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C50 CAROTENOIDS FROM THE CHEESE-RIPENING BACTERIA ARTHROBACTER ARILAITENSIS

Daniele Giuffrida, Nuthathai Sutthiwong, Paola Dugo, Paola Donato,
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ICS Utah 2014



A Conference to Remember

The 17th International Carotenoid Symposium, being held in Park City, Utah from June 29 - July 4, is the triennial meeting of the International Carotenoid Society. This conference addresses the full spectrum of carotenoid biology and chemistry not only from "bench-to-bedside" but also from "microbes-to-mammals", bringing together the leading carotenoid researchers, young investigators, and students from academia, industry, and government for five days of intensive interactive presentations and discussions of the chemistry and physiology of carotenoids with particular emphasis on mechanisms of disease prevention from infancy to old age for these common constituents of the human diet and of widely consumed dietary supplements.

Come to Utah for ICS 2014!

The conference will be very family-friendly, so bring yours! See [Excursions and Vacations](#) to start planning a family vacation or learn about our pre and post conference trips. Start to preview the [Conference Activities](#). There will be child care available, as well as many on-site activities for family members of all ages. Public transportation is available for activities all over Park City, including shopping both at Park City's Historic Main Street and a huge nearby designer outlet mall.

Registration is still open

Advance registration fees are \$800 for attendees, this will be \$1200 for on-site registration. Advance registration for students is \$475, \$800 for on-site student registration. Students, check out how to get your special registration rate on the [Visa / Student Info](#) page before going online to register.

Abstracts for Scientific Program

Abe, Katsuya For a Poster	Composition and accumulation of free- and ester-carotenoids in the aerial microalga <i>Scenedesmus</i> sp. (Chlorophyceae) cultured under stress conditions.
Session:	Scheduled for:
Authors: Katsuya Abe Daichi Sumida Nobuhiro Aburai	
Aburai, Nobuhiro For a Poster	A new approach to carotenogenesis up-regulated using inhibitors of fatty acid biosynthesis in aerial microalgae.
Session:	Scheduled for:
Authors: Nobuhiro Aburai Katsuya Abe	
Agócs, Attila For a 15 minute talk	NEW METHODS IN THE SYNTHESIS OF CAROTENOID GLYCOSIDES
Session: Chemical Synthesis, Analysis, and Industrial Production I	Scheduled for: Tuesday, July 1
Authors: Agócs, A Hanaura, M. Deli, J. Nagy, V.	
Al-Babili, Salim For a 30 minute talk	Biosynthesis of Plant Carotenoid-Derived Signaling Molecules
Session: Biosynthesis and Metabolism II	Scheduled for: Thursday, July 3
Authors: Salim Al-Babili	
Amaya, Elkin For a 15 minute talk	THE ANTIOXIDANT ROLE OF CANTHAXANTHIN FOR CHICK DEVELOPMENT: OVERVIEW FROM PUBLISHED STUDIES WITH HENS
Session: Biosynthesis and Metabolism I	Scheduled for: Monday, June 30
Authors: AMAYA, E.	
Ambati, Ranga Rao For a Poster	THE PROTECTIVE ROLE OF ASTAXANTHIN AND ASTAXANTHIN ESTERS FROM GREEN MICROALGA-HAEMATOCOCCUS PLUVIALIS ON UV-DMBA INDUCED SKIN CARCINOGENESIS RATS: POSSIBLE MECHANISM OF ACTION
Session:	Scheduled for:
Authors: Ambati Ranga Rao H. N. Sindhuja Shylaja M. Darmesh Kadimi Udaya Sankar Ravi Sarada Gokare Aswathanarayana Ravishankar Phang Siew Moi	
Arathi, Bangalore For a 15 minute talk	UPLC-PDA AND TANDEM MASS SPECTRAL CHARACTERISTICS OF MAJOR LYCOPENE ISOMERS
Session: Chemical Synthesis, Analysis, and Industrial Production I	Scheduled for: Tuesday, July 1
Authors: Arathi, B.P. Sowmya, P.R. Dilshad, P. Saikat, B. Gopal, V. Lakshminarayana, R.	
Autenrieth, Caroline For a 15 minute talk	STRUCTURE-FUNCTION RELATIONSHIPS OF THE RHODOPIN 3,4-DESATURASE (CrtD) OF RHODOSPIRILLUM RUBRUM
Session: Biosynthesis and Metabolism II	Scheduled for: Thursday, July 3
Authors: Autenrieth, C. Ghosh, R.	
Bauerfeind, Jasmin For a Poster	Using photochemiluminescence to measure the lipophilic antioxidant capacities of carotenoid rich food products
Session:	Scheduled for:
Authors: Bauerfeind, J Hintze, V. Kschonsek, J. Killenberg, M. Böhm, V.	
Beck, Warren For a 30 minute talk	Nonradiative Decay Dynamics and Intramolecular Charge Transfer in Peridinin and The Peridinin Chlorophyll A Protein
Session: Photochemistry, Photophysics, and Photosynthesis I	Scheduled for: Monday, June 30
Authors: Ghosh, S. Roscioli, J. D. Bishop, M. M. Frank, H. A. Beck, W. F.	
Berendschot, Tos TJM For a 30 minute talk	Lutein and inflammation
Session: Carotenoids in the Eye I	Scheduled for: Monday, June 30
Authors: Berendschot TTJM Tian Y Kijlstra A	

