa K, Sanchez-Gonzalez MA, Moss SE, Goubran B, Ari C, Poff AM, Rogers CQ, DeBlasi JM, Samy B, Moussa M, Serrador JM, **D'Agostino DP** . Human Adaptations to Multiday Saturation on NASA NEEMO. *Front. Physiol.,* 12 January 2021 | https://doi.org/10.3389/fphys.2020.610000
8. Aronica L, Volek J, Poff A. **D’Agostino DP**. Genetic variants for personalised management of very low carbohydrate ketogenic diets. *BMJ Nutrition*, Prevention & Health 2020;bmjnph-2020-000167. doi: 10.1136/bmjnph-2020-000167
9. Prins, PJ, **D’Agostino DP**, Rogers CQ, Ault DL, Welton GL, Jones DW, Henson SR, Rothfuss TL, Aiken KG, Hose JL, England EL, Atwell Ad, Buxton JD, Koutnik AP. Dose response of a novel exogenous ketone supplement on physiological, perceptual and performance parameters. *Nutr Metab* (Lond) 17, 81 (2020). https://doi.org/10.1186/s12986-020-00497-1
10. Ari C, Murdun C, Goldhagen C, Koutnik AP, Bharwani SR, Diamond DM, Kindy M, **D'Agostino DP**, Kovacs Z. Exogenous Ketone Supplements Improved Motor Performance in Preclinical Rodent Models. *Nutrients*. 2020 Aug 15;12(8):2459. doi: 10.3390/nu12082459. PMID: 32824223
11. Hernandez A, Truckenbrod L, Federico Q, Campos K, Moon B, Ferekides N, Hoppe M, D'Agostino D, Burke S. Metabolic switching is impaired by aging and facilitated by ketosis independent of glycogen. Aging (Albany NY). 2020 May 5;12(9):7963-7984. doi: 10.18632/aging.103116. Epub 2020 May 5. PMID: 32369441
12. Deemer SE, Davis RA, Smith DL, Poff AM, Koutnik AP, **D’Agostino DP**, Plaisance EP. Exogenous Dietary Ketone Esters Decrease Body Weight and Adiposity in Mice Housed at Thermoneutrality. 2020 *Obesity.* April.14,2020 doi: 10.1002/oby.22855.
13. Koutnik AP, Poff AM, Ward NP, DeBlasi JM, Soliven MA, Romero MA, Roberson PA, Fox CD, Roberts MD, **D’Agostino DP**. Ketone Bodies Attenuate Wasting in Models of Atrophy. 2020 Apr 2. *J Cachexia Sarcopenia Muscle*. 2020;10.1002/jcsm.12554. doi:10.1002/jcsm.12554
14. Prins PJ, Koutnik AP, **D’Agostino DP**, Rogers CQ, Seibert JF, Breckenridge JA, Jackson DS, Ryan EJ, Buxton JD, Ault DL. Effects of an Exogenous Ketone Supplement on Five-Kilometer Running Performance. *Journal of Human Kinetics*. 2020 Mar; 72: 115–127. DOI: 10.2478/hukin-2019-0114
15. Kovács Z, Brunner B, **D'Agostino DP**, Ari C. Inhibition of adenosine A1 receptors abolished the nutritional ketosis-evoked delay in the onset of isoflurane-induced anesthesia in Wistar Albino Glaxo Rijswijk rats. *BMC Anesthesiol.* 2020;20(1):30. Published 2020 Jan 30. doi:10.1186/s12871-020-0943-z
16. Herber DL, Weeber EJ, **D'Agostino DP**, Duis J. Evaluation of the safety and tolerability of a nutritional Formulation in patients with ANgelman Syndrome (FANS): study protocol for a randomized controlled trial. *Trials*. 2020;21(1):60. Published 2020 Jan 9. doi:10.1186/s13063-019-3996-x
17. Poff AM, Rho JM, **D'Agostino DP**. Ketone Administration for Seizure Disorders: History and Rationale for Ketone Esters and Metabolic Alternatives. Review *Front Neurosci.* 2019; 13: 1041.Oct 15. doi: 10.3389/fnins.2019.0104
18. Ari C, Murdun C, Koutnik AP, Goldhagen CR, Rogers C, Park C, Bharwani S, Diamond DM, Kindy MS, **D'Agostino DP**, Kovács Z. Exogenous Ketones Lower Blood Glucose Level in Rested and Exercised Rodent Models. *Nutrients*. 2019 Oct 1;11(10). pii: E2330. doi: 10.3390/nu11102330
19. Kovács Z, **D’Agostino DP**, Diamond D, Kindy MS, Rogers CQ, Ari C; Therapeutic Potential of Exogenous Ketone Supplement Induced Ketosis in the Treatment of Psychiatric Disorders: Review of Current Literature. *Front. Psychiatry*, 23 May 2019 https://doi.org/10.3389/fpsyt.2019.00363
20. Deemer SE, Davis RAH, Gower BA, Koutnik AP, Poff AM, Dickinson SL, Allison DB, **D'Agostino DP**, Plaisance EP. Concentration-Dependent Effects of a Dietary Ketone Ester on Components of Energy Balance in Mice. *Front Nutr.* 2019 May 1;6:56. doi: 10.3389/fnut.2019.00056
21. Gross EC, Klement RJ, Schoenen J, **D'Agostino DP**, Fischer D. Potential Protective Mechanisms of Ketone Bodies in Migraine Prevention. *Nutrients*. 2019 Apr 10;11(4). pii: E811. doi: 10.3390/nu11040811. Review.
22. Koutnik AP, **D’Agostino DP**, Egan B. The Anti-Catabolic Effects of Ketone Bodies. *Trends in Endocrinology and Metabolism*. 2019 Apr;30(4):227-229. doi: 10.1016/j.tem.2019.01.006.
23. Kovács Z, **D'Agostino DP**, Diamond DM, Ari C. Exogenous Ketone Supplementation Decreased the Lipopolysaccharide-Induced Increase in Absence Epileptic Activity in Wistar Albino Glaxo Rijswijk Rats. *Front Mol Neurosci*. 2019 Feb 28;12:45. doi: 10.3389/fnmol.2019.00045.
24. Ari C, **D'Agostino DP**, Diamond DM, Kindy M, Park C, Kovács Z. Elevated Plus Maze Test Combined with Video Tracking Software to Investigate the Anxiolytic Effect of Exogenous Ketogenic Supplements. *J Vis Exp.* 2019 Jan 7;(143). doi: 10.3791/58396
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32. Ward NP, Poff AM, Koutnik AP, **D'Agostino DP**. Complex I inhibition augments dichloroacetate cytotoxicity through enhancing oxidative stress in VM-M3 glioblastoma cells. *PLoS One*. 2017 Jun 23;12(6):e0180061. doi:10.1371/journal.pone.0180061. eCollection 2017. PubMed PMID: 28644886.
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**Books/Chapters**

