

CURRICULUM VITA

C-Y. OLIVER CHEN, PhD

ADDRESS

Antioxidants Research Laboratory
Jean Mayer USDA Human Nutrition Research Center on Aging
Tufts University
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Boston, MA 02111

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POSITION

- 2015- **Director**
Antioxidants Research Laboratory
Jean Mayer USDA Human Nutrition Research Center on Aging, Tufts University
- 2014-2015 **Associate Director**
Antioxidants Research Laboratory
Jean Mayer USDA Human Nutrition Research Center on Aging, Tufts University
- 2014- **Associate Professor**
Friedman School of Nutrition Science and Policy, Tufts University
- 2014 **Visiting Professor**
Botucatu Medical School, Sao Paulo State University, UNESP, Botucatu, Brazil
- 2013- **Scientist I**
Antioxidants Research Laboratory
Jean Mayer USDA Human Nutrition Research Center on Aging, Tufts University
- 2009-2014 **Assistant Professor**
Friedman School of Nutrition Science and Policy, Tufts University
- 2008-2012 **Scientist II**
Antioxidants Research Laboratory
Jean Mayer USDA Human Nutrition Research Center on Aging, Tufts University
- 2006-2008 **Scientist III**
Antioxidants Research Laboratory
Jean Mayer USDA Human Nutrition Research Center on Aging, Tufts University
- 2005-2006 **Research Associate**
Antioxidants Research Laboratory
Jean Mayer USDA Human Nutrition Research Center on Aging, Tufts University

EDUCATION

- 2002-04 **Post-Doctoral Associate**
Antioxidants Research Laboratory
Jean Mayer USDA Human Nutrition Research Center on Aging, Tufts University
Project: Bioavailability and antioxidant activity of polyphenols.
Advisor: Jeffrey Blumberg, PhD
- 1996-01 **PhD, Human Nutrition and Exercise**
Dept. Human Nutrition, Foods and Exercise
Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, VA
Thesis: Effect of soy isoflavones on antioxidant defense systems and lipid peroxidation in rats and humans.
Advisor: Raga Bakhiet, PhD
- 1993-95 **MS, Animal Science**
Colorado State University, Ft. Collin, CO
Thesis: Effect of dietary crude protein on tissue α -tocopherol in steers during growth.
Advisor: Cheryl Nockels, PhD
- 1987-91 **BS, Animal Science**
National Taiwan University, Taipei, Taiwan
Advisor: Tain-Fu Shen, PhD

RESEARCH EXPERIENCE

- 2001 **Molecular Biology and PCR Workshop**
New England Biolabs, Smith College
- 1999 **Graduate Computer Assistant**
Dept. Human Nutrition, Foods & Exercise
Virginia Polytechnic Institute and State University (Virginia Tech)
- 1998 **Research Assistant**
Dept. Biological Engineering
Virginia Tech
Project: The application of useless soy hull in production of gelatin
Advisor: Foster Agblevor, PhD
- 1997-98 **Research Assistant**
Dept. Psychology
Virginia Tech
Project: Social-cognitive determinants of nutrition behavior among supermarket food shoppers
Advisor: Richard Winett, PhD
- 1997 **Graduate Research Assistant**
Dept. Human Nutrition, Foods & Exercise

Virginia Tech

Project: Effect of acute strenuous exercise on antioxidant enzyme activity and plasma genistein in rats supplemented with genistein

Advisor: Raga Bakhiet, PhD

1989-91

Research Assistant

Dept. Animal Science

National Taiwan University

Project: The effect of different feeds on development of digestive enzymes in small intestine and pancreas in piglets

Advisor: Tain-Fu Shen, PhD

1988-89

Research Assistant

Dept. Animal Science National Taiwan University

Project: Effect of B vitamins on the growth of duck fetus

Advisor: Tain-Fu Shen, PhD

RESEARCH FUNDING

Title: **Dietary antioxidants, aging and oxidative stress status**

Role: Co-Investigator (0.50 FTE); J. Blumberg (PI)

Sponsor: ARS/USDA

Status: 10/01/14-09/30/19

Title: **The effect of redox status on bioavailability of ubiquinone and ubiquinol in older adults**

Role: Principle Investigator (0.15 FTE)

Sponsor: Kaneka Corporation

Status: 10/01/15-09/30/16

Title: **The effect of daily consumption of almonds on cognitive function in older adults**

Role: Co-Investigator (0.15 FTE)

Sponsor: Almond Board of California

Status: 10/01/15-09/30/17

Title: **Evaluation of Microbiome Changes with Exercise and Diet**

Role: Principal Investigator (0.08 FTE)

Sponsor: Uniform Services University

Status: 06/01/15-05/31/17

Title: **Microbiota diversity and composition and polyphenol bioavailability: a controlled feeding trial with a plant free diet containing whole cranberry powder**

Role: Principal Investigator (0.10 FTE)

Sponsor: Cranberry Institute

Status: 07/01/15-06/30/16

Title: **Avenanthramide Phase II metabolites in Plasma of Healthy Older Adults**

Role: Principal Investigator (0.15 FTE)