Abstracts for Scientific Program

Berendschot, Tos TJM For a Poster	The effect of a lutein-enriched egg-beverage on visual function in early age-related macular degeneration, a randomized trial
Session:	Scheduled for:
Authors: Berendschot TTJM Kelly ER Kijlstra A van der Made SM Plat J	
Bernstein, Paul For a 30 minute talk	BIOAVAILABILITY OF A- AND B-CRYPTOXANTHIN IN SERUM, LIVER, AND OCULAR TISSUES OF JAPANESE QUAIL
Session: Carotenoids in the Eye II	Scheduled for:
Authors: Bernstein, P.S. Li, B. Vachali, P.P. Gorusupudi, A. Khachik, F.	
Bernstein, Paul For a Poster	HOW DOES THE HUMAN MACULA BECOME THE MACULA LUTEA? INACTIVITY OF HUMAN β,β -CAROTENE-9',10'-DIOXYGENASE (BCO2) UNDERLIES RETINAL ACCUMULATION OF THE HUMAN MACULAR CAROTENOID PIGMENT
Session: Carotenoids in the Eye II	Scheduled for: Friday, July 4
Authors: Bernstein, P.S. Li, B. Vachali, P.P. Gorusupudi, A. Shen, Z. Sharifzadeh, H. Besch, B.M. Nelson, K. Frederick, J.M. Baehr, W.	
Blaner, William For a 30 minute talk	CARDIAC DYSFUNCTION IN β -CAROTENE-15,15'-MONOOXYGENASE-DEFICIENT MICE IS ASSOCIATED WITH ALTERED CAROTENOID AND RETINOID METABOLISM
Session: Carotenoid Metabolism and Function I	Scheduled for: Tuesday, July 1
Authors: William S. Blaner Seung-Ah Lee Hongfeng Jiang Chad M. Trent Cynthia X. Wang Robert W. Curley Earl H. Harrison Mathew S. Maurer	
Böhm, Volker For a 30 minute talk	Lutein and zeaxanthin in patients with age-related macular degeneration: Supplement vs. oleaginous extract of kale
Session: Carotenoid Metabolism and Function II	Scheduled for: Thursday, July 3
Authors: Böhm, V. Arnold, C. Jentsch, S. Dawczynski, J.	
Bohn, Torsten For a 15 minute talk	BEFORE BIOACTIVITY THERE IS BIOAVAILABILITY - STATIC AND DYNAMIC IN VITRO MODELS FOR STUDYING CAROTENOID DIGESTION AND BIOACCESSIBILITY
Session: Carotenoid Metabolism and Function I	Scheduled for: Tuesday, July 1
Authors: Bohn, T. Corte-Real, J. Alminger, M. Aura, A.-M. Dufour, C. El, S.N. Karakaya, S. McDougall, G. Requena, T. Santos, N.S.	
BONET PIÑA, MARIA LUISA For a 30 minute talk	RETINOIC ACID AND BETA-CAROTENE EFFECTS ON ADIPOSITY
Session: Carotenoid Metabolism and Function II	Scheduled for: Thursday, July 3
Authors: Bonet, M.L. Ribot, J. Palou, A.	
Borel, Patrick For a 25 minute talk	SINGLE NUCLEOTIDE POLYMORPHISMS INVOLVED IN CHYLOMICRON METABOLISM PLAY A SIGNIFICANT ROLE IN THE INTERINDIVIDUAL VARIABILITY OF LUTEIN BIOAVAILABILITY.
Session: Epidemiology, Genetics, and Nutrition I	Scheduled for: Tuesday, July 1
Authors: Borel, P. Desmarchelier, C. Nowicki, M. Bott, R.	
Burri, Betty For a 15 minute talk	BETA-CRYPTOXANTHIN ABSORPTION AND METABOLISM
Session: Biosynthesis and Metabolism I	Scheduled for: Monday, June 30
Authors: Betty J. Burri Michael R. La Frano Tami Turner Xiao Qiu Chenghao Zhu Erik Geertz Yimeng Cai	
Canas, Jose For a 15 minute talk	EFFECT OF A 2-WEEK INTENSE LIFE-STYLE INTERVENTION PROGRAM FOLLOWED BY 6-MONTH CAROTENOID SUPPLEMENTATION ON FAT DEPOTS, ADIPONECTIN AND PALMITOLEATE: A 6-MONTH DOUBLE BLIND PLACEBO-CONTROLLED PILOT STUDY IN OBESE CHILDREN
Session: Carotenoid Metabolism and Function II	Scheduled for: Thursday, July 3
Authors: Canas, J.A Lochrie, A Galena-McGowan, A Hossain, J Schettino, C Balagopal, P	
Caris-Veyrat, Catherine For a 30 minute talk	STABILITY IN THE PRESENCE OF IRON AND ANTIOXIDANT ACTIVITY IN A MODEL OF THE GASTRO-INTESTINAL TRACT OF REFERENCE AND BACTERIAL CAROTENOIDS.
Session: Chronic Disease Prevention and Treatment I	Scheduled for: Monday, June 30
Authors: Caris-Veyrat, C. Sy, C. Borel, P. Dangles, O	

Abstracts for Scientific Program

Cazzonelli, Christopher I. For a 30 minute talk	EPIGENETIC REGULATION AND FUNCTIONS FOR CIS-CAROTENOIDS; SIGNALING MOLECULES AND PLANT DEVELOPMENT
Session: Biosynthesis and Metabolism II	Scheduled for: Thursday, July 3
Authors: Cazzonelli, C. Hou, X. Watkins, J. Holland, S. Shashikanth, M. Pogson, B.	
Cervantes, Braulio For a Poster	CAROTENOID AND CHLOROPHYLL COMPOSITION AND ANTIOXIDANT ACTIVITY OF RAW AND HEAT PROCESSED JALAPEÑO PEPPERS AT INTERMEDIATE RIPENING STAGES
Session:	Scheduled for:
Authors: Cervantes-Paz B. Ornelas-Paz J. de J.	
Chandrasekaran, Raghu For a Poster	MODULATION OF XANTHOPHYLLS IN DIATOMS BY LIGHT SPECTRUM AND INTENSITY
Session:	Scheduled for:
Authors: Chandrasekaran, R. Barra, L. Giovagnetti, V. Corato, F. Ruban, A.V. Brunet, C.	
Chew, Emily For a Plenary	LUTEIN AND ZEAXANTHIN SUPPLEMENTATION AND COGNITIVE FUNCTION TESTING IN THE AGE-RELATED EYE DISEASE STUDY 2 (AREDS2)
Session: Carotenoids in the Eye and Brain	Scheduled for: Tuesday, July 1
Authors: Chew, E. Y. Clemons, T.E. Agrón, M.A. AREDS2 Research Group	
Cichon, Morgan For a Poster	Oxidative Metabolism of Lycopene
Session:	Scheduled for:
Authors: Cichon, M. J. Riedl, K. M. Moran, N. E. Grainger, E. M. Erdman, J. W., Jr. Clinton, S. K. Schwartz, S. J.	
Clinton, Steven For a 30 minute talk	What We Know and Don't Know About Tomatoes, Lycopene, and Prostate Cancer
Session: Chronic Disease Prevention and Treatment I	Scheduled for: Monday, June 30
Authors: Clinton, S.K.	
Cogdell, Richard For a Poster	The effects of lack of carotenoids on the light harvesting complexes of three species of purple photosynthetic bacteria
Session:	Scheduled for:
Authors: Richard Cogdell Sarah Henry Lewis MacDonald Kirsty Hacking	
Corte-Real, Joana For a 15 minute talk	SETTING UP MODELS FOR STUDYING THE EFFECT OF DIETARY MINERALS ON BIOAVAILABILITY ASPECTS OF CAROTENOIDS
Session: Epidemiology, Genetics, and Nutrition II	Scheduled for: Wednesday, July 2
Authors: Joana Corte-Real Elke Richling Lucien Hoffmann Torsten Bohn	
Craft, Neal For a Poster	EXTRACTION AND NORMAL-PHASE SEPARATION OF BRAIN CAROTENOIDS AND TOCOLS
Session:	Scheduled for:
Authors: Neal E. Craft	
Deli, József For a Plenary	Isolation and analysis of carotenoids from Zechmeister till today
Session: Chemical Synthesis, Analysis, and Industrial Production	Scheduled for: Wednesday, July 2
Authors: Deli, J	
Erdman, John For a 30 minute talk	LUTEIN AND THE BRAIN; APPLICATION OF THE NON-HUMAN PRIMATE MODEL TO EVALUATE LUTEIN BIODISTRIBUTION AND EFFECTS ON BRAIN FUNCTION
Session: Brain and Cognition	Scheduled for: Tuesday, July 1
Authors: Erdman, J.W. Sweedler, J.V. Rubakhin, S.S. Johnson, E.J. Neuringer, M. Kuchan, M.J.	