1. Poff AM, Kesl SL, Koutnik AP, Moss SE, Rogers CQ, **D’Agostino DP**. Chapter 34: (2021) Ketone Supplementation for Health and Disease. Ketogenic Diet and Metabolic Therapies. 2nd Edition. *Oxford University Press*
2. Kovacs Z, **D’Agostino DP**, Ari C. Chapter 37: (2021) Neuroprotective and Behavioral Benefits of Exogenous Ketone Supplementation-evoked ketosis Ketogenic Diet and Metabolic Therapies. 2nd Edition. *Oxford University Press*
3. **D’Agostino DP**. Chapter 32: (2021) Overview of Ketone-Based Metabolism: General Health and Metabolic Alternatives. *Oxford University Press*
4. Seyfried TN, Mukherjee P, and **D’Agostino DP**. The Science of Low Carbohydrate and Ketogenic Nutrition in Human Health textbook: Cancer Management Using Press-Pulse Ketogenic Metabolic Therapy. 2020
5. Poff AM, Annis H, Whelan HT, Ari C, **D’Agostino DP**. Ketogenic Diet and Ketogenic Supplementation for Central Nervous System Oxygen Toxicity Hyperbaric Medicine Practice, 4th edition.. Whelan HT, Kindwall EP, editors. North Palm Beach, FL: Best Publishing Company, 2017. Pgs. 995-1014.
6. Travis Christofferson (Author), **Dominic P. D'Agostino** (Foreword): *Tripping over the Truth: How the Metabolic Theory of Cancer Is Overturning One of Medicine's Most Entrenched Paradigms:*  Chelsea Green Publishing 2017.
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9. **D’Agostino DP.** (2016) Chapter 31: Overview of Ketone-Based Metabolism: General Health and Metabolic Alternatives. pgs 307-309 (*Oxford University Press*; ISBN: 9780190497996) https://global.oup.com/academic/product/ketogenic-diet-and-metabolic-therapies-9780190497996?cc=ca&lang=en&
10. Ari, C., Pilla, R., **D’Agostino DP**. (2014) Nutritional/Metabolic therapies in animal models of ALS, Alzheimer’s disease, and seizures, in: *Bioactive Nutraceuticals and Food Supplements in Neurological and Brain Disease,* Chapter 47. Prevention and Therapy, 2015, Pages 449–459. DOI 10.1016/B978-0-12-411462-3.00047-3
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**Abstracts**

