



Joint Event on
**Nutraceuticals &
Diet-Nutrition 2018**

May 14-15, 2018
Singapore City, Singapore



Speaker Representations



Collaboration



Media Partners



Exhibitor



Conference Agenda



Day 1 May 14, 2018

08:00-08:30 Registrations

Conference Hall: Seletar Room 2, Level 3

08:30-08:45 Opening Ceremony

08:45-09:00 Introduction

Keynote Forum

9:00-9:45

Title: New approaches for the development of functional botanical ingredients for innovative products

Jat Rana, Innophos Holdings Inc., USA

Special Session

9:45-10:30

Title: The role of nutrition in cancer treatment and prevention- From bench to clinic
Simon Hsia Houn, Do well Laboratories Inc., USA

Networking & Refreshment Break, 10:30-10:50 @ Seletar Foyer

Group Photos

Oral Session 1

Session Introduction

Sessions:

Dietary Supplements | Functional Foods | Nutraceuticals in Weight Management | Nutraceuticals and Natural Medicine Products | Delivery and Dosage Technologies | Pediatric Nutrition

Session Chair: Chandan Prasad, Texas Woman's University, USA

Session Co-chair: Jat Rana, Innophos Holdings Inc., USA

Session Introduction

10:50-11:20

Title: Preparation of fast-dissolving quercetin nanoformulations

Jun Hu, A*STAR, Singapore

11:20-11:50

Title: Obese children crave food and they will do anything to have it

Jessica J Lee, Griffith University, Singapore

11:50-12:20

Title: Effects of anti-oxidants on oxidative stress

Sundardas Dharmadas Annamalay, Natural Therapies Research Centre, Singapore

12:20-12:50

Title: Neuroprotective effects of Gum Arabic in the ageing brain of type 2 diabetic rats:

Interim analysis

Rajab E, RCSI, Bahrain

Lunch Break: 12:50 -13:50 @ Atrium Restaurant at Level 4

Workshop

13:50-15:30

Title: Innovative Ingredients for a Better Health?

Food Industry Asia, Singapore

Oral Session 1 Contd.

15:30-16:00

Title: Nutritional transition, a risk factor for cancer

Madhu Sharma, PGIMER, India

Networking & Refreshment Break, 16:00-16:20 @ Seletar Foyer

16:20-16:50

Title: New therapeutic approach, new delivery mechanism

Mohammad Sharif Sharifi, Australian Food and Pharmaceutical Industries, Australia

16:50-17:20

Title: Nutraceuticals as Pharmaceuticals - A new therapeutic approach: Delivery and dosage technologies

Shefali Thanawala, Inventia Healthcare Pvt. Ltd., India

Panel Discussion

Nutraceuticals and Diet-Nutrition 2018

Day 2 May 15, 2018

Conference Hall: Seletar Room 2, Level 3

Keynote Forum

10:00-10:45 **Title: Symbiotic soups**
S Narasimhan, Asthagiri Herbal Research Foundation, India

Networking & Refreshment Break, 10:45-11:05 @ Seletar Foyer

11:05-11:50 **Title: Agri-byproducts unexplored resources for future prebiotics**
Chandan Prasad, Texas Woman's University, USA

Sessions:

Probiotics and Prebiotics Nutritional Disorders | Delivery and Dosage Technologies | Recent Trend in Nutraceuticals Research

Session Chair: S Narasimhan, Asthagiri Herbal Research Foundation, India

Session Co-chair: Jat Rana, Innophos Holdings Inc., USA

11:50-12:20 **Title: Prevention of Type 2 diabetes by nutraceuticals: Adaptation to pathophysiology**
Nicolas Wiernsperger, Association Remedes and Lyon University, France

12:20-12:50 **Title: Effect of 8 weeks of n-3 fatty-acids supplementation on oxidative stress and inflammation in Athletes of middle and long distance running**
Buonocore D, University of Pavia, Italy

