



CALIFORNIA
TABLE GRAPE
COMMISSION

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Funded Health Research Studies 1999–2019

As of October 2019

Heart Health

1. *Vasoprotective Effects of a Standardized Grape Product*, John Bauer, Ohio State University
2. *Grapes and Cardioprotection*, Dipak Das, University of Connecticut
3. *Reduction of Myocardial Ischemia Reperfusion with Regular Consumption of Grapes*, Dipak Das, University of Connecticut
4. *Anti-Atherogenic Activity of Grapes in Hypercholesteremic Transgenic Mice*, Kathryn McMahon, Texas Tech University of Health Sciences Center
5. *Favorable Effects of Grapes on LDL Oxidation and Atherosclerotic Lesions. Studies in Ovariectomized Guinea Pigs, a Model for Menopause*, Maria Luz Fernandez, University of Connecticut
6. *Prevention of Atherosclerosis by Standardized Grape Preparation: Mechanistical Studies in Cell Culture, Atherosclerotic Mice and Humans*, Bianca Fuhrman, Lipid Research Lab, Rambam Medical Center, Israel
7. *Cardioprotective Effects of Grape Polyphenols in Pre- and Post-Menopausal Women*, Maria Luz Fernandez, University of Connecticut
8. *Cardioprotection by Resveratrol and Freeze-Dried Grape Preparation*, Joseph M. Wu, New York Medical College
9. *Grape Antioxidant Impact on Heart Failure Pathogenesis*, Steven Bolling, University of Michigan
10. *Effects of Resveratrol and/or Grape Powder on Estrogen Dependent Modulation of Lesion Area in a Rodent Model for Atherosclerosis and Restenosis*, Tammy Dugas, Louisiana State University
11. *Effects of Freeze-Dried Table Grape Powder on Vascular Health in Post-Menopausal Women*, Carl Keen, University of California, Davis
12. *Effects of Grape Consumption on Resistance Artery Structure, Function, and Stiffness in Hypertension*, Dr. Hope Anderson, University of Manitoba
13. *The Short Term Effects of Grape Consumption on the Microvasculature in Prediabetic and Diabetic Individuals*, Mary Lott, Pennsylvania State University Heart and Vascular Institute

14. *Does Grape Ingestion Improve Coronary Vascular Regulation in CAD Patients After Coronary Artery Bypass Graft Surgery in Humans?* Kevin Monahan, Pennsylvania State University Heart and Vascular Institute
15. *Effects of Whole Grape Powder on Cardiovascular Disease Risk Factors, Cognitive Function and Emotional Status in Postmenopausal Women*, Sheau Ching Chai, University of Delaware
16. *Effects of a Standardized Freeze-dried Grape Powder on HDL Function in Metabolic Syndrome*, Christopher Blesso, University of Connecticut
17. *Cardioprotective Effects of Freeze Dried Grape Powder Supplementation on Blood Pressure and Plasma Lipids/Lipoproteins: A Pilot Study*, Ann Skulas-Ray, University of Arizona

Diabetes/Glucose Tolerance/Metabolic Syndrome

1. *Grape-Enriched Diets Reduce Metabolic Syndrome in Rats*, Stephen Bolling, University of Michigan
2. *A Comprehensive Evaluation of the Protective Effects of Grape Polyphenols Against Dyslipidemias, Hypertension, Inflammation, Oxidative Stress and Vasoconstriction in Male Subjects Classified with Metabolic Syndrome*, Maria Luz Fernandez, University of Connecticut
3. *Differential Effects of Grape Powder and Its Extract on Glucose Tolerance and Chronic Inflammation in High-Fat-Fed Obese Mice*, Michael McIntosh, University North Carolina at Greensboro
4. *Stimulation of GLP-1 Levels by Grapes: a Novel Approach for Improving Glucose Control in Prediabetes*, Andrew Neilson, Virginia Tech
5. *Consumption of Whole Grape Powder by Mice Fed a High Fat Western-style Diet Protects Against Metabolic Syndrome Symptoms and Produces Improved Metabolomic and Physiological Profiles*, Neil Shay, Oregon State University
6. *Potential Modulatory Effect of Whole Grapes on Second-Meal Tolerance in Obese Subjects: Role of Polyphenols*, Jara Perez-Jimenez, Institute of Food Science, Technology and Nutrition, Spanish Research Council

Eye Health

1. *Age-Related Blindness: Possible Prevention or Delay by Grape Powder*, Silvia Finneman, Weill Medical College
2. *Neuroprotection in Age-Related Macular Degeneration (AMD) by Grape Extract*, Baerbel Rohrer, Medical University of South Carolina
3. *Grape Consumption Prevents Age-Related Blindness: Optimizing Course of Therapy and Identifying Target Organelles*, Silvia C. Finneman, Fordham University
4. *Investigation of Grape Consumption as Therapy for Preserving Vision*, Abigail Hackam, University of Miami
5. *Grape Consumption Activates the Notch Pathway to Reduce Pathological Angiogenesis*, Arthur Polans, University of Wisconsin