Abstracts for Scientific Program

Eriksen, Jane Nygaard For a 15 minute talk	Optimized in vitro digestion system as screening tool to evaluate carotenoid accessibility – A potential model for human digestion
Session: Biosynthesis and Metabolism II	Scheduled for: Thursday, July 3
Authors: Eriksen, J. N. Dragsted, L. O. Arrigoni, E.	
Ermakov, Igor For a 30 minute talk	Optical Detection Methods for Carotenoids in Human Skin.
Session: Epidemiology, Genetics, and Nutrition II	Scheduled for: Wednesday, July 2
Authors: Ermakov, I.V. Ermakova, M.R. Sharifzadeh, M. Gellermann, W.	
Ermakov, Igor For a Poster	Optical Detection of Carotenoids in Human Bone and Surrounding Tissue.
Session:	Scheduled for:
Authors: Ermakov, I.V. Ermakova, M.R. Rosenberg, T.D. Gellermann, W.	
Ernawita, Ernawita For a Poster	EFFECT OF 1-METHYLCYCLOPROPENE ON CAROTENOIDS OF MINI TOMATOES (SOLANUM LYCOPERSICUM)
Session:	Scheduled for:
Authors: Ernawita Kélin Schwarz Volker Böhm Joelem Mastrodi Salgado Julio Marcos Melges Walder	
Ernawita, Ernawita For a Poster	COMPOSITION AND CHARACTERIZATION OF CAROTENOIDS FROM JERUK TAKENGON (Citrus nobilis Lour.)
Session:	Scheduled for:
Authors: Ernawita Volker Böhm	
Esquivel, Patricia For a Poster	CHARACTERIZATION OF CAROTENOIDS IN THE PEELS OF COFFEE (COFFEA ARABICA) VARIETIES
Session:	Scheduled for:
Authors: Patricia Esquivel María Viñas Ralf M. Schweiggert Maike Gruschwitz Eric Guevara Reinhold Carle Víctor M. Jiménez	
Esquivel, Patricia For a Poster	PROFILES AND BIOACCESSIBILITY OF CAROTENOIDS FROM RED- AND YELLOW-FLESHED MAMEY SAPOTE (POUTERIA SAPOTA) FRUITS
Session:	Scheduled for:
Authors: Patricia Esquivel Tania Chacón-Ordóñez Reinhold Carle Víctor M. Jiménez Ralf M. Schweiggert	
Fang, Nan For a Poster	Extraction, purification and partial characterization of a carotenoid binding protein (CBP) from the epidermis of the monarch butterfly larvae (Danaus plexippus)
Session:	Scheduled for:
Authors: Nan Fang Lisandra Gonzalez Khoa Pham Jaroslava Miksovaka John T. Landrum	
Focsan, Alexandrina Ligia For a 15 minute talk	CALIBRATED ELECTROCHEMICAL MEASUREMENTS OF ASTAXANTHIN AND ITS ESTERS: INSIGHT INTO THE HEALTH AND PHOTOPROTECT MECHANISMS.
Session: Photochemistry, Photophysics, and Photosynthesis II	Scheduled for: Friday, July 4
Authors: A. Ligia Focsan Wesley Potter Lowell Kispert	
Frank, Harry For a Poster	Investigation of the excited state spectra and dynamics of rhodospinal glucoside from Rhodoblastus acidophilus 7050 grown under low-light conditions
Session:	Scheduled for:
Authors: Frank, H. A. Magdaong, N. Niedzwiedzki, D. M. LaFountain, A. M. Gardiner, A. T. Carey, A-M. Gibson, G. N. Cogdell, R. J.	
Ge, Zhiyuan For a Poster	HIGH CONCENTRATIONS OF KETOCAROTENOIDS IN THE HEPATIC MITOCHONDRIA OF A MOLTING RED SONGBIRD
Session:	Scheduled for:
Authors: Ge, Zhiyuan Johnson, James D. Cobine, Paul A. McGraw, Kevin J. Garcia, Rosana Hill, Geoffrey E.	

Abstracts for Scientific Program

Gellenbeck, Kevin For a 15 minute talk	MIXED CAROTENOID UPTAKE IN A HUMAN CLINICAL STUDY COMPARING CONVENTIONAL (IMMEDIATE) AND SEQUENTIAL RELEASE FORMULATIONS
Session: Food and Biotechnology I	Scheduled for: Thursday, July 3
Authors: Gellenbeck, K.W. Venzon, D.S. Kazolova, V. Izzy, S. Intra, J.	
Ghosh, Robin For a Poster	HIGH-LEVEL PRODUCTION OF THE INDUSTRIAL PRODUCT, LYCOPENE, USING THE PHOTOSYNTHETIC BACTERIUM, RHODOSPIRILLUM RUBRUM
Session:	Scheduled for:
Authors: Robin Ghosh Guo-Shu Wang Hartmut Grammel Khaled Abou-Aisha Ruedi Saegesser	
Giuffrida, Daniele For a Poster	NATIVE CAROTENOIDS COMPOSITION OF SOME FRUITS FROM PANAMA
Session:	Scheduled for:
Authors: Giuffrida, D. Menchaca, D. Dugo, P. Donato, P. Cacciola, F. Murillo, E.	
Giuffrida, Daniele For a Poster	C50 CAROTENOIDS FROM THE CHEESE-RIPENING BACTERIA ARTHROBACTER ARILAITENSIS
Session:	Scheduled for:
Authors: Giuffrida, D. Sutthiwong, N. Dugo, P. Donato, P. Cacciola, F. Fouillaud, M. Caro, Y. Dufossé, L.	
Gonzalez, Daniel For a Poster	Zeaxanthin Aggregation: A Quasi-Reversible System
Session:	Scheduled for:
Authors: Gonzalez, D. A. Babino, D. Ginory-Perez, J. Landrum, J. T.	
Gorusupudi, Aruna For a Poster	COMPARATIVE BIOAVAILABILITY AND BIOACCUMULATION OF XANTHOPHYLLS WITH β -CAROTENE IN A TRANSGENIC MOUSE MODEL.
Session:	Scheduled for:
Authors: Gorusupudi, A. Vachali, P.P. Li, B. Shen, Z. Besch, B. M. Nelson, K. Bernstein, P.S.	
Hammond, Billy For a 30 minute talk	EFFECTS OF THE MACULAR CAROTENOIDS ON BEHAVIORAL AND NEURAL MEASURES OF BRAIN FUNCTION.
Session: Carotenoids in the Eye I	Scheduled for: Monday, June 30
Authors: Billy R. Hammond, Jr. Emily R. Bovier Lisa M. Renzi	
Harrison, Earl For a Plenary	CAROTENOID METABOLISM IN ANIMALS INCLUDING HUMANS: FORMATION, OCCURRENCE AND FUNCTION OF APOCAROTENOIDS
Session: Carotenoid Metabolism and Function	Scheduled for: Tuesday, July 1
Authors: Earl H. Harrison Carlo dela Sena Jian Sun Sureshababu Narayanasamy Kenneth M. Riedl Robert W. Curley, Jr. Steven J. Schwartz	
Hashimoto, Hideki For a 30 minute talk	Ultrafast excited state dynamics of marine carotenoid fucoxanthin and its homologues
Session: Photochemistry, Photophysics, and Photosynthesis I	Scheduled for: Monday, June 30
Authors: Hashimoto, H. Kosumi, D. Fujii, R. Sugisaki, M. Iha, M. Sakaguchi, K. Katsumura. S.	
Hashimoto, Hideki For a Poster	Influence of Surrounding Environments on the Electronic and Vibronic Properties of Spheroidene
Session:	Scheduled for:
Authors: Hashimoto, H. Tonouchi, N. Kosumi, D. Nango, M. Sugisaki, M.	
Hirschberg, Joseph For a 15 minute talk	MOLECULAR AND BIOCHEMICAL CHARACTERIZATIONS OF THE BACTERIAL PHYTOENE DESATURASE CRTI SUGGEST A DIVERGENT EVOLUTION OF THE CAROTENOID BIOSYNTHESIS ENZYMES IN PLANTS
Session: Biosynthesis and Metabolism II	Scheduled for: Thursday, July 3
Authors: Hirschberg, J. Jubran, H. Filler, S. Dery, O. Enfissi, E.M. Fraser, P.D. Beyer, P.	