12:50-13:20 **Title: Extraction and evaluation of nutraceutical molecules in wastes of fruits and vegetables**
Doria E, University of Pavia, Italy

Lunch Break: 13:20-14:20 @ Atrium Restaurant at Level 4

Poster Presentations: 14:20-15:10

Poster Judge: S Narasimhan, Asthagiri Herbal Research Foundation, India

D&N 1 **Title: *Anethum graveolens* mitigates vascular dementia: Role of oxidative stress and eNOS**

Supaporn Muchimapura, Khon Kaen University, Thailand

D&N 2 **Title: The protective effect against diabetic nephropathy of *Nelumbo nucifera* in Streptozotocin rats**

Panakaporn Wannannon, Khon Kaen University, Thailand

D&N 3 **Title: The protective effect against cataract and retinopathy of ICAM601, the polyphenol-rich supplement, in Streptozotocin rats**

Wipawee Thukham-mee, Khon Kaen University, Thailand

D&N 4 **Title: Microencapsulation of mulberry fruit extract reduced metabolic disorders in animal model of menopause with metabolic syndrome**

Jintanaporn Wattanathorn, Khon Kaen University, Thailand

D&N 5 **Title: High antioxidant and high fiber cashew based functional drink improves lipid profiles, atherogenic index and cerebral ischemia in obese rats**

Pratthana Srichomphu, Khon Kaen University, Thailand

D&N 6 **Title: ICAM611, a polyphenol-rich supplement, attenuates brain damage and dysfunction induced by cerebral ischemia in animal model of metabolic syndrome**

Warin Ohn-on, Khon Kaen University, Thailand

D&N 7 **Title: Phenolic compounds and antioxidant activity of ethanolic extracts of Adzuki beans according to cultivar**

Ji Hae Lee, National Institute of Crop Science, Korea

Nutraceuticals and Diet-Nutrition 2018

- D&N 8** Title: Antioxidant components and antioxidant activity of black soybean with cooking method and mixing ratio
Hyun-Joo Kim, National Institute of Crop Science, Korea
- D&N 9** Title: Extraction and evaluation of nutraceutical molecules in wastes of fruits and vegetables
Buonocore D, University of Pavia, Italy

Oral Session 2 Contd.

- 15:10-15:40** Title: Smart food policies for promoting healthy lifestyle among children and adolescents
Sima Hamadeh, Haigazian University, Lebanon
- 15:40-16:10** Title: Binge eating disorder and compulsive/emotional overeating in men and women: An overview of predisposing, precipitating and perpetuating factors and gender differences in clinical conceptualization and psychotherapy
Genziana Lay, Private practice, Italy