1. Moss S, Soliven M, Poff A, **D’Agostino DP**. Using Exogenous βHB as an Epigenetic Modifier to Mitigate the Symptoms of Kabuki Syndrome. *FASEB* 18 April 2020 <https://doi.org/10.1096/fasebj.2020.34.s1.06268>
2. Moss S, Soliven M, Poff A, Noboa K, D’Agostino DP. Press Pulse Therapy in MMTV‐PyMT Murine Breast Cancer. *FASEB* 18 April 2020. 9.<https://doi.org/10.1096/fasebj.2020.34.s1.06323>
3. Ari C, **D’Agostino DP**, Bharwani S, Rehsi A, Moss S, Schmer-Galunder S, Fiore S. Changes in Motor Function in Response to Living in an Extreme Underwater Saturation Environment under High Stress and Increased Workload. *FASEB*. 20 April 2020 <https://doi.org/10.1096/fasebj.2020.34.s1.09603>
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**Technical Reports**

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2. **D’Agostino DP.** (2014) Efficacy and Mechanism of Ketone Esters for Central Nervous System Oxygen Toxicity (CNS-OT) Seizures. Tech Report for ONR Award: N00014-13-1-0062
3. **D’Agostino DP**. (2014) Hyperoxia-Induced Oxidative Stress and its Ultrastructural Correlates in CNS Cells. Tech Report for ONR Award: N000140910244
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5. **D’Agostino DP (PI)**. (2012) Dean JB. Molecular and Cellular Studies of CNS O2 Toxicity using Hyperbaric Atomic Force Microscopy (HAFM): Tech Report: ONR Award: N000140910244