6. *Using Grapes as a Magic Bullet to Fight Against Free Radicals in the Eye: Application to Cataract Prevention*, Hongli Wu, North Texas Eye Research Institute
7. *Role of Grapes in DJ-1 Regulation of Oxidative Stress: Implications to Age-Related Macular Degeneration*, Vera Bonilha, Cleveland Clinic Foundation/The Cole Eye Institute

Cancer

1. *Evaluation of Cancer Chemoprevention Potential of Standardized Grape Extract (Lung and breast cancer models)*, John M. Pezzuto, University of Illinois at Chicago
2. *Inhibition of Metalloproteinase Gene Expression by Extract of Fresh Grapes*, Constance Brinkerhoff, Dartmouth Medical School
3. *Evaluation of Cancer Chemoprevention Potential of Standardized Grape Extract (Animal models colon and prostate cancer)*, John M. Pezzuto, University of Illinois at Chicago
4. *Oral Administration of Freeze-Dried Powder to Prevent Photodamage to Skin*, Donald Godwin, University of New Mexico Health Sciences Center
5. *Inhibition of Different Stages of Skin Carcinogenesis with Freeze-Dried Grape Powder*, Margaret Hanausek, AMC Cancer Research Center
6. *The Protective Effect of Standardized Grape Preparation Against Cancer/Anticancer Activity of Grape and Grape Skin Extracts Combined with Catechins Based on Inhibition of tNOX and Growth of HeLa Cells in Culture and 4T1 Mouse Mammary Tumors in Mice*, Dorothy Morre, Purdue University
7. *Inhibition of PhIP-DNA Adduct Formation in Female F344 Rats by Dietary Freeze-Dried Grape Powder*, Herman Schut, Medical College of Ohio
8. *Interactive and Synergistic Effects of Grape Powder, Grape Seed Proanthocyanidins, Resveratrol, and Quercetin in a Colon Cancer Model*, Jerry Exon, Holm Research Center, University of Idaho
9. *Effects of Freeze-Dried Powder on WNT Signaling and Colon Cancer*, Randall Holcombe, University of California, Irvine
10. *Evaluation of Aromatase Inhibition Potential of Standardized Grape Powder*, Janet Olson, Mayo Clinic
11. *Chemoprevention of Esophageal Cancer with Grape Consumption: A Clinical Investigation in China*, Tong Chen, Ohio State Comprehensive Cancer Center
12. *Dietary Prevention of Photodamage in Skin with Grapes: A Human Clinical Study*, Craig Elmets, University of Alabama Birmingham
13. *Suppression of Colon Carcinogenesis by Grape Powder through Mitigation of Inflammation and Induction of Apoptosis of Colon Cancer Stem Cells in APCMin/+ Mice*, Jairam Vanamala, Pennsylvania State University
14. *Grape Powder Management in Skin Cancer*, Nihal Ahmad, University of Wisconsin
15. *The Effect of a Whole Grape Powder on Colitis-promoted Colon Tumorigenesis and Gut Microbiota*, Qing Jiang, Purdue University
16. *A Grape-Supplemented Diet for Prostate Cancer Chemoprevention*, Anait Levenson, Long Island University

Inflammation

1. *Effects of Grape Powder on Inflammation Markers in Post-Menopausal Women*, Johanna Slavin, University of Minnesota
2. *Effect of Grape Powder Supplementation on Inflammation Biomarkers in Human Volunteers*, Ishwarlal Jialal, UC Davis and Veteran's Administration Northern California Healthcare System
3. *Does Grape Consumption Have Potential to Inhibit Hyperproliferative Effects of Colon-Specific Growth Factor/Infectious/inflammatory Agents?* Pomila Singh, University of Texas Medical Branch
4. *Anti-Inflammatory Activities of Grapes in Humans at Risk for Cardiovascular Disease*, Susan Zunino, USDA ARS Western Human Nutrition Research Center
5. *Effect of Grape Powder Consumption on Fitness, Work Capacity, and Exercise-Induced Inflammation, Pain and Disability*, Patrick O'Connor, University of Georgia
6. *Multi-Organ Profiling of the Anti-Inflammatory Effects of Grape Intake*, Steven Bolling, University of Michigan
7. *Effect of Whole Grape Powder on Attenuation of Inflammatory Status in Obese Individuals*, Francene Steinberg, University of California, Davis
8. *Effects of Whole Grape Powder on NF- κ B Driven Inflammatory Signaling*, Temesgen Samuel, Tuskegee University

