

3rd International Immunonutrition Workshop

October 21st-24th, 2009
Platja d'Aro, Girona, Spain

POSTER PRESENTATIONS SESSION I

THURSDAY, October 22nd, 2009

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Room:
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15:00-17:30h

TOPIC 1: DIETS AND LOW-GRADE INFLAMMATION

PANEL 1

OMEGA-3 SUPPLEMENTATION ASSOCIATED TO NUTRITIONAL ADVICE IMPROVES OXIDATIVE STRESS AND INFLAMMATION MARKERS IN CHRONIC RENAL FAILURE PATIENTS.

By A Boukaddoum¹, W Taleb¹, N Bouzidi¹, K Mekki¹, A Kaddous² and M Bouchenak¹,
¹Laboratoire de Nutrition Clinique et Métabolique, Département de Biologie, Faculté des Sciences, Université d'Oran Es-Sénia, Algérie. ² Service de Néphrologie, E.H.U d'Oran, Algérie

PANEL 2

OBESITY-ASSOCIATED ADIPOCYTE AND INNATE IMMUNE CELL DYSFUNCTIONS AND THEIR MODULATION BY ANTI-INFLAMMATORY POLYPHENOLS

By B. Scazzocchio, M. Del Corno, R. Vari, C. Filesi, M. D'archivio, M. Fiani, P. Sestili, R. Masella and S. Gessani,
Istituto Superiore di Sanità, Viale R. Elena, 299, Rome, Italy

PANEL 3

EFFECT OF VITAMIN D SUPPLEMENTATION ON CIRCULATING CONCENTRATIONS OF C-REACTIVE PROTEIN (CRP) IN ADULTS AGED 20-40 AND 64+ YEARS.

By A Lucey¹, T Hill¹, S Muldowney¹, K Seamans¹, JMW Wallace³, G Horigan³, MS Barnes³, KD Cashman^{1,2} and M Kiely¹.

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PANEL 4

ARE COELIACS FOLLOWING A GLUTEN FREE DIET OR A LOW-GLUTEN DIET?

By B Esteban, M Márquez and JI Serrano-Vela.
Madrid Coeliac Association. Spain

PANEL 5

EFFECT ON HEALTH OF NON-ALCOHOL BEER AND HOP SUPPLEMENTATION IN A GROUP OF NUNS IN A CLOSED ORDER

López-Jaén A.B.¹, Codoñer-Franch P¹, Martínez-Álvarez J.R.², Villarino-Marín A.², Valls-Bellés V¹.

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TOPIC 2: FUNCTIONAL FOODS AND THE IMMUNE SYSTEM

PANEL 6

A SEVEN-DAY HIGH COCOA DIET DECREASES OXIDANT AND INFLAMMATORY PROPERTIES OF PERITONEAL MACROPHAGES IN RATS.

By S Ramos-Romero, FJ Pérez-Cano, T Pérez-Berezo, C Castellote, A Franch and M Castell.

Department of Physiology, Faculty of Pharmacy and Institut de Recerca en Alimentació i Seguretat Alimentària, University of Barcelona, Spain

TOPIC 3: NUTRITION AND IMMUNITY IN DIFFERENT PHYSIOLOGICAL STATES

PANEL 7

SCREENING FOR HUMAN MILK AMINO ACIDS BY HPLC-ESI-MS/MS IN THE STUDY OF THE IMMUNONUTRITION OF THE NEWBORN INFANTS

By Sánchez CL¹, Toribio Af², Cubero J¹, Sánchez J³, Maynar J², Rodríguez AB¹, Rivero M⁴, Barriga C¹.

¹Department of Physiology, Faculty of Science, University of Extremadura, Badajoz, Spain;

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PANEL 8

REFERENCE VALUES OF LYMPHOCYTE SUBPOPULATIONS IN EUROPEAN ADOLESCENTS. PRELIMINARY RESULTS FROM THE HELENA STUDY.

By L.E. Díaz-Prieto¹, E. Nova¹, S.Gomez-Martinez¹, J. Warnberg¹, J. Romeo¹, D. Molnár², K. Widhalm³, K. Vyncke⁴, P. Buonocore⁵, L. Moreno⁶ And A. Marcos¹.

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PANEL 9

PERIPHERAL LYMPHOCYTE SUBSETS IN INFANTS AT RISK FOR CELIAC DISEASE. EFFECT OF MILK FEEDING PRACTICES AND HLA GENOTYPE. THE PROFICEL STUDY.

By T Pozo¹, A Capilla², A Marcos¹, Y Sanz³, G De Palma³, I Polanco⁴, MD García-Novo⁵, G Castillejo⁶, C Ribes-Koninckx⁷, V Varea⁸, JA. Garrote⁹, C Calvo⁹, F Palau³ and E Nova¹.