**Patents**

1. Jay B. Dean; **Dominic P. D’Agostino**; *“Development and Use of Hyperbaric Atomic Force Microscopy*” (Patent: 09A008PR2, University of South Florida): http://www.google.com/patents/US20130145506
2. **Dominic P. D’Agostino**; Jay B. Dean.*“Systems And Methods For Performing Microscopy At Hyperbaric Pressures”* (Patent: US 20130145506 A1, University of South Florida): <http://www.google.com/patents/US20130145506>
3. **Dominic P. D’Agostino**; Jay B. Dean: “*Integrated System for Hyperbaric Atomic Force Microscopy and Fluorescence Microscopy in Live Cells* (Patent: 09A008, University of South Florida)
4. **Dominic P. D’Agostino**; Angela Poff; *“Targeting Cancer with Metabolic Therapy and Hyperbaric Oxygen”* (USF Ref. No.: 12B152PRWOUS): Office (USPTO): #9,801,903 <http://www.google.com/patents/WO2014085652A1?cl=en>
5. **Dominic P. D’Agostino;** Patrick Arnold, Shannon Kesl;“*Composition and Methods for Producing Elevated and Sustained Ketosis”*USPTO 9,675,577**;** 12B109PRWOUSCN;(University of South Florida): <http://www.google.com/patents/WO2014153416A1?cl=en>
6. **Dominic P. D’Agostino**; Patrick Arnold, Shannon Kesl; “*Composition and Methods for Producing Elevated and Sustained Ketosis*” USPTO. 9,138,420 <https://patents.google.com/patent/US9138420B2/en>
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8. **Dominic D’Agostino;** Shannon Kesl: Methods of Sustaining Dietary Ketosis and its Effects on Lipid Profile;(USPTO# 10,792,268 on October 6, 2020) <https://www.google.com/patents/WO2014153416A1>
9. Edwin Weeber; **Dominic D’Agostino**; Stephanie Ciarlone: “Ketone Esters for Treatment of Angelman Syndrome” U.S. Patent and Trademark Office (USPTO) #9,795,580
10. **Dominic P. D’Agostino**; Shannon Kesl; Patrick Arnold: Composition for suppressing appetite and/or promoting ketosis and weight loss in a mammal. Comprises medium chain fatty acids or its esters, and beta-hydroxybutyrate compounding. (Patent: US2014350105-A1)
11. **Dominic P. D’Agostino**; Patrick Arnold; Poff AM: Treating metabolic dysregulation such as Alzheimer’s disease and cancer, comprises administering a ketogenic diet to an animal, and subjecting the animal to a hyperbaric oxygen-enriched environment. (USPTO US2014072654-A1)
12. **Dominic P. D’Agostino**; Patrick Arnold; Dean J.B: Treating neurological disorders e.g. Alzheimer’s disease arising from impaired brain metabolism involves inducing mild ketosis in a subject by administering a dose of ketone ester. (USPTO: CA2873057-A1)
13. **Dominic P. D’Agostino**; Angela Poff; “The Ketone Metabolite β-hydroxybutyrate Blocks NLRP3 Inflammasome-Mediated Inflammatory Disease” (Disclosure:#13A053, University of South Florida)
14. **Dominic D’Agostino**, Janine Deblasi, Andrew Koutnik, Angela Poff; USF Ref. No.: 17A044 - Pharmacological Ascorbic Acid and Hyperbaric Oxygen as Pro-oxidative, Metabolic, Anti-cancer Therapies
15. Ari, C., ArnoldP., **D`Agostino, D.P**. Technology Title: “Elevated Blood Ketone Levels by Ketogenic Diet or Exogenous Ketone Supplements Induced Increased Latency of Anesthetic Induction” USF Ref. No. 16A018PR
16. Ari, C., ArnoldP., **D`Agostino, D.P.** Technology Title: “Exogenous Ketone Supplementation Improved Motor Function in Sprague-Dawley Rats.”  USF Ref. No: 16A019
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18. Ari, C., ArnoldP., **D`Agostino, D.P**. Technology Title: “Ketone Supplementation Elevates Blood Ketone Level and Improves Motor Function in GLUT1 Deficiency Syndrome Mice.” USF Ref. No:  16B116 (provisional patent)
19. Ari, C., ArnoldP., **D`Agostino, D.P.** Technology Title: “Neuroregeneration improved by ketone.” USF Ref. No:  16B128 (provisional patent)
20. Ari, C., **D`Agostino, D.P.** Dean, J.B. Delayed Latency to Seizure by Combinations of Ketone Supplements. Publication date: August 22, 2019; Publication number: 20190255003
21. Angela Poff; **Dominic P. D’Agostino**; “Exogenous Ketogenic Agents or Supplements for Anti-Coagulation and/or Blood Thinner Use”: Disclosure:#17B142
22. Andrew Koutnik; **Dominic P. D’Agostino**; 20A012PR; Ref: 11001-109WO1 “Ketone Bodies Attenuate Wasting in Models of Atrophy”
23. Andrew Koutnik; **Dominic P. D’Agostino**. Ketone Bodies Multifaceted Anti-Aging/Pro-Longevity Therapeutic Effect. USF Tech. ID: 20A012; USF Ref. No.: 62/964,952.
24. Andrew Koutnik; **Dominic P. D’Agostino.** Provisional Patent Application entitled “Methods to Mitigate Symptoms of Hypoglycemia” USF Ref. No.: 19B134PR\_Koutnik
25. Andrew Koutnik; Angela Poff; **Dominic P. D’Agostino**: Utility Patent Application entitled “Composition and Methods for Weight Loss Maintenance” USF Ref. No. 17B162PR2WO (Jan. 2021)
26. **Dominic P. D’Agostino**; Patrick Arnold; Jay B. Dean; Raffaele Pilla; “Ketone esters for prevention of CNS oxygen toxicity” United States Letters Patent No. 10,842,767 on November 24, 2020
27. **Dominic P. D’Agostino**; Shannon Kesl; “Metabolic Therapy for Wound Healing”; United States Letters Patent No. 10,864,184 on December 15, 2020
28. Sara Moss; Angela Poff; **Dominic P. D’Agostino**: Ketone-induced Epigenetic Regulation in Kabuki syndrome. USF: Patent Disclosure, December 15, 2020
29. Andrew Koutnik; Angela M. Poff; Kelly H. Koutnik; **Dominic P. D’Agostino**. Mitigating Nausea & Vomiting of Pregnancy with Glycemic Monitoring. USF: Patent Disclosure
30. Ari, C., Arnold P., **D`Agostino, D.P.** Technology Title: “Exogenous Ketone Supplements for Reducing Anxiety Behavior” USF Ref. No. 16A007: April 20, 2021: U.S. Patent No. 10,980,764.