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Hosokawa, Masashi For a 15 minute talk	METABOLIC CONTROL VIA UP-REGULATION OF PGC-1 REGULATORY FACTORS BY FUCOXANTHIN
Session: Carotenoid Metabolism and Function II	Scheduled for: Thursday, July 3
Authors: Masashi Hosokawa Riho Tateyama Ai Koide Kazuo Miyashita	
IP, Blanche For a 15 minute talk	Lycopene supplementation inhibits high saturated-fat diet-promoted hepatic tumorigenesis via differential mechanisms depending on beta-carotene-9',10'-oxygenase expression in mice
Session: Chronic Disease Prevention and Treatment I	Scheduled for: Monday, June 30
Authors: IP, B.C. Liu, C. Smith, D.E. von Lintig, J. Wang, X-D.	
IP, Blanche For a Poster	Lycopene and apo-10'-lycopenoic acid inhibited high saturated fat diet-induced liver steatosis in beta-carotene-9',10'-oxygenase knockout mice
Session:	Scheduled for:
Authors: IP, B.C. Liu, C. Lichtenstein, A.H. von Lintig, J. Wang, X-D.	
Ishiki, Manabu For a 30 minute talk	The impact of astaxanthin on glucose metabolism.
Session: Chronic Disease Prevention and Treatment II	Scheduled for: Thursday, July 3
Authors: Ishiki M Nishida Y Ishibashi H Wada T Takikawa A Sasaoka T Usui I Tobe K	
Jahns, Lisa For a 25 minute talk	SKIN AND PLASMA CAROTENOID RESPONSE TO A PROVIDED INTERVENTION DIET HIGH IN VEGETABLES AND FRUITS: UPTAKE AND DEPLETION KINETICS
Session: Epidemiology, Genetics, and Nutrition I	Scheduled for: Tuesday, July 1
Authors: Jahns, L Johnson L.K Mayne, S.T Cartmel, B Picklo, M.J Ermakov, I.V Gellermann, W Whigham, L.D	
Jimenez, Victor M. For a Poster	THE ULTRASTRUCTURE OF MAMEY SAPOTE (POUTERIA SAPOTA) CHROMOPLASTS
Session:	Scheduled for:
Authors: Jiménez V.M. Chacón-Ordóñez, T. Schweiggert, R.M. Carle, R. Esquivel, P.	
Johnson, Elizabeth For a 30 minute talk	LOCALIZATION OF LUTEIN IN NON HUMAN PRIMATE BRAIN AND ITS POTENTIAL ROLE IN BRAIN HEALTH
Session: Brain and Cognition	Scheduled for: Tuesday, July 1
Authors: Elizabeth J. Johnson Emily S. Mohn Martha Neuringer Natalia Crivello John W. Erdman	
Juturu, Vijaya For a Poster	LUTEIN IMPROVES VISUAL FUNCTION IN EARLY-STAGE STREPTOZOTOCIN-INDUCED DIABETIC RATS
Session:	Scheduled for:
Authors: Deshpande J Reddy B G Shankaranarayanan J Bhattacharya A Juturu V	
Kaulmann, Anouk For a 15 minute talk	FRUIT AND VEGETABLE CONSUMPTION, CAROTENOIDS AND INFLAMMATORY SIGNALLING PATHWAYS
Session: Chronic Disease Prevention and Treatment II	Scheduled for: Thursday, July 3
Authors: Kaulmann, A. Bohn, T.	
Kaulmann, Anouk For a Poster	CAROTENOID AND POLYPHENOL PROFILES OF CABBAGE AND PLUM VARIETIES AND THEIR CONTRIBUTION TO TOTAL ANTIOXIDANT CAPACITY
Session:	Scheduled for:
Authors: Kaulmann,A. Bohn, T. Hoffmann,L. Schneider, Y.J.	
Kawashima, Yuki For a Poster	Development of PANAFERD-ZX: Zeaxanthin Enriched Dry Cell using Paracoccus carotinifaciens
Session:	Scheduled for:
Authors: Kawashima, Y. Nagai, H. Ikarashi, M. Maoka, T.	

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Khachik, Frederick For a 30 minute talk	Synthesis of isotopically labelled carotenoids for metabolic studies
Session: Chemical Synthesis, Analysis, and Industrial Production I	Scheduled for: Tuesday, July 1
Authors: Khachik, Frederick	
Kim, Youn-Kyung For a Poster	EXPLORING THE FUNCTION OF BETA-CAROTENE 15,15'-OXYGENASE IN RETINOID AND LIPID METABOLISM
Session:	Scheduled for:
Authors: Kim, Y.K. Dixon, J.L. Brinker, A. Zuccaro, M. Quadro, L.	
Kispert, Lowell For a Poster	Carotenoid Neutral Radicals in Photoprotection
Session:	Scheduled for:
Authors: Lowell Kispert Adam Maygar Ligia Focsan Péter Molnár József Deli	
Koo, Sangho For a 30 minute talk	Synthesis of Unnatural Carotenoids, and Their Applications
Session: Chemical Synthesis, Analysis, and Industrial Production I	Scheduled for: Tuesday, July 1
Authors: Koo, S. Oh, E.-T. Kim, Y. H. Lim, B. Choi, J. A. Park, M.	
Kopec, Rachel For a Poster	STABILITY OF CAROTENOIDS THROUGH THE DIGESTIVE PROCESS: IN VITRO STUDIES OF OXIDATION
Session:	Scheduled for:
Authors: Kopec, R. E. Borel, P. Desmarchelier, C. Carail, M. Caris-Veyrat, C.	
Kopsell, Dean For a Poster	Carotene Enhancement in Specialty Vegetable Crops through Exogenous Applications of Ionone Compounds
Session:	Scheduled for:
Authors: Kopsell, D. K. Goldman, I. L. Wiepz, R. Turman, D. L. Kopsell, D. E.	
Kucuk, Omer For a 30 minute talk	Lycopene in the prevention of genitourinary tumors
Session: Chronic Disease Prevention and Treatment II	Scheduled for: Thursday, July 3
Authors: Omer Kucuk Kazim Sahin Engin Yenice Mehmet Tuzcu Cemal Orhan Cengizhan Mizrak Ibrahim Ozercan Nurhan Sahin Karina Ciccone Chris Giardina	
LaFountain, Amy For a Poster	Investigation into the mechanisms of carotenoid coloration in avian plumage: A broad survey of carotenoid coloration from a diversity of feathers
Session:	Scheduled for:
Authors: LaFountain, A. M. Chen, X. Frank, H. A. Prum, R. O.	
Lakshminarayana, R. For a Poster	DETERMINATION OF POSSIBLE LUTEIN OXIDATION PRODUCTS IN RAT TISSUES AND OPTIMIZATION OF ANALYTICAL METHODS
Session:	Scheduled for:
Authors: Lakshminarayana, R. Sowmya, P.R. Arathi, B.P. Vijay, K Baskaran, V	
Landrum, John For a 30 minute talk	The Macular Pigment: Carotenoid Accumulation in the Developing Macaque Retina
Session: Carotenoids in the Eye II	Scheduled for: Friday, July 4
Authors: Landrum, J. T.	
Lee, Seung-Ah For a Poster	CARDIAC DYSFUNCTION IN BCMO1 KNOCKOUT MICE IS ASSOCIATED WITH ALTERED RETINOID AND LIPID METABOLISM
Session:	Scheduled for:
Authors: Seung-Ah Lee Hongfeng Jiang Chad M. Trent Jason Yuen Robert W. Curley, Jr Earl H. Harrison Mathew S. Maurer William S. Blaner	