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TOPIC 4: NUTRITION AND IMMUNITY IN PATHOLOGICAL STATES

PANEL 10

LONG TERM LOW-DOSE FATTY ACID SUPPLEMENTATION IN ADULTS WITH CYSTIC FIBROSIS

By G. Oliveira¹, JA Atencia¹, C Oliveira², N Porrás¹, G Martín¹, E Acosta², E García-Escobar¹, L Garrido-Sánchez³, G Rojo-Martínez¹, and F Soriguer¹.

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PANEL 11

CHARACTERIZATION OF SUBPOPULATIONS AND FUNCTIONS IN PERITONEAL LEUKOCYTES OF ZUCKER OBESE RATS.

By N.M. De Castro¹, I. Baeza¹, C. Vida¹, N. Úbeda² and M. De La Fuente¹

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PANEL 12

OXIDATIVE STRESS IN GENETICALLY OBESE RATS. A POSSIBLE MODEL OF PREMATURE AGING.

By N.M. De Castro¹, I. Baeza¹, C. Vida¹, N. Úbeda², R. Manso³ and M. De La Fuente¹

¹ Department of Physiology, Faculty of Biology, Complutense University of Madrid. 28040 Madrid, Spain.

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PANEL 13

QUERCETIN ADMINISTRATION REDUCES THE PRO-INFLAMMATORY CYTOKINES EXPRESSION IN CIRRHOTIC RATS

By JM Culebras^{1,2}, J Tieppo³, MJ Cuevas¹, R Vercelino³, J González-Gallego¹, N Marroni³ and MJ Tuñón¹. ¹CIBERehd, Institute of Biomedicina of the University of Leon, Spain. ²Hospital of León, Spain. ³Laboratorio de Hepatología Experimental Fisiología HCPA/UFRGS., Porto Alegre, Brazil.

PANEL 14

GLUTEN AS A PRECIPITATING FACTOR OF AUTOIMMUNE DISEASES OTHER THAN CELIAC DISEASE.

By MI Martínez¹, JA Domínguez¹, A Alegre², Alfonso-Sánchez^{2,3} and J Martínez-Raga⁴,

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PANEL 15

CELIAC DISEASE WITHIN THE VILLOUS ATROPHY SYNDROME IN PRESCHOOL CHILDREN

By G. Baciú, P. Popa, M. Dobre and A. Nechita,

Faculty of Medicine and Pharmacy, "Dunarea de Jos" University of Galati, 35, A.I.Cuza Street, Galati, Romania

PANEL 16

IN VITRO INVESTIGATION OF THE EFFECTS OF TRYPTOPHAN FERMENTATION PRODUCTS ON IMMUNE RESPONSE.

By L. Abecia, Al McCartney and A Klinder.

Food Microbial Science Unit, School of Chemistry, Food Biosciences and Pharmacy, University of Reading, RG6 6AP, UK.

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MACROSCOPIC AND MICROSCOPIC CHARACTERIZATION OF COLITIS IN A MICE MODEL OF INFLAMMATORY BOWEL DISEASE AND ITS APPLICATION TO NUTRITIONAL THERAPEUTICS.

By A Pérez-Bosque^{1,2}, M Maijó¹, L Miró¹, J Polo², E Weaver³, J Crenshaw⁴, L Russell⁴, J Campbell⁴ and M Moretó¹,

¹Department of Physiology, Faculty of Pharmacy and Research Institute for Nutrition and Food Safety, University of Barcelona, Spain; ²APC Europe, Granollers, Spain; ³Proliant Health and Biologicals, Ankeny, IA, USA; ⁴APC Inc., Ankeny, IA, USA.

PANEL 18

OBESITY, DIET AND DISLIPIDEMIA IN MEXICAN YOUNG PEOPLE.

By JM Hurtado-Capetillo, ME Salazar-Calderón and B Torres-Flores.

Department of Epidemiology and Molecular Biology of the Centro de Estudios y Servicios en Salud at Universidad Veracruzana, Veracruz City, Mexico.

PANEL 19

CHARACTERIZATION OF THE HAEMATOLOGICAL PROFILE, PERIPHERAL LYMPHOCYTES AND CYTOKINE PRODUCTION CAPACITY OF CHILDREN WITH MILD ALLERGIC ASTHMA.

By E. Nova¹, T. Pozo¹, G. Garcia², J. Romeo¹, S. Gomez-Martinez¹, L.E. Diaz¹, J. Warnberg¹, A.A. Duarte¹, A. Nogales², A. Marcos¹.