**Invited Presentations, Lectures and Keynotes**

1. American Diabetes Association (ADA): Mini-Symposium: Presentation Title. *Carbohydrate Intake and Its Impact on Athletics and Health*- June, 2021
2. University of Chicago (April 29, 2021); Presentation entitled “Training and Research on NASA NEEMO 22 and 23 Missions”; Emergency Medicine; Institute for Integrative Physiology.
3. FEMA; U.S. Department of Homeland Security; U.S. Spine & Sport Foundation; *Implementation of a Regional Firefighter Wellness Initiative: Ketogenic and Low Carbohydrate Nutrition* (Virtual Workshop; Feb. 2021)
4. American Epilepsy Society (AES) 2020 Investigator Workshop (IW): *Metabolism-Targeted Treatments for Epilepsy* (Virtual Workshop)
5. NIH National Institute of Neurological Disorders and Stroke (NINDS), Bethesda, Maryland US; *Metabolism-based Therapies for Epilepsy Workshop*; Nov. 9-10, 2020
6. University of Florida (Gainesville, FL): Food Science and Human Nutrition; Nutritional Sciences Fall Theme Seminar; “*Emerging Applications of Nutritional Ketosis and Methods of Implementation*” September 17, 2020
7. University. Chicago (May, 2020) Presentation entitled “*Physiology in Extreme Hyperbaric Environments*”; Emergency Medicine; Institute for Integrative Physiology.
8. NASA Johnson Space Center CB/Astronaut Office (Houston, TX; August 2, 2018); *Nutritional Ketosis: Science to Operational Applications*
9. NASA Johnson Space Center: Human Research Program (HRP) Presentation: (Houston, TX; July 30, 2018); *Metabolic Effects on Genes and Signaling*
10. Medical College of Wisconsin (May 16, 2018): Biochemistry Department; *Nutritional Ketosis: Emerging Applications*
11. Science and Technology Club of Sun City (May 15, 2018): Evening Lecture Series: *Applications and Practical Implementation of Nutritional Ketosis*
12. Integrated Health Symposium (New York City; (Feb. 22, 2018): Panel Discussant hosted by Dr. David Perlmutter: “*Is there a best diet for humans*?”
13. Moffitt Cancer Center Seminar Series (Tampa, FL; Dec. 7, 2017); *Nutritional Ketosis: Changing Metabolic Physiology to Target Tumor Metabolism and Signaling*
14. USF Alumni Association Annual Evening Lecture Series (USF MCOM; Tampa, FL; Nov. 16, 2017); *Emerging Applications of Nutritional Ketosis*
15. Clearwater Rotary Club (Clearwater, FL; Nov. 15, 2017): *Undersea to Space: Research on NASA NEEMO 22 Mission*
16. Advanced Applications in Medical Practice (AAMP) Conference (Portland, OR Oct 27-29, 2017): *Cancer Metabolism: Where the Weak Links Are*
17. Advanced Applications in Medical Practice (AAMP) Conference (Portland, OR Oct 27-29, 2017): *Dietary Manipulation for Cancer Management*
18. Advanced Applications in Medical Practice (AAMP) Conference (Portland, OR Oct 27-29, 2017): *Research Models Showing Therapeutic Synergy*
19. Advanced Applications in Medical Practice (AAMP) Conference (Portland, OR Oct 27-29, 2017): *Targeting Neurodegeneration and Inflammation*
20. HBOT2017 (International Hyperbaric Medicine Foundation) (New Orleans, LA: August 19-20th): *Overview on the use of Hyperbaric Oxygen Therapy for Cancer* <http://hbot2017.com/>
21. Master the Possibilities Evening Lecture (Ocala, FL; August 8, 2017); *Ketogenic Nutrition for Cancer Therapy and Adjuvant for Cancer Management*
22. Glucose Transporter 1 Deficiency Syndrome (GLUT1DS) Conference;(Nashville, TN: July 2017); *Exogenous Ketone Research: Therapeutic and Signaling Effects* <http://www.g1dfoundation.org/conferences-2/2017-conference-nashville/>
23. University of Florida, McKnight Brain Institute; Department of Neuroscience; (March 2, 2017); *Emerging Applications of Exogenous Ketones*