Networking & Refreshment Break: 16:10-16:30 @ Seletar Foyer

Panel Discussion

Closing Remark by Moderator



Book Mark Dates

2nd International Conference on NUTRACEUTICALS

March 11-12, 2019 | Osaka, Japan





Joint Event on

Nutraceuticals & Diet-Nutrition 2018

May 14-15, 2018 | Singapore City, Singapore

Upcoming Conferences

 <p>Agri & Food Science</p>	<p>European Food & Nutrition Congress October 22-23, 2018 Vienna, Austria W: www.meetingsint.com/conferences/food-nutrition</p>	<p>International Conference on Annual Next-Gen Regenerative Medicine & Tissue Engineering Conference September 20-21, 2018 Osaka, Japan W: www.meetingsint.com/conferences/tissueengineering</p>
<p>International Conference on Nutraceuticals May 14-15, 2018 Singapore City, Singapore W: www.meetingsint.com/conferences/nutrition-diet</p>	<p>International Conference on Plant Science October 25-27, 2018 Paris, France W: www.meetingsint.com/conferences/plantscience</p>	<p>International Conference on Annual Biomarker Conference September 20-21, 2018 Osaka, Japan W: www.meetingsint.com/conferences/biomarkers</p>
<p>International Conference on Global Diet and Nutrition Meeting May 14-15, 2018 Singapore City, Singapore W: www.meetingsint.com/pharma-conferences/nutraceuticals</p>	<p>International Conference on Food Chemistry & Technology October 29-30, 2018 Amsterdam, Netherlands W: www.meetingsint.com/conferences/foodchemistry</p>	<p>International Conference on Nano Science & Technology September 24-25, 2018 Dubai, UAE W: www.meetingsint.com/conferences/nanoscience</p>
<p>International Conference on Aquaculture & Marine Biology June 25-27, 2018 Rome, Italy W: http://www.meetingsint.com/agri-aqua-conferences/aquaculture</p>	<p>International Conference on Food Safety, Quality & Policy November 03-04, 2018 Dubai, UAE W: www.meetingsint.com/conferences/foodsafety-quality</p>	<p>International Conference on Biomedical and Health Informatics October 04-05, 2018 Las Vegas, USA W: www.meetingsint.com/conferences/biomedical-healthinformatics</p>
<p>International Conference on Veterinary & Animal Science August 06-07, 2018 Dubai, UAE W: www.meetingsint.com/veterinary-conferences/animalscience</p>	<p>International Conference on Food Processing, Packaging & Marketing November 26-27, 2018 Osaka, Japan W: www.meetingsint.com/conferences/foodprocessing</p>	<p>World Congress on Telemedicine & Medical Informatics October 04-05, 2018 Las Vegas, USA W: www.meetingsint.com/conferences/biomedical-healthinformatics</p>
<p>International Conference on Food & Beverages August 06-07, 2018 Tokyo, Japan W: www.meetingsint.com/conferences/food-beverages</p>	 <p>Biotechnology</p>	
<p>International Conference on Biocontrol, Biostimulants & Microbiome September 06-07, 2018 Zurich, Switzerland W: www.meetingsint.com/conferences/biocontrol-biostimulants</p>	<p>International Conference on Nano Technology and Nano Engineering July 16-18, 2018 Paris, France W: www.meetingsint.com/pharma-conferences/nanomedicine-nanotechnology</p> <p>International Synthetic Biology Conference July 16-17, 2018 Paris, France W: www.meetingsint.com/conferences/syntheticbiology</p>	<p>International Conference on European Life Science Innovation & Biomedical Technology Congress October 24-25, 2018 London, UK W: www.meetingsint.com/conferences/lifescience-innovation</p>
<p>International Conference on Plant & Soil Sciences September 17-19, 2018 Osaka, Japan W: www.meetingsint.com/conferences/plant-soilscience</p>	<p>International Conference on Cell & Stem Cell Research August 17-18, 2018 Singapore City, Singapore W: www.meetingsint.com/conferences/stemcellresearch</p>	<p>International Conference on Structural Biology October 22-23, 2018 Rome, Italy W: www.meetingsint.com/conferences/structuralbiology</p>
<p>International Conference on Animal Health & Veterinary Medicine September 20-21, 2018 Osaka, Japan W: www.meetingsint.com/conferences/animalhealth</p>	<p>International Conference on Biosensors and Bioelectronics August 20-21, 2018 Chicago, USA W: www.meetingsint.com/conferences/biosensor-bioelectronics</p>	<p>International Conference on Molecular Biology & Biochemistry October 22-23, 2018 Rome, Italy W: www.meetingsint.com/conferences/molecularbiology-biochemistry</p>
<p>International Conference on Agriculture & Horticulture September 24-25, 2018 September 24-25, 2018 W: www.meetingsint.com/conferences/agriculture-horticulture</p>	<p>International Conference on Biopolymers & Bioplastics August 29-30, 2018 Berlin, Germany W: www.meetingsint.com/chemical-engineering-conferences/biopolymers</p>	<p>International Conference on Biotechnology October 25-26, 2018 Rome, Italy W: www.meetingsint.com/conferences/biotechnology</p>
<p>International Conference on Nutrition October 01-03, 2018 Las Vegas, USA W: www.meetingsint.com/conferences/nutrition</p>	<p>International Conference on Annual Next Generation Sequencing & Clinical Diagnostics Congress September 17-18, 2018 Chicago, USA W: www.meetingsint.com/conferences/ngs</p>	<p>International Conference on Genome Editing & Engineering October 25-26, 2018 Chicago, USA W: www.meetingsint.com/conferences/genomeediting</p>
		<p>International Conference on Bioinformatics & System Biology November 21-22, 2018 Las Vegas, USA W: www.meetingsint.com/conferences/bioinformatics</p>