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PANEL 20

SERUM LEVELS OF APPETITE-CONTROLLING HORMONES AFTER A MULTIDISCIPLINARY OBESITY TREATMENT PROGRAMME IN ADOLESCENTS. PRELIMINARY RESULTS FROM THE EVASYON STUDY.

By J. Romeo J¹, J. Warnberg^{1,3}, S. Gomez-Martinez¹, M.A. Puertollano^{1,6}, B. Zapatera B¹, L.E. Diaz¹, J.M. Garragorri Jm², A Martí³, C. Campoy⁴, C. Redondo C⁵ and A. Marcos A¹.

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PANEL 21

PLASMA LEPTIN LEVELS AND INFLAMMATION BIOMARKERS IN WELL NOURISHED AND MALNOURISHED HAEMODIALYSED PATIENTS.

By Ruperto M^{1,2*}, Sánchez-Muniz Fj², Sánchez Ja¹ and Barril G¹,

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TOPIC 5: NUTRITION AND INFECTION

PANEL 22

EFFECT OF CALORIC RESTRICTION ON THE PRODUCTION AND SECRETION OF INTESTINAL IGA IN MICE INFECTED WITH *SALMONELLA TYPHIMURIUM*.

By Jarillo Luna RA¹, Oliver Aguillón G¹, Rivera Aguilar V², Lara Padilla E¹, Pacheco Yopez J¹, Martínez Carrillo BE¹ and Campos Rodríguez R¹;

¹ Sección de Postgrado e Investigación, Escuela Superior de Medicina, Instituto Politécnico Nacional, Plan de San Luis y Díaz Mirón CP 11340 México D.F. ² Departamento de Microbiología, UBIPRO, FES-Iztacala, UNAM, Av. de los Barrios #1, Tlalnepantla Edo. de México. CP 54090, México.

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EXACT STRUCTURE OF BACTERIOPHAGE T4 AND INFECTION: A STEP CLOSER TO STOPPING *ESCHERICHIA COLI*

By F. Torrens¹ and G. Castellano²,

¹Institut Universitari de Ciència Molecular, Universitat de València, Edifici d'Instituts de Paterna, P. O. Box 22085, 46071 València, Spain, ²Instituto de Medio Ambiente y Ciencias Marinas, Universidad Católica de Valencia San Vicente Mártir, 46003 València, Spain

PANEL 24

SELENIUM LEVELS AND TOTAL ANTIOXIDANT CAPACITY IN SERUM OF AIDS ADULT PATIENTS. PRELIMINARY STUDY

By MS Feliu, A Squassi, G Sánchez, A Piñeiro, K Vignati, AC Mignaqui, EM Insani and N Slobodianik

Dept. Nutrition, Dept. Toxicology, CLAPAR I. University of Buenos Aires. INTA

PANEL 25

URINARY CALCULI AS CONSEQUENCE OF RENAL INFECTION AND RELATIONSHIP BETWEEN THEIR INCIDENCE AND DIFFERENT DIETARY FACTORS

By G. S. Popescu (Pintilie)^{1,2}, I. Varga³, I. Ionescu⁴ and A. Preda⁵

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PANEL 26

HELICOBACTER PYLORI INFECTION AND LINEAR GROWTH DEFICITS AMONG SCHOOL CHILDREN IN MÉXICO

By F. Jiménez-Guerra¹, P.S. Shetty², and A.V. Kurpad³,

¹Health Sciences Department, Universidad Veracruzana. Iturbide s/n esq. Carmen Serdán. Veracruz, Ver. México. ²Institute of Human Nutrition. University of Southampton. Medical School Southampton. UK. and ³St. John's Research Institute. Bangalore, India.

PANEL 27

OBESITY AND ASSOCIATED DISEASES IN YOUNG PEOPLE

By ME Salazar-Calderón, JM Hurtado-Capetillo and B Torres-Flores.

Department of Epidemiology and Molecular Biology of the Centro de Estudios y Servicios en Salud at Universidad Veracruzana, Veracruz City, Mexico.

TOPIC 6: PHYSICAL ACTIVITY, DIET AND THE IMMUNE SYSTEM

PANEL 28

PHYSICAL TRAINING IMPROVES THE SPLEEN REDOX SITUATION IN RESPONSE TO THE STRESS OF A BOUT OF PHYSICAL EXERCISE IN GENETICALLY OBESE RATS.

By N.M. De Castro¹, I. Baeza¹, C. Vida¹, O. Hernández¹, R. Manso² and M. De La Fuente¹

¹ Department of Physiology, Faculty of Biology, Complutense University of Madrid. 28040 Madrid, Spain.