Abstracts for Scientific Program

Li, Binxing For a Poster	Crystallization of the Human Ocular Carotenoid-Binding Proteins
Session:	Scheduled for:
Authors: Li, B. Sharifzadeh, H. Horvath, M. Bernstein, P. S.	
Li, Binxing For a Poster	Long-Term Zeaxanthin Supplementation to the Mouse Retina
Session:	Scheduled for:
Authors: Li, B. Vachali, P.P., Gorusupudi, A., Shen, Z. Besch, B. M. Nelson, K. Bernstein, P.S..	
Li, Xinli For a Poster	Dietary or circulating lycopene and stroke risk: a meta-analysis of prospective trials
Session:	Scheduled for:
Authors: Xinli LI JiuHong XU	
Lietz, Georg For a 30 minute talk	Simplified approaches for estimating vitamin A stores and β -carotene bioconversion in humans
Session: Epidemiology, Genetics, and Nutrition II	Scheduled for: Wednesday, July 2
Authors: Lietz, G. Park, H. Oxley, A. Boddy, A. Berry, P. Wyss, A. Schalch, W. Green, M.H.	
Lietz, Georg For a Poster	Gender differences in retinol metabolism are independent of β -carotene bioconversion
Session:	Scheduled for:
Authors: Lietz, G. Oxley, A. Berry, P. Hesketh, J. Tourniaire, F. Boddy, A.	
Linnewiel Hermoni, Karin For a 15 minute talk	CAROTENOID DERIVATIVE INHIBIT NFkB IN BONE AND CANCER CELLS BY TARGETING KEY THIOL GROUPS
Session: Chronic Disease Prevention and Treatment II	Scheduled for: Thursday, July 3
Authors: Linnewiel-Hermoni, K Levy, J. Sharoni, Y	
Liu, Jianguo For a Poster	MASS-SCALE CUTIVATION OF UNICELLULAR GREEN ALGA HAEMATOCOCCUS PLUVIALIS FOR NATURAL ASTAXANTHIN
Session:	Scheduled for:
Authors: Jian-guo Liu John P van der Meer Li-tao Zhang Yong Zhang	
Liu, Jianguo For a Poster	EFFECTS OF MICROALGAL ASTAXANTHIN AND CAROTENOIDS ON ACUTE RENAL INJURY PROPHYLAXIS IN MALE WISTAR RATS
Session:	Scheduled for:
Authors: Jianguo Liu Jun He Yong Zhang Yang Doris Liu Hong Gao	
Lokstein, Heiko For a Poster	CAROTENOID-CHLOROPHYLL INTERACTIONS IN PHOTOSYNTHETIC PIGMENT-PROTEIN COMPLEXES ELUCIDATED BY NON-LINEAR SPECTROSCOPY
Session:	Scheduled for:
Authors: Heiko Lokstein Alexander Betke Klaus Teuchner	
Lorantfy, Bettina For a 15 minute talk	Integrated bioprocess development with extreme Halophiles for carotenoid production
Session: Chemical Synthesis, Analysis, and Industrial Production II	Scheduled for: Wednesday, July 2
Authors: Lorantfy, B. Herwig, C.	
Magdaong, Nikki For a Poster	Optical spectroscopic investigation of native and recombinant peridinin-chlorophyll a-protein complexes
Session:	Scheduled for:
Authors: Magdaong, N. M. Enriquez, M. M. Schulte, T. Niedzwiedzki, D. M. Hofmann, E. Hiller, R. Frank, H. A.	

Abstracts for Scientific Program

Makuch, Krzysztof For a Poster	A MOLECULAR DYNAMICS SIMULATION STUDY OF LUTEIN AND ZEAXANTHIN ARRANGEMENTS IN THE PHOSPHOLIPID BILAYER
Session:	Scheduled for:
Authors: Krzysztof Makuch Michał Markiewicz Marta Pasenkiewicz-Gierula	
Mares, Julie For a 25 minute talk	EPIDEMIOLOGICAL EVIDENCE FOR DETERMINANTS OF MACULAR PIGMENT RESPONSE TO THE INTAKE OF LUTEIN AND ZEAXANTHIN
Session: Epidemiology, Genetics, and Nutrition I	Scheduled for: Tuesday, July 1
Authors: Mares, J.M. Meyers, K.J. Liu, Z. Johnson, E. Snodderly, D. M.	
Martinez, Ana For a Poster	ANTIOXIDANT, ANTIREDUCTANTS, ANTIRADICALS OR FREE RADICALS SCAVENGERS?
Session:	Scheduled for:
Authors: Martinez, A. Sliwka, H.R. Partali, V. Zeeshan, M. Stinco, C.M. Melendez-Martínez, A.J.	
Martinez, Ana For a Poster	FINITE VALUES OF INFINITE POLYENES
Session:	Scheduled for:
Authors: Martinez, A. Sliwka, H.R. Partali, V. Zeeshan, M.	
Mayorga, Maria For a 30 minute talk	CAROTENOIDS FROM FATTY YEAST
Session: Chemical Synthesis, Analysis, and Industrial Production II	Scheduled for: Wednesday, July 2
Authors: Mayorga, M. Laprade, L. Farrell, C. Houston, P. Grenfell-Lee, D. Trueheart, J.	
Mazeikiene, Asta For a Poster	THE ASSOCIATION OF SERUM CAROTENOID CONCENTRATION WITH SINGLE NUCLEOTIDE POLYMORPHISMS IN APOE, BCMO1, HL AND FABP GENES
Session:	Scheduled for:
Authors: Mazeikiene, A. Jakaitiene, A. Arasimavicius, J. Domarkiene, I. Uktveryte, I. Ambrozaityte, L. Kucinskiene, Z.A. Kucinskas, V.	
McGraw, Kevin For a 30 minute talk	Sex and disease in the city: links between carotenoid coloration, parasites, and urbanization
Session: Biosynthesis and Metabolism I	Scheduled for: Monday, June 30
Authors: McGraw, K. J. Giraudeau, M.	
McQuinn, Ryan For a Poster	IMPROVING STRATEGIES FOR THE ENHANCEMENT OF CAROTENOIDS IN CROPS
Session:	Scheduled for:
Authors: McQuinn, R. Wong, B. Giovannonim, J.	
MELLENDEZ-MARTINEZ, ANTONIO J. For a Plenary	THE "INVISIBLE CAROTENOIDS" PHYTOENE AND PHYTOFLUENE.
Session: Food and Biotechnology	Scheduled for: Thursday, July 3
Authors: Meléndez-Martínez, A.J.	
MELLENDEZ-MARTINEZ, ANTONIO J. For a Poster	Dietary sources of phytoene and phytofluene in Spain: Mediterranean Diet vs exotic foods
Session:	Scheduled for:
Authors: Meléndez-Martínez, A.J. Stinco, C.M. Hernanz, D. Murillo, E. Benítez-González, A.M.	
Mendes Pinto, Maria Manuela For a Poster	INSIGHTS INTO MOLECULAR MECHANISMS UNDERLYING CAROTENOID ABSORPTION SHIFTS
Session:	Scheduled for:
Authors: Maria Manuela Mendes Pinto Bruno Robert	