Sponsor: PepsiCo
Status: 09/01/14-04/30/15

Title: **The antioxidant, anti-inflammatory, and anti-carcinogenic effects of nano-curcumin colloid compared to curcumin powder in human epithelial colorectal adenocarcinoma cells**

Role: Principal Investigator (0.10 FTE)
Sponsor: AISIN SEIKI Co., Ltd. Japan
Status: 06/01/14-05/31/15

Title: **A randomized, acute, placebo-controlled, double-blind, crossover trial to investigate the effects of orange pomace consumption on postprandial glycemic responses in healthy men**

Role: Principal Investigator (0.15 FTE)
Sponsor: PepsiCo
Status: 02/01/14-06/30/15

Title: **Effect of dark chocolate and almonds on antioxidant status and biomarkers of oxidative stress**

Role: Principal Investigator (0.10 FTE)
Sponsor: Almond Board of California
Status: 04/01/13-12/31/14

Title: **Biological functions of rice bran on metabolic syndrome: a randomized cross-over pilot study**

Role: Principal Investigator (0.10 FTE)
Sponsor: Rural Development Administration, South Korea
Status: 04/01/13-12/31/14

Title: **A multicenter, double-blind, randomized, placebo-controlled trial to assess the effects of a cranberry beverage on women with recent history of urinary tract infection**

Role: Principal Investigator (0.05 FTE)
Sponsor: Ocean Spray Cranberries Inc.
Status: 03/01/13-10/31/15

Title: **Effect of whole wheat on the development of metabolic syndrome in Wistar rats fed a cafeteria diet**

Role: Principal Investigator (0.20 FTE)
Sponsor: Mondelez Inc.
Status: 11/01/12-12/31/14

Title: **Long-term effect of a cranberry beverage on urinary anthocyanin status and LDL oxidation in moderately hypercholesterolemic overweight/obese adults: A randomized, double-blind, placebo-controlled clinical trial**

Role: Principal Investigator (0.05 FTE)
Sponsor: Ocean Spray Cranberries Inc.
Status: 09/01/12-07/31/13

Title: **The influence of microbial metabolites of polyphenols on innate immunity**

Role: Principal Investigator, Cancer Research Cluster Cell Culture Group
Sponsor: HNRCA pilot grant program
Status: 07/01/12-06/30/13

Title: **Evaluation and screening of pistachio extracts for UV photoprotection and skin health in a 3-dimensional human skin equivalent tissue model**

Role: Principal Investigator (0.10 FTE)
Sponsor: American Pistachio Growers
Status: 07/01/12-06/30/14

Title: **Assessment of proanthocyanidins and their fecal fermentation-derived phenolic acids using LC-MS/MS**

Role: Principal Investigator
Sponsor: Department of Defense, US Army
Status: 05/01/12-04/30/14

Title: **The effect of consumption of avocado daily for 6 months on cognitive function in older adults**

Role: Co-Investigator (0.10 FTE); Elizabeth Johnson (PI)
Sponsor: Hass Avocados Board
Status: 04/01/12-03/31/14

Title: **The effect of consumption of 2 eggs or 4 oz of egg substitute daily for 6 months on cognitive function in older adults**

Role: Co-Investigator (0.05 FTE); Elizabeth Johnson (PI)
Sponsor: Egg Nutrition Center/American Egg Board
Status: 10/01/11-06/30/13

Title: **The effect of chronic consumption of a cranberry beverage on inflammation and oxidative stress in healthy but overweight/obese subjects: A randomized clinical trial**

Role: Co-Principal Investigator (0.10 FTE); Diane McKay (Co-PI)
Sponsor: Ocean Spray Cranberries Inc.
Status: 12/01/11-06/30/13

Title: **Urinary proanthocyanidin (PAC) A2 as a biomarker of compliance to intake of cranberry products – A pilot study**

Role: Principal Investigator (0.10 FTE)
Sponsor: Cranberry Institute
Status: 02/01/12-09/30/13

Title: **Assessment on antioxidant activity and phytochemical composition of whole wheat products**

Role: Principal Investigator (0.10 FTE)
Sponsor: Kraft Foods
Status: 10/15/11-10/14/12

Title: **Quality of eggs produced from hens fed with distiller's dried grains with solubles**

Role: Principle Investigator (0.05 FTE)

Sponsor: Illinois Corn Marketing Board
Status: 08/01/11-09/30/12

Title: **The effect of whole almonds on glucoregulation, endothelial function, inflammation, lipid profile, and oxidative stress in Chinese patients with type 2 diabetes mellitus**

Role: Principal Investigator (0.20 FTE)

Sponsor: Almond Board of California

Status: 07/01/11-12/31/14

Title: **The effect of eggs on postprandial metabolism: A randomized, controlled crossover pilot study in older, overweight adults**

Role: Co-Investigator (0.05 FTE); D. McKay (PI)