².Department of Molecular Biology. Faculty of Sciences. Autonomous University of Madrid. 28049 Madrid, Spain.

PANEL 29

THE EFFECT OF A MODERATE INTENSITY EXERCISE PROGRAM UPON THYMIC CELL FUNCTION IN UNDERNOURISHED RATS.

By WDS Cunha¹, AS Yamashita², MV Giampietro¹, DF Souza¹, AS Fernandes¹; M Vaisberg³, W Savino⁴; LFBP Costa Rosa⁵ and MCL Seelaender¹,

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RELATIONSHIPS OF SELF-REPORTED PHYSICAL ACTIVITY, FITNESS AND BODY MASS INDEX WITH INFLAMMATORY PROTEINS IN ADOLESCENTS. THE AFINOS STUDY

By D. Martínez-Gómez^{1,2}, J.C. Eisenmann³, S. Gómez-Martínez¹, J. Wärnberg^{1,4}, A.M. Veses¹, O.L. Veiga² and A. Marcos¹

PANEL 31

INFLUENCE OF PHYSICAL ACTIVITY ON LYMPHOCYTE SUBSETS IN ADOLESCENTS FROM MADRID. THE AFINOS STUDY.

By A.M. Veses¹, S. Gómez-Martínez¹, D. Martínez-Gómez^{1,2}, O. Veiga² And A. Marcos¹,
¹ Immunonutrition Research Group. Department of Metabolism and Nutrition. Institute Frio-ICTAN. Spanish National Research Council (CSIC). Madrid. Spain. ² Department of Physical Education, Sport and Human Movement. Facultad de Formación del Profesorado y Educación. Universidad Autónoma de Madrid. Madrid. Spain

PANEL 32

ARE IMMUNE DISORDERS RELATED TO QUALITY OF DIET, PHYSICAL ACTIVITY, SCREEN-TIME AND SLEEP-TIME IN OUR CHILDREN?

By M.Calvo-Terrades^{1,2} and J.C.Sevilla-Moya^{2,3},
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TOPIC 7: PREBIOTICS AND THE IMMUNE SYSTEM

PANEL 33

B2-1 FRUCTAN-TYPE PREBIOTICS AND IMMUNE FUNCTION IN HUMANS

By AR Lomax and PC Calder
University of Southampton, Southampton, SO16 6YD

PANEL 34

BENEFICIAL EFFECTS OF LACTOBACILLUS ACIDOPHILUS AND BIFFIDOBACTERIUM LACTIS, ALONE OR IN COMBINATION WITH A PREBIOTIC, ON THE PARTIALLY SUPPRESSED IMMUNE SYSTEM OF MICE WITH PSYCHOLOGICAL CHRONIC STRESS.

By E.Vazquez, A. Barranco, M.J.Martin and R.Rueda,
Discovery & Technology, R&D Dpt., Abbott Nutrition, Granada-Spain.

PANEL 35

EFFECTS OF SEVERAL COMBINATIONS OF PROBIOTICS AND PREBIOTICS ON THE SPECIFIC INTESTINAL IMMUNE RESPONSE IN OVALBUMIN SENSITIZED MICE.

By E.Vazquez, A. Barranco, M.J.Martin and R.Rueda,
Discovery & Technology, R&D Dpt., Abbott Nutrition, Granada-Spain.

PANEL 36

EFFECTS OF SEVERAL COMBINATIONS OF PROBIOTICS AND PREBIOTICS ON THE SPECIFIC SYSTEMIC IMMUNE RESPONSE IN AN INFLUENZA VACCINATION MOUSE MODEL.

By E.Vazquez, M.J.Martin, A.Barranco and R.Rueda,
Discovery & Technology, R&D Dpt., Abbott Nutrition, Granada-Spain.

TOPIC 8: PROBIOTICS, IMMUNITY & INFLAMMATION

PANEL 37

STUDY OF HEALTHY PROPERTIES OF PROBIOTICS AND PREBIOTICS

By P. León-Izard, P. Hernandez, P. Gozalez, F. Del Pozo and J.L. Sánchez-Benito
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PANEL 38

ROLE OF DIETARY GLYCOSAMINOGLYCANS AND *BIFIDOBACTERIUM LONGUM* ON THE GLIADIN-MEDIATED INFLAMMATORY RESPONSE(S) IN INTESTINAL EPITHELIAL CELLS (CACO-2)

By Laparra JM and Sanz Y.

Microbial Ecophysiology and Nutrition Group. Institute of Agrochemistry and Food Technology

(IATA), Spanish National Research Council (CSIC), Valencia, Spain.