Abstracts for Scientific Program

Mendez, Vanesa For a Poster	A Virtual Model for Development of Macular Pigment in the Macaque Retina
Session:	Scheduled for:
Authors: Vanesa Mendez Yisi Cao Martha Neuringer John T. Landrum	
Mendez, Vanesa For a Poster	Direct Observation of Differences of Carotenoid Polyene Chain cis/trans Isomers Resulting from Structural Topology
Session:	Scheduled for:
Authors: Vanesa Mendez Emily R. Schenk Mark E. Ridgewa Melvin A. Park Francisco Fernandez-Lima John T. Landrum	
Mihály, Johanna For a Poster	REDUCED CAROTENOID AND RETINOID CONCENTRATIONS AND ALTERED ISOMER-RATIO IN SERUM OF ATOPIC DERMATITIS PATIENTS
Session:	Scheduled for:
Authors: Mihaly, J. Lowe, G Graham, D Szklenar, M Torocsik, D Ruhl, R	
Moore, Ana For a Poster	INVOLVEMENT OF CAROTENOIDS IN PHOTOSYNTHETIC REGULATION AND PHOTOPROTECTION
Session:	Scheduled for:
Authors: Moore A. L. Moore, T. A. Gust, D.	
Moore, Thomas For a 30 minute talk	ARTIFICIAL PHOTOSYNTHESIS – HELPING NATURE REGAIN CONTROL OF THE GLOBAL CARBON CYCLE
Session: Photochemistry, Photophysics, and Photosynthesis II	Scheduled for: Friday, July 4
Authors: Moore, T. A. Moore, A. L. Gust, D.	
Moran, Nancy For a 15 minute talk	13C-CAROTENOIDS FROM TOMATO CELL CULTURES FOR STUDIES OF HUMAN KINETICS AND METABOLISM
Session: Carotenoid Metabolism and Function I	Scheduled for: Tuesday, July 1
Authors: Moran, N.E. Cichon, M.J. Novotny, J.A. Grainger, E.M. Rogers, R.B. Riedl, K.M. Schwartz, S.J. Erdman, Jr. J.W. Clinton, S.K.	
Moran, Rachel For a 15 minute talk TBD	The relationship between dietary intake of Lutein (L) and Zeaxanthin (Z) and their concentrations in serum: Introduction of a novel L/Z dietary screener
Session: Epidemiology, Genetics, and Nutrition I	Scheduled for: Tuesday, July 1
Authors: Moran, Rachel Johnson, Elizabeth Stack, Jim Akuffo, Kwadwo Loskutova, Ekaterina Beatty, Stephen Nolan, John	
Murillo, Enrique For a Poster	PROVITAMIN A ACTIVITY OF β , κ -CAROTENOIDS USING PURIFIED RECOMBINANT HUMAN β -CAROTENNE 15,15'-OXYGENASE (BCO1)
Session:	Scheduled for:
Authors: Murillo, E. Reyna, G. dela Seña, c. Harrison, E. H.	
Neuringer, Martha For a 30 minute talk	LUTEIN AND ZEAXANTHIN IN THE MACULA AND BRAIN OF NONHUMAN PRIMATES: STRUCTURAL AND FUNCTIONAL ROLES
Session: Brain and Cognition	Scheduled for: Tuesday, July 1
Authors: Neuringer, M. Renner, L Johnson, E.J. Erdman, J.W.	
Ng, Mei Han For a 15 minute talk	PURIFICATION AND PRODUCTION OF PALM OIL CAROTENES USING SUPERCRITICAL FLUID CHROMATOGRAPHY
Session: Chemical Synthesis, Analysis, and Industrial Production II	Scheduled for: Wednesday, July 2
Authors: Ng, M.H. Choo, M.H.	
Nguyen, Lori For a 15 minute talk	Evaluating the relationship between fruit and vegetable intake using plasma and dermal biomarkers and reported dietary intake in 4th-grade children
Session: Epidemiology, Genetics, and Nutrition I	Scheduled for: Tuesday, July 1
Authors: Lori M. Nguyen Rachel E. Scherr Igor V. Ermakov Werner Gellermann Carl L. Keen Sheridan Miyamoto Francene Steinberg Heather M. Young Sheri Zidenberg-Cherr	

Abstracts for Scientific Program

Niedzwiedzki, Dariusz For a Poster	Investigation of the Carotenoid-to-Bacteriochlorophyll Energy Transfer in the LH2 Complexes Containing Carotenoids With Conjugation Length From 9 to 15
Session:	Scheduled for:
Authors: Dariusz M. Niedzwiedzki	
Niedzwiedzki, Dariusz For a Poster	Photophysical Properties of a Synthetic, Carbonyl-Containing (N = 6+C=O) Carotenoid Analogue
Session:	Scheduled for:
Authors: Dariusz M. Niedzwiedzki	
Nolan, John For a 30 minute talk	SUPPLEMENTATION WITH THREE DIFFERENT MACULAR CAROTENOID FORMULATIONS IN PATIENTS WITH EARLY AMD: RESULTS AFTER 36 MONTHS OF SUPPLEMENTATION
Session: Carotenoids in the Eye I	Scheduled for: Monday, June 30
Authors: Nolan, J. Stack, J. Akuffo, K. Howard, A. Beatty, S.	
Obana, Akira For a 15 minute talk	INFLUENCE OF CATARACTS ON AUTOFLUORESCENCE-BASED MACULAR PIGMENT IMAGING
Session: Carotenoids in the Eye II	Scheduled for: Friday, July 4
Authors: Obana A Gohto Y Seto T Ueno T Yoshino M Sharifzadeh M Gellermann W	
O'Donoghue, Adam For a Poster	Development of a high cis-lycopene tangerine tomato as a functional food for countering prostate cancer
Session:	Scheduled for:
Authors: O'Donoghue, A. MingXia, H. Fanning, K. Netzel, G. Walker, I. O. McGrath, D. J. Dillon, N. L. O'Hare, T. J.	
O'Hare, Tim For a 25 minute talk	ZEAXANTHIN BIOFORTIFICATION OF SWEET-CORN AND FACTORS AFFECTING ZEAXANTHIN ACCUMULATION AND COLOR CHANGE
Session: Food and Biotechnology I	Scheduled for: Thursday, July 3
Authors: O'Hare, T. J. Fanning, K. J. Martin, I. F.	
Ortiz, Darwin For a Poster	CHANGES IN THE CAROTENOID PROFILES OF BIOFORTIFIED CORN CULTIVARS AT PRE-HARVEST AND STORAGE STAGES
Session:	Scheduled for:
Authors: Darwin Ortiz Torbert Rocherford Bruce R. Hamaker Dominique Dufour Mario G. Ferruzzi	
Palmer, Amanda For a 30 minute talk	IMPACT OF PROTOVITAMIN A BIOFORTIFIED MAIZE FLOUR CONSUMPTION ON AFLATOXIN ADDUCT CONCENTRATIONS OF ZAMBIAN CHILDREN
Session: Epidemiology, Genetics, and Nutrition II	Scheduled for: Wednesday, July 2
Authors: Palmer, A. Chileshe, J. Schulze, K. Siamusantu, W. Klemm, R. Barffour, M. Groopman, J. West Jr., K.	
Pintea, Adela For a Poster	EFFECT OF ESTERIFICATION ON THE ANTIOXIDANT ACTIVITY OF ZEAXANTHIN
Session:	Scheduled for:
Authors: Pintea, A. Bunea, A. Socaci, S. Socaciu, C.	
Pogson, Barry For a 30 minute talk	
Session: Biosynthesis and Metabolism II	Scheduled for: Thursday, July 3
Authors:	
Polivka, Tomas For a 30 minute talk	TUNING SPECTROSCOPIC PROPERTIES OF CAROTENOIDS BY SMALL CHANGES IN CAROTENOID STRUCTURE
Session: Photochemistry, Photophysics, and Photosynthesis I	Scheduled for: Monday, June 30
Authors: T. Polivka M. Fuciman V. Slouf G. Kesan M. Kabelac	