Sponsor: Egg Nutrition Center/American Egg Board

Status: 02/01/11-01/31/12

Title: **Clinical assessment of barley and oat phytochemicals: Pharmacokinetic bioavailability and bioactivity “beyond cholesterol”**

Role: Co-Principal Investigator (0.15 FTE); J. Blumberg (Co-PI)

Sponsor: The Kellogg Company

Status: 09/01/10-06/30/12

Title: **Improving blood lipid profiles with a cranberry extract drink**

Role: Principal Investigator (0.10 FTE)

Sponsor: Ocean Spray Cranberries, Inc. (subaward through Winona State University)

Status: 02/01/11-01/31/12

Title: **Evaluation of bioactivity time course post-compliance of high antioxidant spice blend**

Role: Principal Investigator (0.05 FTE)

Sponsor: McCormick Science Institute (subaward through Pennsylvania State University)

Status: 06/01/10-05/31/11

Title: **The cytotoxicity of pistachio phytosterol oxides in a cell culture model**

Role: Principal Investigator (0.25 FTE)

Sponsor: Paramount Farms

Status: 02/01/10-01/31/11

Title: **Antioxidant activity of antioxidants in common fruit juices**

Role: Principal Investigator (0.05 FTE)

Sponsor: POM Wonderful LLC.

Status: 04/01/09-09/30/10

Title: **The photoprotective effect of almond extracts and constituents in a 3-dimensional model of human skin in vitro**

Role: Principal Investigator (0.30 FTE)

Sponsor: Almond Board of California

Status: 05/01/09-04/30/12

Title: **Bioavailability of flavonoids and phenolic acids from cranberry juice cocktail in healthy older adults**
Role: Co-investigator (0.10 FTE); J. Blumberg (PI)
Sponsor: Ocean Spray Cranberries, Inc.
Status: 06/01/08-05/30/09

Title: **The role of soy isoflavones on skeletal muscle mitochondrial biogenesis and oxidative metabolism**
Role: Principal Investigator (0.20 FTE)
Sponsor: HNRCA Pilot Grant Initiative
Status: 07/01/08-06/30/09

Title: **Anti-inflammatory effect of whole almonds in type 2 diabetic patients**
Role: Principal Investigator (0.10 FTE)
Sponsor: Almond Board of California
Status: 07/01/08-06/30/09

Title: **Bioavailability of phytochemicals from black beans and Angelica Keiski in healthy older adults**
Role: Co-investigator (0.10 FTE); K-J. Yeum (PI)
Sponsor: The Rural Development Administration of the Republic of Korea
Status: 06/01/07-12/31/09

Title: **Flavonoid profiles of California almonds harvested from 3 regions, 2005-2007**
Role: Principal Investigator (0.30 FTE)
Sponsor: Almond Board of California
Status: 09/01/07-08/30/09

Title: **A rodent model for testing an intergenerational effect of maternal “Western” Diets on obesity phenotypes in their offspring: The effect of flavonoids from almond skins and soy**
Role: Principal Investigator (0.10 FTE)
Sponsor: Almond Board of California
Status: 06/01/07-05/31/08

Title: **The effects of almond consumption on cardiovascular risk factors in young male smokers**
Role: Principal Investigator (0.30 FTE)
Sponsor: Almond Board of California
Status: 05/01/06-04/30/07

Title: **High-throughput in vitro screening of botanical products for antioxidant capacity and bioactivity**
Role: Co-investigator (0.10 FTE); J. Blumberg (PI)
Sponsor: NCCAM/NIH
Status: 07/01/05-06/30/07

Title: **Dietary antioxidants, aging and oxidative stress status**
Role: Co-Investigator (0.50 FTE); J. Blumberg (PI)

Sponsor: ARS/USDA
Status: 10/01/04-09/30/09

Title: **Mechanisms of almond polyphenols in enhancing the resistance of human low density lipoprotein cholesterol against oxidation**

Role: Principal Investigator (0.25 FTE)

Sponsor: Almond Board of California

Status: 08/01/04-07/31/05

Title: **Pilot human study of the bioavailability, antioxidant capacity, and interactions between flavonoids and N-acetylcysteine administered in a beverage**

Role: Co-investigator (0.05 FTE); J. Blumberg (PI)

Sponsor: The Estee Lauder Companies

Status: 12/01/03-12/31/05

Title: **Endothelial assessment of risk from lipids in youth (EARLY) trial**

Role: Co-investigator; M. Engler (PI)

Sponsor: NHLBI/NIH

Status: 04/01/01-12/31/05

TEACHING EXPERIENCE

2014- **Lecturer**
NUTR321: Dietary Antioxidants and Degenerative Diseases

2010- **Lecturer**
NUTR371: Nutritional Biochemistry and Physiology

1999-2000 **Graduate Teaching Assistant**
HNFE 1004 Foods and Nutrition
Virginia Tech

1997-99 **Mentor of Summer Scholars**
Minority Internship Program
Virginia Tech

1987-1991 **Tutor**
Middle school students
Taipei, Taiwan

MENTORING

I. BS Students

2013	Yu-Shan Chen	National Taiwan University, Taiwan
2013	Elizabeth B Card	Tufts University
2013	Miles Clark	Northeastern University
2011	Jamie Foss	Northeastern University
2011	Yi-Hsuan (Lisa) Liu	Taipei Medical University, Taiwan