PANEL 39

IN VITRO STUDY COMPARING THE EFFECT OF VIABLE AND NON-VIABLE BACTERIAL CELLS ON HUMAN PERIPHERAL BLOOD MONONUCLEAR CELLS

By M. Baran¹, S. Kolida¹, R. Rastall¹, P. Yaqoob¹, G. Tzortzis² and C. Childs¹

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PANEL 40

THE USE OF CAROB BEAN GUM AND SACCHAROMYCES CEREVISIAE PREVENTS EARLY INFECTION OF PIGLETS EXPERIMENTALLY CHALLENGED WITH ESCHERICHIA COLI.

By R Badia^{1,2}, A White², R Lizardo¹, P Martinez², I Badiola³ and J Brufau¹

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PANEL 41

POTENTIAL OF A LACTOBACILLI PROBIOTIC TO COUNTERACT THE TOXIC EFFECTS OF FUSARIUM MYCOTOXINS

By I. Taranu¹, D. E. Marin¹, G. Manda², M. Burghilea¹ and Cristina Tabuc¹,

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PANEL 42

IMMUNOMODULATORY EFFECT OF PROBIOTIC ADMINISTERED TO PREGNANT WOMEN .

By A.Tafaro¹, M.Baldassarre², L.Mosca³, P. Mastromarino³, M. Falcone², A.Filannino² and C.De Simone⁴,

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of Bari, Bari, Italy. ³ Department of Public Health Sciences, Section of Microbiology, University La Sapienza, Rome, Italy. ⁴ Faculty of Medicine, University of L'Aquila, L'Aquila, Italy

POSTER PRESENTATIONS SESSION II

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TOPIC 9: BIOACTIVE COMPOUNDS AND THE IMMUNE SYSTEM

PANEL 43

CELLULAR IMMUNE RESPONSE IN INTESTINAL VILLI OF RATS AFTER CONSUMPTION OF ONION (*ALLIUM CEPA* L.) OR QUERCETIN

By Insani, EM¹, Mignaqui, Ac¹, Salomón, VM¹, Pazos, AA¹, Pighin, DG^{1,4}, Sucar, S¹, Roux, ME^{2,4} and Slobodianik, NH³,

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PANEL 44

ANTI-INFLAMMATORY ACTIVITY OF ETHANOL EXTRACTS FROM READY TO EAT STIR-FRIED CHICKEN WITH RED CURRY IN LIPOPOLYSACCHARIDE-INDUCED RAW264.7 MURINE MACROPHAGES.

By S Tuntipopipat, C Muangnoi and P Chingsuwanrote,

Institute of nutrition, Mahidol university, Putthamonthon4, Salaya, Nakhon-Pathom73170, Thailand.

PANEL 45

INTESTINAL IMMUNE SYSTEM OF RATS INFLUENCED BY ORAL ADMINISTRATION OF SHORT-CHAIN FRUCTO-OLIGOSACCHARIDES AND QUERCETIN

By Insani, EM¹, Mignaqui, AC¹, Pazos, AA¹, Roux, ME^{2,4} And Slobodianik, NH³,

¹Institute of Food Technology – INTA, Buenos Aires, Argentina, ²Laboratory of Cellular Immunology and ³Department of Nutrition - School of Pharmacy and Biochemistry, University of Buenos Aires, Buenos Aires, Argentina, ⁴CONICET

PANEL 46

IGA, CYTOKINES AND GROWTH FACTORS PROFILE IN TERM, PRETERM AND HIGH PRETERM HUMAN COLOSTRUM.

By C Ramírez-Santana^{1,3}, R Casillas^{1,3}, C Moltó-Puigmartí^{2,3}, X Carbonell-Estrany⁴, M Castell¹, MC López-Sabater^{2,3}, C Castellote^{1,3} and A Franch^{1,3},

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PANEL 47

BANKED HUMAN MILK TREATMENT AND IMMUNOACTIVE FACTORS CONTENT. COMPARISON WITH HIGH PRESSURE PROCESSING.

By A Franch^{1,3}, C Audí^{1,3}, C Ramírez-Santana^{1,3}, M Permanyer⁴, Fj Pérez-Cano¹, C Moltó-Puigmartí^{2,3}, MC López-Sabater^{2,3} and C Castellote^{1,3},

¹Department of Physiology, Faculty of Pharmacy, University of Barcelona, Spain, ²Department of Nutrition and Food Science, Faculty of Pharmacy, University of Barcelona, Spain, ³CIBER in Epidemiology and Public Health (CIBERESP), Spain, ⁴Food New Technologies and Processes Center (CENTA-IRTA), Monells (Girona), Spain

PANEL 48

DEVELOPMENT OF AN ORAL TOLERANCE MODEL IN RATS FOR INVESTIGATION OF BIOACTIVE FOOD COMPONENTS IN ORGANICALLY-GROWN CROPS.