Brain Health

1. *Therapeutic Effect of Grape Intake in Animal Models of Neurodegeneration*, Giovanni Manfredi, Weill Medical College of Cornell University
2. *Polyphenolic Grape Constituents Increase Bioavailability of L-DOPA: Benefits in the Treatment of Parkinson's Disease*, Bao Ting Zhu, University of South Carolina
3. *Can Grapes Prevent Brain Aging?* Robert Klein, University of Kansas Medical Center Research Institute
4. *The Neuroprotective Effects of Grape Polyphenols*, Albert Sun, University of Missouri School of Medicine
5. *Protective Effects of Grape Phytonutrients in a Model of Alzheimer's Disease*, Jason Eriksen, University of Houston
6. *Are Grapes Neuroprotective in a Mouse Model of Stroke and Alzheimer's Disease?* Richard Hartman, Loma Linda University
7. *Grapes and Alzheimer's*, Edward Neafsey, Loyola University, Chicago
8. *Examining the Impact of Freeze-Dried Table Grape Powder on Brain Metabolism and Cognitive Function in Patients with Mild Cognitive Impairment*, Dr. Daniel H. Silverman, University of California Los Angeles
9. *Effect of Grape Powder on Oxidative-Stress Induced Anxiety-Like Behavior, Memory Impairment and High Blood Pressure in Rats*, Samina Salim, University of Houston¹

¹ California Table Grape Commission provided freeze-dried table grape powder, funding was not provided.

10. *Effect of Grape Powder on Ovariectomy-Induced Anxiety-Like Behavior, Memory Impairment and High Blood Pressure in Rats, Samina Salim, University of Houston*²
11. *Can Consumption of Grapes Augment Exercise-Induced Effects Against Oxidative Stress in an Aged Rodent Model of PD? Amanda Smith, Veteran's Research Foundation of Pittsburgh*
12. *Does Eating Grapes Protect White Matter from Stroke? Selva Baltan and Sylvain Brunet, Cleveland Clinic Foundation*

GI Health

1. *Prebiotic Impact of Grape Powder on GI Microbiota, Intestinal Barrier Function, and Systemic Inflammation in High Fat Fed Mice, Michael McIntosh, University North Carolina at Greensboro*
2. *Effect of Grape Consumption on the Microbiome in Healthy Subjects: A Pilot Study, Zhaoping Li, UCLA David Geffen School of Medicine*

Antioxidant Status

1. *Absorption, Metabolism, and Antioxidant Capacity of Grape Polyphenols, Ronald Prior, Arkansas Children's Nutrition Center*

Ear Health

1. *The Effects of Standardized Grape Preparation on Presbycusis, Michael Seidman, Henry Ford Health System*

Bladder and Kidney Health

1. *Protection of Urinary Bladder Function by Grape Extracts, Robert Levin, Albany College of Pharmacy*
2. *Ischemic Bladder Dysfunction: Protection by Grape Suspension, Robert Levin, Albany College of Pharmacy*
3. *Effect of H₂O₂ on Rabbit Urinary Bladder Citrate Synthase Activity in the Presence/Absence of a Grape Suspension, Robert Levin, Albany College of Pharmacy*
4. *Benefits of Grape Intake on Chronic Kidney Disease, Caigan Du, University British Columbia*

Bone and Joint Health

1. *Freeze-Dried Grape Powder as a Potential Adjuvant in the Treatment of Rheumatoid Arthritis, Srinvasa Raja, John Hopkins Hospital*

² California Table Grape Commission provided freeze-dried table grape powder, funding was not provided.

2. *Grape Consumption Improves Joint Mobility and Relieves Pain Associated with Knee Osteoarthritis*, Shanil Juma, Texas Women's University
3. *Effect of Whole Grape Powder on Inflammatory, Body Composition and Fat and Bone Serum Biomarkers in Women*, Nancy DiMarco, Texas Women's University
4. *The Effects of Grapes on Bone Health and Calcium Metabolism in a Rat Model of Postmenopausal Osteoporosis*, Connie Weaver, Purdue University
5. *Will Grape Powder Inhibit Features of Rheumatoid Arthritis?* Du Soung, Columbia University
6. *Bone Response to Dietary Enrichment with Grape Powder and Probiotics*, Cynthia Blanton, Idaho State University
7. *Effects of Grape Consumption on Infection-driven Inflammation and Bone Loss*, Shuang Liang, University of Louisville School of Dentistry

Grape Powder Delivery Mechanism

1. *Characterization of Critical Physical and Mechanical Properties of Lyophilized Grape Powder Required for Patient Delivery System*, Ken Morris, University of Hawaii, Hilo