2010	Nyssa Bryant	University of Maryland, College Park
2009-10	Nida Kahn	University of Massachusetts, Lowell
2004-5	Eleana Pham	Simmons College
2004-5	Nina Soares	Tufts University
2004	Miguel Bortellini	Universidade Federal de Uberlândia, Brazil
2003	Yvonne Chan	University of Massachusetts, Amherst

II. MS students

2014-15	Jordan Haddock	Tufts University
2013	Joseph Holloway	Tufts University
2013	Kiley M Albrecht	Tufts University
2011	Annie J Roe	Tufts University
2010-11	Kristin A Roynesdal	Tufts University
2010	Julie A Tomanio	Tufts University
2010	Jacqueline Minichiello	Tufts University
2009-	Alison Kamil	Tufts University
2009	Ya-Yen Chen	Taipei Medical University, Taiwan
2009-	Kenneth Racicot	Tufts University
2009	Camilla Peach	Tufts University
2006-8	Chia-Ming Chen	Taipei Medical University, Taiwan
2006-7	Yen-Hua Liu	Taipei Medical University, Taiwan
2006	Yoon-Suk Cho	Yonsei University, Korea
2003-4	Amy Kearns	University of Massachusetts, Amherst
2002-4	Jian Shen	Tufts University
2002-4	Bina Albuquerque	Tufts University
2002-3	Yasmin Gharrahi	Tufts University
2002-3	Jounghee Lee	Tufts University
2001-2	Catherine Kim	Tufts University

III. PhD students

2013-	Emily S. Mohn	Tufts University
2012-	Kenneth Racicot (Chair)	Tufts University
2011-14	Alison Kamil (Chair)	Tufts University (Current affiliation: PepsiCo)
2008-11	Julie Evans	Tufts University
2002-05	Clement Ameho	Tufts University (Current affiliation: PepsiCo)

IV. Research Technicians

2015-	Jordan Haddock
2014	Richard Madden, MS
2014	Xiaobai Ren, PhD
2014-	Jason Walsh, PhD
2012-2014	Daniel A Polasky, BS
2012-2012	Zhenhua Sun, PhD
2011-2011	Jun Zhong, BS
2010-2012	Kendra French, BS
2009-2013	Carly Zampariello, MS

2006-10 Desiree Kelly, BS
 2005-07 Kendra Hamel, MS
 2004-06 Aasam Kahn, BS
 2002-05 Ting Li, MS
 2001-09 Jennifer O'Leary, BS

V. Postdoctoral Fellow

2007-10 Bradley Bolling, PhD (Current affiliation: University of Wisconsin, Madison)

VI. Visiting Scientists

2015 Jose Rodríguez Morató, MS
 Neurosciences Research Program, Human Pharmacology and Clinical
 Neurosciences Research Group, IMIM, Barcelona, Spain

2015- Sérgio Marques Costa, PhD
 Instituto de Biociências at Universidade Estadual Paulista Júlio de Mesquita
 Filho (UNESP), Botucatu, Sao Paulo, Brazil

2015- Klinsmann Carolo dos Santos, MS
 Botucatu Medical School, Sao Paulo State University, Botucatu, Sao Paulo,
 Brazil

2014- Kun Liu, PhD
 Hebei University of Economics & Business, Hebei, China

2014- Qianru Chen, MS
 Ocean University of China, Qingdao, China

2014- Isabela Martins, MS
 University of Campinas (UNICAMP), Sao Paulo, Brazil

2014 Mariana Gobbo Braz, PhD
 Sao Paulo State University, UNESP, Botucatu, Sao Paulo, Brazil

2014 Lorena Carvalho, MD
 Sao Paulo State University, UNESP, Botucatu, Sao Paulo, Brazil

2014- Xiaoyong Wei, Professor
 Guangzhou University of Chinese Medicine, Guangzhou China

2013 Ezgi Ozcan, MS Candidate
 Food Engineering Department, Yeditepe University, Istanbul, Turkey

2013 Ana Elena Quirós Saucedo, PhD Candidate
 Centro de Investigacion y Desarrollo, Mexico

2012-2013 Yuntao Liu, PhD Candidate
 Jiangnan University, Wuxi, China

2012 Hugo Palafox-Carlos, PhD Candidate
 Centro de Investigacion y Desarrollo, Mexico

2012 Matti Marklund, PhD
 Sveriges Lantbruksuniversitet, Uppsala, Sweden

2011-12 Naoto Hashimoto, PhD
 NARO Kyushu Okinawa Agricultural Research Center, Kuimamoto, Japan

2011 Aida Serra Maqueda, PhD Candidate
 Dept Tecnología de Alimentos, University of Lleida, Lleida, Spain

2011 Miren Gómez-Juaristi, PhD Candidate
 Dpto. Metabolismo y Nutrición, ICTAN - Instituto del Frío. CSIC, Spanish
 National Research Council, Madrid, Spain