By M. Jacobsen, H.R. Juul-Madsen, and C. Lauridsen,

Institute of Animal Health, Welfare and Nutrition, Research group in Immunology and Microbiology, Faculty of Agricultural Science, Aarhus University, 8830-Tjele, DK

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PANEL 49

CAFFEIC ACID AND INSTANT COFFEE MODULATE THE EXPRESSION OF TRANSCRIPTION FACTORS STAT5B AND ATF2 IN HUMAN CANCER CELLS.

By C Oleaga¹, E Selga¹, C Ciudad¹, M Izquierdo-Pulido² and V Noé¹.

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PANEL 50

EFFECT OF SEVERAL COCOA DIETS ON THE SYSTEMIC AND INTESTINAL HUMORAL IMMUNITY IN ADULT RATS.

By T Perez-Berezo, S Ramos-Romero, C Castellote, A Franch, FJ Perez-Cano and M Castell.

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PANEL 51

EFFECTS OF FR-91 ON IMMUNE CELLS FROM HEALTHY INDIVIDUALS AND PATIENTS WITH NON-HODGKIN LYMPHOMA

By V.R.M. Lombardi¹, E. Martinez², R. Chacon², I. Etcheverria¹ and R. Cacabelos¹.

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² Georgian Alternative Medicine, Madrid, Spain

PANEL 52

CYTOTOXICITY EFFECTS INDUCED BY FR-91 ON HUMAN TUMOR CELL LINES.

By V.R.M. Lombardi¹, E. Martinez², R. Chacon², I. Etcheverria¹ and R. Cacabelos¹.

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² Georgian Alternative Medicine, Madrid, Spain

PANEL 53

RANGE OF VARIATION FOR TOTAL ANTIOXIDANTS STATUS AND FEW METABOLITES IMPLICATED IN OXIDATIVE PROCESSES IN NEURODEGENERATIVE DISEASE

By I. Varga¹, A. M. Szabo², G. S. Popescu (Pintilie)³ and I. Ionescu⁴

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PANEL 54

PROTECTIVE ROLE OF SARDINE PROTEIN (SARDINA PILCHARDUS) AGAINST HIGH FRUCTOSE-INDUCED METABOLIC SYNDROME RAT.

By Z. Madani¹, D Ait Yahia¹, F Boukourt¹, K Louchami², A Sener² and M Bouchenak¹,

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PANEL 55

EVALUATION OF ALLERGENIC POTENTIAL OF PROTEIN INGREDIENTS THROUGH IN VITRO METHODS

By J Belloque¹, R Chicón¹, F I Bravo¹, R López-Fandiño, I Recio¹, J Puigjaner² and M Rivero²,

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TOPIC 10: LIPIDS AND THE IMMUNE SYSTEM

PANEL 56

LONG-TERM EFFECTS OF MATERNAL FISH OIL INTAKE IN YOUNG PIGS CHALLENGED WITH LIPOPOLYSACCHARIDE

By AS Souza¹, JE Bolhuis¹, WJJ Gerrits² and A Lammers¹,

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PANEL 57

GENE EXPRESSION PROFILES IN RAT MESENTERIC LYMPH NODES UPON SUPPLEMENTATION WITH CONJUGATED LINOLEIC ACID DURING GESTATION AND SUCKLING.

By E Selga^{1,4}, FJ Pérez-Cano^{2,4}, A Franch^{2,4}, M Castell^{2,4}, M Rivero³, CJ Ciudad^{1,4}, C. Castellote^{2,4}, V Noé^{1,4}.

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PANEL 58

DIET ENRICHED WITH *CIS9,TRANS11* CLA ISOMER REGULATES SPLEEN PROLIFERATIVE IMMUNE RESPONSE IN RATS.

By C Ramírez-Santana^{1,2}, A Franch^{1,2}, M Castell¹, M Rivero³, M Rodríguez-Palmero³, C Castellote^{1,2} and FJ Pérez-Cano¹.