Abstracts for Scientific Program

Polyakov, Nikolay For a 15 minute talk	Supramolecular chemistry of xanthophyll carotenoids.
Session: Chemical Synthesis, Analysis, and Industrial Production I	
Scheduled for: Tuesday, July 1	
Authors: Polyakov N. E. Selyutina O. Yu. Apanasenko I. E. Suntsova L. P. Dushkin A. V. Magyar A. Kispert L.D. Vachali P. Bernstein P. S.	
Polyakov, Nikolay For a Poster	STABILIZATION OF XANTHOPHYLL CAROTENOIDS BY WATER SOLUBLE OLIGOSACCHARIDES AND POLYSACCHARIDES.
Session:	
Scheduled for:	
Authors: Polyakov N. E. Apanasenko I. E. Selyutina O. Yu. Suntsova L. P. Dushkin A. V. Kispert L.D. Vachali P. Bernstein P. S.	
Quadro, Loredana For a Plenary	THE ROLE OF BETA-CAROTENE AND ITS ASYMMETRIC CLEAVAGE ENZYME DURING MAMMALIAN EMBRYOGENESIS
Session: Epidemiology, Genetics, and Nutrition	
Scheduled for: Wednesday, July 2	
Authors: Quadro, L, Spiegler, E.	
Rafacho, Bruna For a Poster	THE EFFECT OF BETA-CRYPTOXANTHIN SUPPLEMENTATION ON HEPATIC STEATOSIS AND INFLAMMATION IN BETA-CAROTENE-9'10'-OXYGENASE KNOCKOUT MICE
Session:	
Scheduled for:	
Authors: Rafacho, B. P. M. Liu. C Dong, Y. M. von Lintig, J. Wang, X-D.	
Ravi Kumar, Sangeetha For a 15 minute talk	PROTECTIVE EFFECTS OF ASTAXANTHIN AND SQUALENE: INDIVIDUAL AND COMBINED EFFECTS IN HIGH-FAT FED KK-A ^y MICE
Session: Biosynthesis and Metabolism I	
Scheduled for: Monday, June 30	
Authors: Ravi Kumar, S. Miyashita, K. Hosokawa, M.	
Richer, Stuart For a 15 minute talk	The Scripps Institute Early Biomarkers of AMD (EBAMD) Study –Foveal Macula Pigment Depression Data and Analysis,– including serum carotenoids: IRB-11-5677
Session: Carotenoids in the Eye I	
Scheduled for: Monday, June 30	
Authors: Richer, S. P. Pratt, S. G. Blake, P. Roberson, D. Rutledge, G. Pratt, G. Podella, C.	
Robert, Bruno For a 30 minute talk	RELATING THE STRUCTURE OF CAROTENOID ELECTRONIC STATES TO THEIR FUNCTION
Session: Photochemistry, Photophysics, and Photosynthesis II	
Scheduled for: Friday, July 4	
Authors: Robert B. Mendes Pinto M. M. Galzerano D. Pascal A. A. Gall A. Illoia C.	
Rodriguez-Amaya, Delia For a 25 minute talk	Overview of current carotenoid research in foods: From analysis to processing effects and health implications
Session: Food and Biotechnology I	
Scheduled for: Thursday, July 3	
Authors: Delia B. Rodriguez-Amaya	
Rubin, Lewis For a 30 minute talk	RETINAL PIGMENT EPITHELIAL CELL MODELS FOR INTERROGATING PROTECTIVE FUNCTIONS OF XANTHOPHYLLS IN RETINOPATHIES
Session: Carotenoids in the Eye II	
Scheduled for: Friday, July 4	
Authors: Gong, X. Harrell, M.L. Mitchell, D.C. Sundin, O.H. Vachali, P. Gonzalez-Fernandez, F. Bernstein, P.S. Rubin, L.P.	
Rubin, Lewis For a TBD	"IT'S NOT ONLY AMD": RETINAL XANTHOPHYLLS IN PREVENTION AND TREATMENT OF RETINOPATHY OF PREMATURITY AND DIABETIC RETINOPATHY
Session:	
Scheduled for:	
Authors: Rubin, L.P.	
Rühl, Ralph For a 15 minute talk	BENEFICIAL EFFECTS OF LYCOPENE FOR ASTHMA ARE MEDIATED VIA ALTERED EICOSANOID / DOCOSANOIDS REGULATION IN ANIMAL ASTHMA MODELS
Session: Chronic Disease Prevention and Treatment II	
Scheduled for: Thursday, July 3	
Authors: Birta, E. Szklenar, M. Bohn, T. Bacsi, A. Rühl, R.	

Abstracts for Scientific Program

Scholes, Greg For a Plenary	Ultrafast energy transfer and carotenoids in photosynthesis
Session: Photochemistry, Photophysics, and Photosynthesis	Scheduled for: Monday, June 30
Authors: Scholes, G. D. Ostroumov, E. E.	
Sharifzadeh, Mohsen For a Poster	IMAGING OF MACULAR PIGMENT IN INFANTS AND CHILDREN
Session:	Scheduled for:
Authors: Mohsen Sharifzadeh Paul S. Bernstein Werner Gellermann	
Sharoni, Yoav For a 30 minute talk	Mechanisms for the effects of carotenoids and their derivatives in cancer prevention and in bone health: the role of insulin-like growth factor and the NFkB transcription system.
Session: Chronic Disease Prevention and Treatment I	Scheduled for: Monday, June 30
Authors: Yoav Sharoni Karin Linnewiel-Hermoni Othaila Waked-Adawi Joseph Levy	
Shindo, Kazutoshi For a Poster	NEW AND RARE CAROTENOIDS WITH CARBON 30 OR 40 SKELETONS, ISOLATED FROM MARINE BACTERIA AND THEIR ANTIOXIDANT ACTIVITIES
Session:	Scheduled for:
Authors: Kazutoshi Shindo Norihiko Misawa	
Sliwka, Richard For a Poster	CAN CAROTENOIDS CONTRIBUTE TO GENE THERAPY?
Session:	Scheduled for:
Authors: Hans-Richard Sliwka Vassilia Partali Christer. L. Øpstad, Emile Jubeli Michael D. Pungente	
Smith, Joshua For a 15 minute talk	SCREENING AND SELECTION OF HIGH LUTEIN AND ALPHA-TOCOPHEROL PRODUCING CARROT CELL CULTURE LINES FOR 13C ISOTOPIC LABELING AND IN VIVO BIOLOCALIZATION STUDIES
Session: Brain and Cognition	Scheduled for: Tuesday, July 1
Authors: Smith, J. W. Rogers, R. B. Rubakhin, S. S. Sweedler, J. V. Johnson, E. J. Neuringer, M. Kuchan, M. J. Erdman, J. W. Jr.	
Smith, Joshua For a Poster	FUNCTIONS OF CAROTENOID OXYGENASES: BEYOND CAROTENOID METABOLISM
Session:	Scheduled for:
Authors: Smith, J. W. Ford, N. A. Clinton, S. K. Erdman, J. W. Jr.	
Socaciu, Carmen For a 25 minute talk	Nano- and micro-encapsulation of carotenoids: innovative technologies to improve stability and controlled release
Session: Food and Biotechnology I	Scheduled for: Thursday, July 3
Authors: Socaciu, C. Pop, O. Sconta, Z. Pop, R.	
Sowmya, Poorigali For a Poster	CYTOTOXICITY AND ANTI-PROLIFERATION OF HELA CELLS BY CAROTENOIDS IS DEPEND ON SELECTIVE MODE OF DELIVERY VEHICLE
Session:	Scheduled for:
Authors: Sowmya, P.R. Arathi, B. P. Vijay, K. Krishnamurthy, H. Baskaran, V. Lakshminarayana, R.	
Strzałka, Kazimierz For a Poster	DIADINOXANTHIN DE-EPOXIDASES OF TWO PHEODACYLUM TRICORNUTUM STRAINS: UTEX 646 AND CCAP 1055/1
Session:	Scheduled for:
Authors: Kazimierz Strzałka Monika Bojko Monika Olchawa-Pajor Dariusz Latowski	
Taylor, Richard For a 15 minute talk	Regulatory Hurdles for Carotenoid Commercialization
Session: Chemical Synthesis, Analysis, and Industrial Production II	Scheduled for: Wednesday, July 2
Authors: Taylor, R.F.	