2010-11 Yuxiao Zou, PhD Candidate
Institute Guangdong Academy of Agricultural Sciences, China

2008 Lirong Shen, PhD
Zhejiang University, China

2006-07 Xudong Jia, PhD
Chinese Center of Disease Control, Beijing, China

2005-06 Shin-Kyo Chung, PhD
Kyungpook University, Korea

2004-05 Ray-Yu Yang, PhD
The World Vegetable Center, Shanhua, Tainan, Taiwan

HONORS & AWARDS

2012 Mary Swartz Rose Young Investigator Award, American Society for Nutrition

2008 Most frequent reviewer for the *Journal of Agricultural and Food Chemistry*

2001 Mark Bieber Award for Best Paper, IFT Nutrition Division Graduate Paper Competition

2001 Outstanding Graduate Student Award, Virginia Tech

2001 Outstanding Teaching Assistant Nomination, Virginia Tech

2000 Third Place, IFT Nutrition Division Graduate Paper Competition

2000 Hepler Research Fellowship, Virginia Tech

2000 Travel Fund Award, Virginia Tech

1999 James Moran Memorial Award, Virginia Tech

PROFESSIONAL MEMBERSHIPS

2006- American Chemical Society

2006- American Society for Nutrition

1997-2001 Kappa Omicron Nu Honor Society

PROFESSIONAL ACTIVITIES

2014- Member, HNRCA Equipment Committee

2014- Member, HNRCA Safety Committee

2014 Chair, Minisymposium: Medical Nutritio: nutrition and inflammation, Experimental Biology 2014, San Diego

2013- Scientific Consultant, Brunswick Labs.

2013- Member, Tufts Institutional Animal Care and Use Committee (IACUC)

2012-2013 Organizing Committee, the 4th Annual Conference of the American Council for Medicinally Active Plants

2012- Scientific Consultant, Sialix Inc.

2011- Steering Committee, Cancer Research Cluster, HNRCA

2011 Expert Panel, American Institute of Biological Science
Nutritional Sustainment of Military Operational Health

2008 Expert Panel, American Institute of Biological Science
Effect of Quercetin on Human Health, Physical and Cognitive Performance

Editorial Boards

2015- *Journal of Food Chemistry and Nanotechnology; SM Journal of Endocrinology and Metabolism; Journal of Advanced Nutrition and Human Metabolism (Associate Editor); Nutrition & Dietetics (Associate Editor); Nutrients*
 2014- *Advances in Chemistry; Journal of Endocrinology, Diabetes & Obesity; Austin Journal of Nutrition & Metabolism; Journal of Nutrition & Food Science*
 2011- *Vitamins & Minerals; Journal of Nutritional Disorders & Therapy*
 2010- *World Journal of Clinical Oncology; Journal of Blood Disorders & Transfusion*
 2008- *The Open Aging Journal; Recent Patents on Food, Nutrition & Agriculture*

Journal Peer Reviewer

2015- *Journal of Herbal Medicine; BioMed Research International; PLOS ONE*
 2013- *Experimental Dermatology; Food Analytical Methods; Nutrition & Metabolism; Analytical and Bioanalytical Chemistry; Nutrition Journal*
 2012- *Hypertension; Journal of Food Science; Nutrition Research; Prostaglandins, Leukotrienes & Essential Fatty Acids; Free Radical Biology and Medicine; Physiology & Behavior; Current Nutrition & Food Science*
 2011- *AAPS Journal; American Journal of Clinical Nutrition*
 2010- *Rejuvenation Research; Journal of Food; British Journal of Nutrition; Diabetes, Obesity and Metabolism; Journal of Food Biochemistry; British Journal of Clinical Pharmacology; Talanta; Open Longevity Science*
 2009- *Journal of Medicinal Food; Journal of American College of Nutrition; Food and Chemical Toxicology; Medicine & Science in Sports & Exercise; Innovative Food Science and Emerging Technologies*
 2008- *International Journal of Food Science and Nutrition; Molecular Nutrition and Food Research; Biochimica et Biophysica Acta*
 2007- *Atherosclerosis; Brazilian Journal of Medical and Biological Research; British Journal of Pharmacology; Cancer Chemotherapy and Pharmacology; European Journal of Lipid Science and Technology; Evidence Based Complementary and Alternative Medicine; Environmental Toxicology and Pharmacology; Metabolism; Obesity*
 2006- *Bioresource Technology; European Journal of Nutrition; Journal of Nutrition*
 2005- *Journal of Applied Physiology; Nutrition and Cancer*
 2004- *Journal of Agricultural Food and Chemistry*