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PANEL 59

EICOSAPENTAENOIC ACID (EPA) PREVENTS TNF- α -INDUCED NF- κ B AND ERK 1/2 ACTIVATION IN 3T3-L1 ADIPOCYTES

By S. Lorente-Cebrián¹, M. Bustos², A. Martí¹, J. A. Martínez¹ and M. J. Moreno-Aliaga¹,

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PANEL 60

SALMON IN PREGNANCY STUDY (SIPS): THE EFFECTS OF INCREASED OILY FISH INTAKE DURING PREGNANCY ON MATERNAL PERIPHERAL BLOOD MONONUCLEAR CELL FATTY ACID COMPOSITION AND CYTOKINE RESPONSES

By L-S Kremmyda, M Vlachava, PS Noakes, EA Miles, ND Diaper and PC Calder, Institute of Human Nutrition and DOHaD Division, School of Medicine, University of Southampton, IDS Building, Southampton General Hospital, Southampton SO16 6YD, United Kingdom.

PANEL 61

THE EFFECTS OF INCREASED OILY FISH INTAKE DURING PREGNANCY ON MATERNAL LYMPHOCYTE CELL SUBSETS - RESULTS FROM THE SALMON IN PREGNANCY STUDY (SIPS)

By L-S Kremmyda, M Vlachava, PS Noakes, EA Miles, ND Diaper and PC Calder, Institute of Human Nutrition and DOHaD Division, School of Medicine, University of Southampton, IDS Building, Southampton General Hospital, Southampton SO16 6YD, United Kingdom.

PANEL 62

THE EFFECT OF INCREASING LEVELS OF FISH OIL ON SOME IMMUNE RESPONSES OF BROILER CHICKENS

By HS Al-Khalifa¹, C Rymer¹, I Givens¹ and P Yaqoob²,

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PANEL 63

INCORPORATION OF N-3 POLYUNSATURATED FATTY ACIDS INTO HUMAN PERIPHERAL BLOOD MONONUCLEAR CELLS ACCORDING TO INTAKES REPRESENTING CONSUMPTION OF OILY FISH ONE, TWO OR FOUR TIMES PER WEEK OVER TWELVE MONTHS

By AL West¹, J Madden¹, CG Walker², LM Browning², SA Jebb² and PC Calder¹,

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PANEL 64

EFFECTS OF A FISH OIL EMULSION ON PLASMA FREE FATTY ACIDS, CYTOKINES, AND CLINICAL OUTCOMES IN SEPTIC PATIENTS: A RANDOMIZED, CONTROLLED, CLINICAL TRIAL

By V. M. Barbosa^{*1}, E. Lafuente², C. Calhau³, E. A. Miles¹ and P. C. Calder¹

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PANEL 65

THE EFFECT OF A HIGH FAT OR HIGH CARBOHYDRATE DIET ON THE IMMUNE SYSTEM OF YOUNG Balb/c MICE.

By Martínez-Carrillo BE^{1,2}, Jarillo-Luna RA², Rivera-Aguilar V², Campos-Rodríguez R², Pardo-Morales RV¹, Jiménez-López D¹ and Valdés-Ramos R¹.

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PANEL 66

DIETARY MODIFICATION OF B LYMPHOCYTES

Martínez-Carrillo BE^{1,2}, Jarillo-Luna RA², Rivera-Aguilar V², Campos-Rodríguez R², Pardo-Morales RV¹, Rosales-Gómez C, Valdés-Ramos R¹.

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PANEL 67

ROLE OF N-6 PUFA DERIVED LIPID MEDIATORS ON EPITHELIAL BARRIER FUNCTION IN INTESTINAL CACO-2 CELL MONOLAYERS

By M.J. Rodríguez-Lagunas, R. Martín-Venegas, J.J. Moreno and R. Ferrer,

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PANEL 68

EFFECTS OF ARACHIDONIC AND EICOSAPENTAENOIC ACID DERIVED EICOSANOIDS ON POLYMORPHONUCLEAR TRANSMIGRATION

By J.J. Moreno,

Departamento de Fisiología, Facultad de Farmacia, Universidad de Barcelona, Avda. Joan XXIII s/n, 08028 Barcelona and Instituto de Investigación en Nutrición y Seguridad Alimentaria(UB)

PANEL 69

EFFECT OF N-3 AND N-6 EICOSANOIDS ON INTESTINAL CACO-2 CELL GROWTH

By M. Cabral, R. Martín-Venegas and J.J. Moreno,

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SALMON IN PREGNANCY STUDY (SIPS): THE EFFECTS OF INCREASED OILY FISH INTAKE DURING PREGNANCY ON CORD BLOOD MONONUCLEAR CELL (CBMC) FATTY ACID COMPOSITION AND CYTOKINE RESPONSES.

By M Vlachava, L-S Kremmyda, Nd Diaper, PS Noakes, EA Miles and PC Calder, Institute of Human Nutrition and DOHaD Division, School of Medicine, University of Southampton, IDS Building, Southampton General Hospital, Southampton SO16 6YD, UK.