24. Boston College; Invited speaker: Department of Biology; (Nov. 15, 2016): *Therapeutic Ketosis: Regulation, Signaling and Applications*
25. Boston College; Invited lecture:; (Nov. 15, 2016): Lecture subject: *Cancer as a Metabolic Disease: Press Pulse Therapies*
26. USF School of Physical Therapy & Rehabilitation Sciences: *Nutrition Expert Panel: Health Promotion and Wellness*
27. Fifth Ketogenic Diet Symposium (Sept 23, 2016; Banff, Canada): Invited speaker: *In Vitro Model Systems for Cancer* Moderator and Panel Discussant for Ketogenic Diet and Cancer.
28. Preventive and Integrative Medicine Interest Group; USF MCOM (Sept. 15, 2016): *Neurological Applications of Nutritional Ketosis*
29. BioLayne Foundation Conference: (August 5-6, 2016). *Ketone Metabolites as Signaling Molecules for Prevention of Cachexia.*
30. Low Carb USA, 1st International Conference (Westin Gaslamp Dist, San Diego, CA: July 30th); *Ketone Metabolites as Signaling Molecules*
31. Keiser University (Tampa, FL; May 24, 2016). Guest Lecture: *Metabolic-Based Research and Approaches to Target Neurological Disorders*
32. Arizona Naturopathic Medical Association (AzNMA). (Scottsdale, AZ, May 20-21, 2016); *Ketogenic Nutrition and Supplementation as an Adjuvant for Cancer Management*
33. Hyperbaric Medical Solutions (Woodbury, NY; May 10, 2016): *Combined use of HBOT and Ketogenic Diet for Cancer Management.* [*http://hyperbaricmedicalsolutions.com/drhoffman-com-2016-05-10-001/*](http://hyperbaricmedicalsolutions.com/drhoffman-com-2016-05-10-001/)
34. Office of Naval Research Workshop on Decompression Sickness (DCS) and Central Nervous System (CNS) Oxygen Toxicity: (ONR; Washington DC; May 13, 2016); *CNS Oxygen Toxicity: Mitigation Strategy*
35. US Army Research, Development and Engineering Command; Natick Soldier Research Center (Natick, MA; January 21-23, 2016): *Nutritional Ketosis: Implications for Warfighter Health, Performance and Resilience*
36. Office of Naval Research (ONR) Undersea Human Performance Workshop; Naval Research Laboratory (San Diego, CA; 2016); *Metabolic Countermeasures for Performance and Resilience in the Undersea Environment*
37. US Special Operations Command (SOCOM): (Fort Bragg; NC; January 5-6, 2016); *Nutritional Ketosis: Implications for Warfighter Health, Performance and Resilience*
38. SEAL FIT Workshop: (San Diego, CA: Dec 4-5, 2015): *Exogenous Ketones for Warfighter Safety Perfromance and Resilience*
39. University of Alabama at Birmingham (UAB); Nutrition Obesity Research Center and Department of Nutrition Sciences. (Birmingham, Alabama; Oct. 6 -7, 2015): *Nutritional Ketosis: Implications for Obesity and Associated Disease States*
40. UCB Epilepsy Summit I: Advancing Innovative Science into Patient Solutions (Braine-l’Alleud, Belgium; Sept. 30 – Oct.1, 2015); *Metabolism of glioma cells and tumors associated with epilepsy – role of ketogenic diet*
41. NASA Johnson Space Center: Department of Biomedical Research & Environmental Sciences; (Houston, TX; August 27, 2015); *Metabolic Countermeasures Nutritional Strategies for Long Duration Space Flight*
42. NASA Johnson Space Center: Department of Exercise Physiology; Human Research Program (HRP): (Houston, TX; August 26, 2015); *Superfuel: Synthetic Ketones as a Strategy for Long Duration Space Flight: Mitigating Physiological Risks*
43. NASA-sponsored meeting on Biological Countermeasures (BCMs) against Space Radiation Risks (IHMC Pensacola; Aug 18-19, 2015); *Metabolic Approaches to Reducing Radiation-Induced Carcinogenesis, Oxidative Stress and Inflammation*