Grant Peer Review

2013 Military Operational Medical Research Program (RAD 3), Department of Defense, US
 2013 INTER Programme, Luxembourg National Research Fund
 2012 INTER Programme, Luxembourg National Research Fund
 2012 Nutrition Obesity Research Center, University of Alabama at Birmingham
 2012 Seed Grant Program, Tufts Collaborates!
 2010 Pilot Grant Program, HNRCA/Tufts
 2010 Maryland Industrial Partnerships Program, University of Maryland
 2009 Food for Health Research Theme program, OMAFRA/University of Guelph, Canada
 2007 New Directions Research Program, Ontario Ministry of Agriculture, Food and Rural Affairs, Canada
 2006- National Medical Research Council, Singapore
 2005 MRC Research Grants, South Africa

LEADERSHIP EXPERIENCE

- 1999-2000 **Interpreter**
Chinese Food Managers Certification Course
Virginia Cooperative Extension
- 1997-98 **President**
Chinese Student Association, Virginia Tech
- 1991-93 **Corporal**
Secretary of General, Army of Republic of China
- 1988-91 **Chair**
Extracurricular Activities, Dept. Animal Science
National Taiwan University
- 1988 **Coordinator**
60th Anniversary Celebration, National Taiwan University

PUBLICATIONS:

<http://www.ncbi.nlm.nih.gov/myncbi/browse/collection/47518066/?sort=date&direction=ascending>

Original Articles

1. **Chen C-Y**, Holtzman GI, Bakhit RM. High-genistin isoflavone supplementation modulated erythrocyte antioxidant enzymes and increased running endurance in rats undergoing one session of exhausting exercise. *Pakistan J Nutr* 2002;1:1-7.
2. Hertzler AA, **Chen C-Y**. Recipes, the internet, and nutritional guidance. *J Family Consumer Sci* 2002;94:66-9.
3. Milbury PE, **Chen C-Y**, Kwak HK, Blumberg JB. Polyphenolics from almond skins act synergistically with α -tocopherol to increase the resistance of low density lipoproteins to oxidation. *Free Radic Res* 2002;36:S1:78-80.
4. Engler MB, Engler MM, **Chen C-Y**, Malloy MJ, Browne A, Chiu EY, Kwak HK, Milbury PE, Paul SM, Blumberg J, Mietus-Snyder ML. Flavonoid-rich dark chocolate improves endothelial function and increases plasma epicatechin concentrations in healthy adults. *J Am Coll Nutr* 2004;23:197-204.
5. **Chen C-Y**, Bakhiet RM, Hart V, Holtzman GI. Isoflavone supplementation modulated erythrocyte enzymatic antioxidant defense in healthy young men undergoing 80% VO_{2pk} exercise. *Nutr Res* 2004;24:347-59.
6. **Chen C-Y**, Milbury PE, Kwak HK, Collins FW, Samuel P, Blumberg JB. Avenanthramides and phenolic acids from oats are bioavailable and act synergistically with vitamin C to enhance hamster and human LDL resistance to oxidation. *J Nutr* 2004;134:1459-66.
7. **Chen C-Y**, Bakhiet RM, Hart V, Holtzman GI. Isoflavones improve plasma homocysteine status and antioxidant defense system in healthy young men at rest but do not ameliorate oxidative stress induced by 80% VO_{2pk} exercise. *Ann Nutr Metab* 2005;49:33-41.
8. **Chen C-Y**, Milbury PE, Lapsely K, Blumberg JB. Flavonoids from almond skins are bioavailable and act synergistically with vitamins C and E to enhance hamster and human LDL resistance to oxidation. *J Nutr* 2005;135:1366-73.
9. Graf BA, Ameho C, Dolnikowski GG, Milbury PE, **Chen C-Y**, Blumberg JB. Rat gastrointestinal tissues metabolize quercetin. *J Nutr* 2006;136:39-44.