Abstracts for Scientific Program

Tripodo, Giusy For a Poster	BIOACCESSIBILITY OF PHYTOENE AND PHYTOFLUENE FROM ORANGES. EFFECT OF SQUEEZING AND DIETARY FAT
Session:	Scheduled for:
Authors: Tripodo, G. Pumilia, G. Stinco, C.M. Vicario, I.M. Giuffrida, D. Dugo, P. Dugo, G.mo Melendez-Martinez A. J.	
Tripodo, Giusy For a Poster	STUDY OF THE CAROTENOIDS ESTERS IN DIVERSE CITRUS CULTIVARS
Session:	Scheduled for:
Authors: Tripodo, G. Giuffrida, D. Stinco, C.M. Dugo, P. Dugo, G.mo Vicario, I. M. Melendez-Martinez A. J.	
Tsuchida, Kozo For a 30 minute talk	THE MOLECULAR ANALYSIS OF TISSUE-SPECIFIC DELIVERY FOR CERTAIN CAROTENOIDS IN THE SILKWORM BOMBYX MORI
Session: Biosynthesis and Metabolism I	Scheduled for: Monday, June 30
Authors: Kozo Tsuchida Takashi Sakudoh	
Uragami, Chiasa For a Poster	The Raman Spectroscopic Study on Siphonous Green Alga, <i>Codium intricatum</i> , Cultivated at Two Different Kinds of Light Condition
Session:	Scheduled for:
Authors: Uragami, C. Galzerano, D. Gall, A. Shigematsu, Y. Meisterhans, M. Oka, N. Iha, M Fujii, R. Robert, B. Hashimoto, H.	
Vachali, Preejith For a 15 minute talk	SURFACE PLASMON RESONANCE (SPR)-BASED BIOSENSOR TECHNOLOGY FOR THE QUANTITATIVE CHARACTERIZATION OF PROTEIN-CAROTENOID INTERACTIONS.
Session: Carotenoid Metabolism and Function II	Scheduled for: Thursday, July 3
Authors: Vachali, P.P. Li,B. Besch, B.M. Nelson, K. Bernstein, P.S.	
Vachali, Preejith For a Poster	RETINAL UPTAKE OF MACULAR PIGMENTS IN TRANSGENIC MOUSE MODELS.
Session:	Scheduled for:
Authors: Vachali, P.P. Li,B. Gorusupudi, A. Shen, Z. Besch, B.M. Nelson, K. Bernstein, P.S.	
Valmalette, Jean-Christophe For a 30 minute talk	A FIRST EVIDENCE OF CAPTURE OF LIGHT AND ATP SYNTHESIS BY INSECT
Session: Photochemistry, Photophysics, and Photosynthesis II	Scheduled for: Friday, July 4
Authors: Valmalette J. C. Dombrovsky A. Brat P. Mertz C. Capovilla M. Robichon A.	
Victoria, Claudia For a Poster	IN VITRO MICELLARIZATION OF FREE AND ESTERIFIED PIGMENTS FROM JALAPEÑO PEPPERS AT INTERMEDIATE RIPENING STAGES: THE EFFECT OF COMPLEX FOOD MATRICES
Session:	Scheduled for:
Authors: Victoria-Campos, C. I. Ornelas-Paz, J. de J.	
Von Lintig, Johannes For a 30 minute talk	Symmetric versus eccentric cleavage of pro-vitamin A carotenoids in mammalian physiology
Session: Carotenoid Metabolism and Function I	Scheduled for: Tuesday, July 1
Authors: von Lintig, J. Palczewski, G. Widjaja-Adhi, N.A. Babino, D. Amengual, A.	
Von Oppen-Bezalel, Liki For a Poster	THE PHOTOPROTECTIVE AND SKIN LIGHTENING EFFECTS OF A FOOD SUPPLEMENT TOMATO POWDER RICH IN PHYTOENE AND PHYTOFLUENE, THE COLORLESS CAROTENOIDS
Session:	Scheduled for:
Authors: von Oppen-Bezalel, L. Havas, F. Fishbein, D. Ben-Chitrit, O. Baron, A.	
Wang, Xiang-Dong For a Plenary	CAROTENOIDS AND CHRONIC DIESEASE PREVENTION VIA THE INTERACTION WITH SIRT1
Session: Chronic Disease Prevention and Treatment	Scheduled for: Monday, June 30
Authors: Wang, X.D.	

Abstracts for Scientific Program

Wang, Xiang-Dong For a Poster	THE EFFECT OF LYCOPENE SUPPLEMENTATION ON TOBACCO CARCINOGEN INDUCED HEPATIC CYP2E1 EXPRESSION, STEATOHEPATITIS AND HEPATOCELLULAR CARCINOMAS IN FERRETS
Session:	Scheduled for:
Authors: Wang, X.D. Aizawa, K Liu, C. Veeramachaneni, S Hu, K.Q. Smith, D.E.	
White, Wendy For a Poster	Soybean Oil in Salad Dressing and Bioavailability of Fat-soluble Micronutrients in Salads: a Dose-Response Study
Session:	Scheduled for:
Authors: White, W.S. Zhou, Y. Agustiana, A. Quadt, F. Dixon, P. Flendrig, L.	
Widjaja-Adhi, Ni Made Airanthi K. For a 15 minute talk	MOLECULAR COMPONENTS CONTROLLING CAROTENOID HOMEOSTASIS IN MAMMALS
Session: Carotenoid Metabolism and Function I	Scheduled for: Tuesday, July 1
Authors: Widjaja-Adhi, N.M.A.K. Lobo, G.P. von Lintig, J.	
Wijaya, Wahyu For a Poster	Stability of carotenoids in the crude extract of Rhodospseudomonas palustris
Session:	Scheduled for:
Authors: Wijaya, W. Prasetyo, B. Limantara, L.	
Wuestenberg, Bettina For a 30 minute talk	Large Scale Production of Carotenoids
Session: Chemical Synthesis, Analysis, and Industrial Production II	Scheduled for: Wednesday, July 2
Authors: Wuestenberg, B Bonrath, W. Hitzfeld, A. Medlock, J. Mueller, T. Schaefer, C. Schierle, J.	
Wurtzel, Eleanore For a Plenary	ENGINEERING CAROTENIODS: A MULTI-DIMENSIONAL PUZZLE YET TO BE SOLVED.
Session: Biosynthesis and Metabolism	Scheduled for: Thursday, July 3
Authors: Eleanore T. Wurtzel Maria Shumskaya Jesús Beltrán Xiaoling Yao	
Yamano, Nami For a Poster	PHOTOSYNTHETIC PIGMENTS BOUND TO THE PIGMENT-PROTEIN COMPLEX IN ASTAXANTHIN PRODUCING LETTUCE
Session:	Scheduled for:
Authors: Yamano N Fujii R Ifuku K Misawa N Hashimoto H	
Yamashita, Eiji For a Poster	BEAUTY SCIENCE BY ASTAXANTHIN INSIDE-OUT & OUTSIDE-IN TREATMENT.
Session:	Scheduled for:
Authors: Yamashita, E Hongo, N Tominaga, K	
Yatsunami, Rie For a Poster	ANALYSIS OF THREE GENES FOR BACTERIORUBERIN BIOSYNTHESIS IN EXTREMELY HALOPHILIC ARCHAEON Haloarcula japonica
Session:	Scheduled for:
Authors: Yatsunami, R. Yang, Y. Ando, A. Miyoko, N. Takaichi, S. Nakamura, S	
Yoshizawa, Masayuki For a 15 minute talk	DYNAMICS IN LH1 COMPLEXES STUDIED BY REPUMP OF THE DARK EXCITED STATES OF CAROTENOID
Session: Photochemistry, Photophysics, and Photosynthesis I	Scheduled for: Monday, June 30
Authors: Sobue, K. Yoshimatsu, O. Abe, K. Sakai, S. Nango, M. Hashimoto, H. Yoshizawa, M.	
You, Hong For a 15 minute talk	Quantifying the Provitamin A Value of Beta-carotene-biofortified Sorghum
Session: Food and Biotechnology I	Scheduled for: Thursday, July 3
Authors: You, H. Zhang, Y. Zhao, Z-Y. Che, P. Albertsen, M.C. Glassman, K. White, W.S.	