44. NASA-sponsored meeting on Human Performance and Resilience in Space and Undersea Environments (IHMC Pensacola; August 11-12, 2015); *Metabolic Countermeasures Against Physiological Effect of Space and Undersea Environments*
45. Genentech, Department of Molecular Oncology (San Francisco, CA; June 19-20); *Understanding the Molecular Mechanism of the Ketogenic Diet; Druggable Targets*
46. Notable Labs (San Francisco, CA: June 17-18); *Development of a Nontoxic Metabolic Therapy for Cancer; Molecular Pathways*
47. Drexel University 4th Annual Sport Nutrition Conference (Philadelphia, PA: May 19, 2015); *Keynote*: *Metabolic Strategies for Enhanced Performance and Body Composition*
48. Third International Conference on Deuterium Depletion (Budapest Hungary; May 7-8, 2015); *Keynote Lecture: Non-toxic metabolic management of metastatic cancer: Novel combination of ketogenic diet, ketone supplementation, and hyperbaric oxygen therapy*
49. McKnight Brain Institute; University of Florida (UF; Gainesville. FL; April 27, 2015); *Neuroprotective Metabolic Strategies*
50. NASA BlueSky Workshop on Exercise Technologies and Methods for Space Exploration (IHMC Pensacola; Feb 11-12, 2015); *Metabolic Strategies to Preserve and Enhance Exercise Performance and Adaptation for Human Spaceflight*
51. University of Tampa Conference on Human Performance and Nutrition; Department of Exercise Physiology (Tampa, FL; Feb, 2015): *Keynote Lecture: Ketogenic Dieting: Emerging Evidence of Fat and Ketones as Fuel*
52. Eötvös Loránd University; Institute of Biology; (Budapest Hungary; Oct 15, 2014); *Ketogenesis as an antiseizure and anticancer strategy: Cellular and molecular mechanism.*
53. Matthew’s Friends 4th Global Symposium for Dietary Therapies for Epilepsy and other Neurological Disorders for Health Care Professionals (Liverpool, UK, Oct 7-11, 2014): *Moving towards Neuroprotection?*
54. Institute for Human and Machine Cognition (IHMC, Ocala, FL: September 25, 2014): Evening Lecture Series: *Metabolic Therapies: Therapeutic Applications and Practical Implementation.*
55. International Hyperbaric Oxygen Therapy Conference (New Mexico: Aug 22-24); *Hyperbaric Oxygen and Ketogenic Diet as an Adjuvant for Cancer Therapy*
56. Ancestral Health Symposium (AHS; Berkeley, CA; Aug 6-9); Panel Speaker: *Ketogenic Diet for Cancer*
57. BioLayne Foundation Conference on Physical Performance (July 21- July 23, 2014). *Ketogenic Nutrition: Effect on body Composition and Metabolic Biomarkers*
58. International Society of Sports Nutrition (ISSN; Clearwater, FL; June 19-21, 2014); *Metabolic Strategies for Enhanced Physical and Cognitive Performance*
59. Epilepsy Pipeline Conference (San Francisco, CA; June 5-7, 2014); *Ketogenic Compounds for the Treatment of Epilepsy*
60. NASA Blue Sky Workshop at Cosmos Club (Washington D.C.; May 29-June 1, 2014); Presentation entitled: *Ketones for Astronaut Safety, Performance and Resilience.* Workshop proceedings written up as technical report.
61. Beckman Institute, University of Illinois (Champaign, IL; May 2014); Biochemistry Department: *Metabolic Strategy for Enhancing Physiological and Cognitive Resilience*
62. Alzheimer’s Disease International (ADI) Conference (Puerto Rico, May 2014); *Medium Chain Triglycerides and Ketone Supplementation for Alzheimer’s Disease*
63. Institute for Human and Machine Cognition (IHMC, Pensacola, FL: April 2014): Evening Lecture Series entitled: *Metabolic Therapies: Therapeutic Applications and Practical Implementation*
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**Personal Online Resources**