10. **Chen C-Y**, Bakhit RM. Age decreased steady-state concentrations of genistein in plasma, liver, and skeletal muscle in Sprague-Dawley rats. *Mech Ageing Dev* 2006;127:344-8.
11. Kwak H-K, Blumberg JB, **Chen C-Y**, Milbury PE. Microplate-based Oxygen Radical Absorbance Capacity (ORAC) assay of hydrophilic and lipophilic compartments in plasma. *Nutr Sci* 2006;9:48-54.
12. Milbury PE, **Chen C-Y**, Dolnikowski GG, Blumberg JB. Determination of flavonoids and phenolics and their distribution in almonds. *J Agric Food Chem* 2006;54:5027-33.
13. Cho Y-S, Yeum K-J, **Chen C-Y**, Beretta G, Tang G, Krinsky NI, Yoon S, Lee-Kim YC, Blumberg JB, Russell RM. Phytonutrients affecting hydrophilic & lipophilic antioxidant activities in fruits, vegetables and legumes. *J Sci Food Agric* 2007; 87:1096-107.
14. **Chen C-YO**, Milbury PE, Collins FW, Blumberg JB. Pharmacokinetics and antioxidant capability of oat avenanthramides in humans. *J Nutr* 2007;137:1375-82.
15. **Chen C-YO**, Milbury PE, Chung S-K, Blumberg JB. Effect of almond skin flavonoids and quercetin on human LDL and apolipoprotein B-100 oxidation and conformation. *J Nutr Biochem* 2007;18:785-94.
16. Li N, Jia X, **Chen C-YO**, Blumberg JB, Song Y, Zhang W, Zhang X, Ma G, Chen J. Almond consumption reduces oxidative DNA damage and lipid peroxidation in male smokers. *J Nutr* 2007;137:2717-22.
17. Ameho CK, **Chen C-YO**, Smith D, Sánchez-Moreno C, Milbury PE, Blumberg JB. Antioxidant activity and metabolite profile of quercetin in vitamin E depleted rats. *J Nutr Biochem* 2008;19:467-74.
18. **Chen C-YO**, Blumberg JB. The in vitro capacity of almond skin polyphenols for scavenging free radicals and inducing quinone reductase. *J Agric Food Chem* 2008;56:4427-34.
19. Rankin JW, Andreae MC, **Chen C-YO**, O'Keefe SF. Effect of raisin consumption on oxidative stress and inflammation in obesity. *Diabetes Obes Metab* 2008;10:1086-96.
20. Chen CM, Lin YL, **Chen C-YO**, Hsu CY, Shieh MJ, Liu JF. Consumption of purple sweet potato leaves decreases lipid peroxidation and DNA damage in humans. *Asia Pac J Clin Nutr* 2008;17:408-14.
21. Li L, **Chen C-YO**, Chun H-K, Cho S-M, Park K-M, Lee-Kim Y, Blumberg JB, Russell RM, Yeum K-J. A fluorometric assay to determine antioxidant activity of both hydrophilic and lipophilic components in plant foods. *J Nutr Biochem* 2009;20:219-26.
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69. Chen C-M, Li H-T, Liao Y-Y, Liu J-F, **Chen C-YO**. Effect of almonds on cardiovascular risk factors in Chinese patients with type 2 diabetes mellitus: study design. *FASEB J* 2014;28:1035.1.

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71. Kamil A, Blumberg JB, **Chen C-YO**. Development of a relevant cell culture model to examine lutein absorption in vitro. *FASEB J* 2014;28:645.12
72. Mathison B, Kimble L, McKay D, **Chen C-YO**, Blumberg JB, Kaspar K, Khoo C, Chew B. Chronic consumption of a high polyphenol content cranberry beverage improved glucoregulation and HDL cholesterol in healthy but overweight humans. *FASEB J* 2014;28:831.10.
73. Racicot K, Tanzer E, Chen C-YO. Differentiation effect on monolayer integrity and inflammatory response in Caco2 cells in vitro. *FASEB J* 2014;28:1034.11.
74. Kimble L, Mathison B, McKay D, Chen C-YO, Blumberg JB, Kaspar K, Khoo C, Chew B. Chronic consumption of a high polyphenol cranberry beverage protects against inflammation and improves endothelial function in healthy but overweight humans. *FASEB J* 2014;28:830.26.
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76. Chen C-YO, Smith A, Blumberg JB, Garlick J. Photoprotective effects of pistachio antioxidants in a 3-dimensional human skin equivalent tissue model. *FASEB J* 2015;29:922.24.
77. Chen C-YO, Smith DE, Lucio L, Braz M, Blumberg JB. Effect of whole heat on the development of Metabolic Syndrome in rats fed snack foods. *FASEB J* 2015;29:402.2
78. McKay DL, Chen C-YO, Rasmussen H, Blumberg JB. Whole eggs enhance antioxidant activity when combined with energy dense, cooked breakfast foods. *FASEB J* 2015;29:924.22.
79. McKay DL, Chen C-YO, Collins FW, Blumberg JB. Avenanthramide-enriched oats have an anti-inflammatory action: A pilot clinical trial. *FASEB J* 2015;29:922.18.
80. Kimble LL, Mathison BD, McKay DL, Chen C-YO, Walsh J, Blumberg JB, Kaspar KL, Khoo C, Chew BP. Chronic consumption of a high polyphenol content cranberry beverage improves phenolic acid and flavonoid bioavailability in healthy overweight humans. *FASEB J* 2015;29:606.11.

INVITED PRESENTATIONS

1. A nutrition and health perspective on almonds. Nutritional Society of Taiwan Annual Conference. Taichung, Taiwan. 2006.
2. Antioxidant activity and bioavailability of polyphenolics. The World Vegetable Center. Tainan, Taiwan. 2006.
3. Bioavailability and metabolism of flavonoids. National Chiayi University, Taiwan. 2006.
4. Bioavailability and antioxidant activity of almond flavonoids in hamsters and humans. National Institute for Nutrition and Food Safety, Chinese Center for Disease Control and Prevention. Beijing, China. 2006.
5. Bioavailability and bioaction of phenolics in oats (*Avena sativa* L.). Taipei Medical University. Taipei, Taiwan. 2006.
6. Almond consumption reduces oxidative DNA damage and lipid peroxidation in male smokers. Diet and Optimal Health Conference. Portland, OR. 2007.
7. Antidiabetic and antioxidant activity of almonds. International Society for Nutraceuticals and Functional Foods. Taichung, Taiwan. 2008.

