

# Plant Foods for Human Nutrition

Volume 67 • Number 4 • December 2012

## ORIGINAL PAPERS

### From Genotype to Apricot Fruit Quality: The Antioxidant Properties Contribution

A. Leccese · S. Bartolini · R. Viti 317

### Comprehensive Analysis of Polyphenols in 55 Extra Virgin Olive Oils by HPLC-ECD and Their Correlation with Antioxidant Activities

B. Bayram · T. Esatbeyoglu · N. Schulze · B. Ozcelik · J. Frank · G. Rimbach 326

### Betacyanin and Other Antioxidants Production During Growth of *Opuntia stricta* (Haw.) Fruits

M.R. Castellar · F. Solano · J.M. Obón 337

### Influence of Growth Stage and Season on the Antioxidant Constituents of *Cosmos caudatus*

A. Mediani · F. Abas · T.C. Ping · A. Khatib · N.H. Lajis 344

### Acute Effects of Pomegranate Extract on Postprandial Lipaemia, Vascular Function and Blood Pressure

A.S. Mathew · G.M. Capel-Williams · S.E.E. Berry · W.L. Hall 351

### Juice, Pulp and Seeds Fractionated from Dry Climate Primocane Raspberry Cultivars (*Rubus idaeus*) Have Significantly Different Antioxidant Capacity, Anthocyanin Content and Color

S.M. Snyder · R.M. Low · J.C. Stocks · D.L. Eggett · T.L. Parker 358

### Antihyperlipidemic Effect of Methanolic Extract from *Opuntia joconostle* Seeds in Mice Fed a Hypercholesterolemic Diet

O. Osorio-Esquivel · A. Ortiz-Moreno · L. Garduño-Siciliano · V.B. Álvarez · M.D. Hernández-Navarro 365

### Correlation of Rutin Accumulation with 3-*O*-Glucosyl Transferase and Phenylalanine Ammonia-lyase Activities During the Ripening of Tomato Fruit

E. Capanoglu · J. Beekwilder · A. Matros · D. Boyacioglu · R.D. Hall · H.P. Mock 371

### Plant Extracts of Winter Savory, Purple Coneflower, Buckwheat and Black Elder Activate PPAR- $\gamma$ in COS-1 Cells but do not Lower Blood Glucose in Db/db Mice *In vivo*

E. Schrader · S. Wein · K. Kristiansen · L.P. Christensen · G. Rimbach · S. Wolffram 377

### Chemical Composition and Anti-inflammatory Properties of the Unsaponifiable Fraction from Awara (*Astrocaryum vulgare* M.) Pulp Oil in Activated J774 Macrophages and in a Mice Model of Endotoxic Shock

E. Bony · F. Boudard · E. Dussossoy · K. Portet · P. Brat · J. Giaimis · A. Michel 384

### Antihyperlipidemic and Antitumor Effects of Chickpea Albumin Hydrolysate

Z. Xue · J. Gao · Z. Zhang · W. Yu · H. Wang · X. Kou 393

### Effect of Freezing Technology and Storage Conditions on Folate Content in Selected Vegetables

M. Czarnowska · E. Gujska 401

### Supercritical Fluid Extraction of Phenolic Compounds and Antioxidants from Grape (*Vitis labrusca* B.) Seeds

K. Ghafoor · F.Y. AL-Juhaimi · Y.H. Choi 407

### Influence of Red Pepper Spice and Turmeric on Inflammation and Oxidative Stress Biomarkers in Overweight Females: A Metabolomics Approach

D.C. Nieman · L. Cialdella-Kam · A.M. Knab · R.A. Shanely 415

### Cytotoxic Effect of Natural *trans*-Resveratrol Obtained from Elicited *Vitis vinifera* Cell Cultures on Three Cancer Cell Lines

F. Fernández-Pérez · S. Belchí-Navarro · L. Almagro · R. Bru · M.A. Pedreño · L.V. Gómez-Ros 422

### Impact of Thermal Processing on Legume Allergens

A.K. Verma · S. Kumar · M. Das · P.D. Dwivedi 430

### Antioxidant Capacity and Antimutagenic Activity of Anthocyanin and Carotenoid Extracts from Nixtamalized Pigmented Creole Maize Races (*Zea mays* L.)

S. Mendoza-Díaz · M.d.C. Ortiz-Valerio · E. Castaño-Tostado · J.d.D. Figueroa-Cárdenas · R. Reynoso-Camacho · M. Ramos-Gómez · R. Campos-Vega · G. Loarca-Piña 442

### High Antioxidant Activity Mixture of Extruded Whole Quality Protein Maize and Common Bean Flours for Production of a Nutraceutical Beverage Elaborated with a Traditional Mexican Formulation

C. Reyes-Moreno · O.D. Argüelles-López · J.J. Rochín-Medina · J. Milán-Carrillo · J. Rivera-López · A. Valdez-Ortiz · J.A. López-Valenzuela · R. Gutiérrez-Dorado 450