Academia: <https://usf.academia.edu/DominicDAgostino/Papers>

Research Gate: <https://www.researchgate.net/profile/Dominic_DAgostino>

Linked In: <https://www.linkedin.com/pub/dominic-d-agostino/b/14/156>

RESEARCHER ID: I-6196-2012: <http://www.researcherid.com/rid/I-6194-2012>

Company Website: [KetoneTechnologies.com](https://ketonetechnologies.com/)

Nutrition Outreach: [KetoNutrition.org](https://www.ketonutrition.org/)

**Research Interests**

Epilepsy and other Seizure Disorders (EEG), Central Nervous System Oxygen Toxicity (seizures), Electrophysiology (Intracellular and Extracellular), Physiology of Extreme Environments (Space, Undersea Medicine), Brain and Metastatic Cancer, Alzheimer’s Disease, Wound Healing, Hyperbaric Oxygen Therapy, Atomic Force Microscopy (Biological applications), Confocal Microscopy, Ketogenic Diet Therapies, including Exogenous Ketones, Inborn Errors in Metabolism, Glucose Transporter Type 1 Deficiency Syndrome Therapies, Kabuki Syndrome, Angelman’s Syndrome, Metabolic-Based Drugs, Repurposing Drugs

**Technical Expertise**

Atomic Force Microscopy (AFM); laser scanning confocal microscopy, engineered nutrition, intragastric gavage, cardiac puncture, metabolite measurements, metabolomics studies, peroxidation assays, spectrophotometric assays, electrophysiology, whole-cell/perforated-patch, intracellular recording with sharp microelectrodes; immunohistochemistry; fluorescence/light microscopy; ratiometric fluorescence imaging of reactive oxygen species (ROS), reactive nitrogen species (RNS), pHi, intracellular Ca, Live/Dead cell analysis, polarographic measurements of PO2; and hyperbaric/hypobaric technology, behavioral testing, ELISA assays, validating and testing equipment and techniques under hyperbaric conditions

**outreach**

1. 2010-2017: Big Brothers Big Sisters (BBBS) of Tampa Bay Mentor (James Tyler: 2-9hrs/month service): <http://www.bbbstampabay.org/Default.aspx?navigationid=2>
2. 2009-Present: TIME 4:13 Mission; (nonprofit 501c3); (missions: Mexico, Honduras, Haiti, West Virginia, local)
3. 2010-Present: Humane Society of Tampa Bay (registered dog and cat foster parent) <http://humanesocietytampa.org/>
4. 2011-2014: Metropolitan Ministries (homeless count and relocation, fund raising): http://www.metromin.org/
5. 2010-2011: Lifelink Organization (awareness and fund raising events for organ donation) <http://www.lifelinkfound.org/>
6. 2010-2012: Florida Blood Services (fund raising events) <http://www.oneblood.org/>
7. 2012-Present: Winning the Fight Against Neurodegenerative Diseases; (nonprofit 501c3) (scientific board, fund raising) <http://www.winningthefight.net/>
8. 2013-Present: Manta Pacific Foundation: <http://www.mantapacific.org/#!volunteers/c231k>

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**Other certifications, Interests**

SCUBA (PADI, advanced), First Aid, CPR, AED, DAN O2 Delivery, Wreck Diver; Rescue Diver (PADI), Saturation Diver (NASA NEEMO 22), Scientific Research Diver (NASA NEEMO 23)

**References**

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