8. Flavonoid distribution in nuts and seeds and research challenges. Symposium on Plant Polyphenols: Nutrition, Health and Innovations, Kuala Lumpur, Malaysia. 2009.
9. Is functional food a fad? US Army Natick Development Center, Natick, MA. 2010.
10. Bioavailability of polyphenols in cranberry juice. Ocean Spray Cranberries Inc., Lakeville, MA. 2010.
11. Effect of preharvesting and postharvesting factors on phytochemical content and antioxidant activity of almonds and pistachios. American Chemical Society Annual Meeting, Anaheim, CA. March, 2011.
12. Antioxidants in nuts. International Conference on Natural Products. Gastres, France, May, 2011.
13. The positive role of tree nuts for diabetes management. Asian Nutrition Congress, Singapore, July, 2011.
14. The health benefits of almonds beyond cholesterol reduction. American Chemical Society Annual Meeting, Denver, August, 2011.
15. The role of nuts in diabetes prevention and management. International Conference of Functional Factor, Taipei, November, 2011.
16. Food chemistry and bioavailability of polyphenols. Chung-Hsing University, Taichung, Taiwan, November, 2011.
17. Polyphenol research: From farm to pharmacokinetics and clinical evidence. China Medical University, Taichung, Taiwan, November, 2011.
18. Mechanistic studies and their contribution to nutrition science: A "flavonoid" case study. The Workshop: CRN's Day of Science. Laguna Beach, CA. October, 2012.
19. Capacity of Dietary antioxidants In Vitro and In Vivo. IFT13 Conference. Chicago. July 2013.
20. Bioactives and health benefits of California almonds. Bioactives in functional foods symposium. ILSI China Sector. Beijing, China, September 2013. In vivo and in vitro total antioxidant capacity: what are the concerns. Taipei Medical University, Taipei, Taiwan. September 2013.
21. Constituents in plant foods in diabetes prevention: a Western Perspective. International Society for Nutraceuticals and Functional Foods. Taipei, Taiwan. November 2013.
22. The role of almond bioactives in inflammatory environments. 2013 Korean Nutrition Society Annual Conference, Seoul, South Korea. November 2013.
23. Controversies in Total Antioxidant Capacity Assays. Dept. of Nutritional Science and Food Management, Ewha Womans University, Seoul, South Korea. November 7, 2013.
24. Phytochemicals: From Farm to Food to Human Health. Sericultural and Food Products Processing Research Institute, Guangdong Academy of Agricultural Sciences, Guangzhou, China. November 2013.
25. Fetal Programming of chronic disease. Institute of Animal Science, Guangdong Academy of Agricultural Sciences, Guangzhou, China. November 2013.
26. Clinical evidence on oat bioactives in cardiovascular health. American Chemical Society Annual Meeting, Dallas, TX, Spring 2014.
27. Introduction of oxidative stress biomarker. Botucatu Medical School, Sao Paulo State University, UNESP, Botucatu, Brazil, May 2014.
28. Phase II Metabolism of Polyphenols. Botucatu Medical School, Sao Paulo State University, UNESP, Botucatu, Brazil, May 2014.
29. Polyphenols and Health. Botucatu Medical School, Sao Paulo State University, UNESP, Botucatu, Brazil, May 2014.
30. The application of total antioxidant capacity assays. Botucatu Medical School, Sao Paulo State University, UNESP, Botucatu, Brazil, May 2014.

31. The Role of Phase II Metabolism in Polyphenol Bioavailability. International Meeting in Functional Foods Centro Estudiantil ITESM Campus, Monterrey México. June 13, 2014.
32. Validation of Functional Foods or Ingredients. Sericultural and Food Products Processing Research Institute, Guangdong Academy of Agricultural Sciences, Guangzhou, China. May 2015.
33. Validation of Functional Foods or Ingredients. Guangzhou University of Chinese Medicine, Guangzhou, China. May 2015.
34. Validation of Functional Foods or Ingredients. South China Agricultural University, Guangzhou, China. May 2015.
35. Almonds improve glycemic control in Chinese patients with type 2 diabetes mellitus. The 33rd International Symposium on Diabetes and Nutrition, Toronto, Canada. June 2015.
36. The Interplays Between Microbiota & Plant Bioactives. The 250th American Chemical Society National Meeting & Exposition, Boston, MA. August 2015.
37. Black Box of Polyphenols in Elucidation of Health Benefits. Institut Hospital del Mar d'Investigacions Mèdiques, Barcelona, Spain. October 2015.
38. The Role of Functional Foods in Protection of Aging Related Diseases. Agrobiotech Innovation Meeting, Biotechnology, Food and Biomass Sectors, Parque Tecnológico de Galicia. Orense, Spain. November 2015.
39. The Role of Phase I and II Pathways in Polyphenol Metabolism. The Graduate Program in Pharmacology & Experimental Therapeutics, Sackler School of Graduate Biomedical Sciences, Tufts University, December 2015.

A handwritten signature in black ink, appearing to be 'Cheng', written in a cursive style.

December 17, 2015