PANEL 71

SALMON IN PREGNANCY STUDY (SIPS): INCREASED OILY FISH INTAKE DURING PREGNANCY, CORD BLOOD PLASMA IMMUNOGLOBULIN E (IGE) AND INTERLEUKIN-13 (IL-13) CONCENTRATIONS AND CLINICAL OUTCOMES IN INFANTS AT HIGH RISK OF ATOPY.

By M Vlachava, L-S Kremmyda, ND Diaper, PS Noakes, EA Miles and PC Calder, Institute of Human Nutrition and DOHaD Division, School of Medicine, University of Southampton, IDS Building, Southampton General Hospital, Southampton SO16 6YD, UK.

PANEL 72

EFFECTS OF SARDINE OIL AND MILK LIPIDS ON OXIDATIVE STRESS AND INFLAMMATION MARKERS IN DIET-INDUCED HYPERCHOLESTEROLEMIC RATS

By F Dehiba¹, A Benyahia-Mostefaoui¹, HM Kelladi, A Boualga¹, MY Lamri-Senhadji¹ and M Bouchenak¹.

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PANEL 73

INFLUENCE OF MEMBRANE FATTY ACID COMPOSITION ON CELL VIABILITY AND LIPID PEROXIDATION IN A CELL MODEL (AR42J) OF CERULEIN-INDUCED ACUTE PANCREATITIS

By C. Santana, M. B. López-Millán, M. A. Martínez-Burgos, M. Mañas, E. Martínez-Victoria and M. D. Yago, Department of Physiology, Institute of Nutrition and Food Technology "J. Mataix", University of Granada, Centre for Biomedical Research at the Health Sciences Technology Park, Granada, Spain

PANEL 74

EFFECTS OF A PRO-OXIDANT DIETARY SUPPLEMENT ON CELL MEDIATED IMMUNITY IN BROILERS

By I. Scurtu, G. Giurgiu, M. Mircean, M. Spanu, C. Sandru, M. Niculae and L. Livitchi, USAMV Cluj, Manastur Street, No.3-5, Cluj-Napoca, Romania

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MULTIVITAMIN SUPPLEMENTATION REDUCES SICK BUILDING SYNDROME IN EMPLOYEES IN JAKARTA, INDONESIA.

By B Haryanto¹ and H Purnama²

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PANEL 76

INFLUENCE OF VITAMIN B₁₂ STATUS AND DIFFERENT DIETARY LEVELS OF FOLIC ACID ON SEVERAL IMMUNE PARAMETERS IN AGED RATS.

By T. Partearroyo¹, N. Úbeda¹, M. Achón¹, A. Montero¹, M. De La Fuente², N.M. De Castro², E. Alonso-Aperte¹ and G. Varela-Moreiras¹,

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THIOREDOXIN REDUCTASE ATTENUATES VASCULAR INFLAMMATORY RESPONSES DURING OXIDATIVE STRESS.

By LM Sordillo, JC Gandy, and CM Corl,
College of Veterinary Medicine, Michigan State University, East Lansing, MI USA.

PANEL 78

PREMATURE AGING AND INFLAMMATORY STATUS OF OVARIETOMIZED MICE. TREATMENT WITH SOYBEAN ISOFLAVONES AND GREEN TEA.

By I. Baeza, N.M. De Castro and M. De La Fuente,
Department of Physiology, Faculty of Biology, Complutense University of Madrid. Madrid, Spain.

PANEL 79

TRYPTOPHAN ADMINISTRATION IN RATS ENHANCES PHAGOCYtic FUNCTION AND REDUCES OXIDATIVE METABOLISM.

By S. Sánchez-Mateos, AB. Rodríguez Moratinos and C. Barriga Ibars.
Department of Physiology, Faculty of Science, University of Extremadura, Badajoz, Spain.

PANEL 80

NO EFFECT OF VITAMIN D SUPPLEMENTATION ON SERUM FIBRINOGEN CONCENTRATIONS IN ADULTS AGED ≥64 YEARS

By MS Barnes¹, LK Forsythe¹, G Horigan¹, MP Bonham¹, EM Duffy¹, TR Hill², AJ Lucey², KD Cashman², M Kiely², JJ Strain¹ and JMW Wallace¹,

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PANEL 81

ZN²⁺-DEFICIENCY IN CRITICALLY ILL PATIENTS WITH SIRS IS LINKED TO MG AND OXIDATIVE STATUS

By E Planells¹, D. Florea¹, M García-Ávila¹, E Millán¹, L Sáez¹, M Rodríguez-Elvira², B Quintero³, C Soler⁴, C Cabeza³, Gonzalez-Diaz F, González-Martín, and P Aranda¹

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