World Congress on Nano Technology and Engineering November 21-22, 2018 Las Vegas, USA W: www.meetingsint.com/conferences/nanotech	International Conference on Petroleum Engineering August 06-07, 2018 Dubai, UAE W: http://www.meetingsint.com/chemical-engineering-conferences/petroleum	International Conference on Robotic Research December 05-06, 2018 Dubai, UAE W: www.meetingsint.com/conferences/robotics
International Conference on Proteomics & Bioinformatics November 26-27, 2018 Osaka, Japan W: www.meetingsint.com/conferences/proteomics	International Congress on Microfluidics August 13-14, 2018 San Diego, USA W: www.meetingsint.com/conferences/microfluidics	
International Conference on Annual Peptide Congress November 26-27, 2018 Osaka, Japan W: www.meetingsint.com/conferences/peptide	Annual Conference on 3D printing & Bio-printing in Healthcare August 20-21, 2018 Singapore City, Singapore W: www.meetingsint.com/conferences/3dprinting	2nd International Meeting on Nursing Research and Evidence Based Practice March 19-20, 2018 Singapore City, Singapore W: www.meetingsint.com/nursing-conferences/nursing-research
International Conference on Nanotechnology December 03-05, 2018 Sydney, Australia W: www.meetingsint.com/conferences/nanotech	International Conference on Materials Research & Development October 29-30, 2018 Prague, Czech Republic W: www.meetingsint.com/conferences/materials	International Conference on HIV/AIDS, STDs & STIs June 18-20, 2018 Paris, France W: www.meetingsint.com/infectious-diseases-conferences/std-aids
	International Conference on Mechatronics & System Engineering October 22-23, 2018 Tokyo, Japan W: www.meetingsint.com/conferences/mechatronics	International Conference on Nuclear Medicine & Radiation Therapy July 16-17, 2018 Madrid, Spain W: www.meetingsint.com/conferences/nuclearmedicine
World Congress on Applied Microbiology August 13-14, 2018 Rome, Italy W: www.meetingsint.com/conferences/appliedmicrobiology	International Conference on Artificial Intelligence Congress October 25-26, 2020 Amsterdam, Netherlands W: www.meetingsint.com/conferences/artificialintelligence	International Conference on Vaccines & Vaccination July 23-24, 2018 Osaka, Japan W: www.meetingsint.com/conferences/vaccine
World Congress on Clinical & Medical Microbiology August 13-14, 2018 Rome, Italy W: www.meetingsint.com/conferences/clinical-medicalmicrobiology	International Conference on Structural Design & Infrastructure Development November 05-06, 2018 Dubai, UAE W: www.meetingsint.com/conferences/structuraldesign	International Meeting on Traditional & Alternative Medicine July 23-24, 2018 Osaka, Japan W: www.meetingsint.com/conferences/traditionalmedicine
International Conference on Forensic Research & Technology September 17-18, 2018 Osaka, Japan W: www.meetingsint.com/conferences/forensicresearch	International Conference on Information System Security & Privacy November 19-20, 2018 Las Vegas, USA W: www.meetingsint.com/conferences/syntheticbiology	International Conference on Pain Management August 13-14, 2018 Rome, Italy W: www.meetingsint.com/conferences/painmanagement
International Conference on Clinical & Medical Case Reports December 03-04, 2018 Dubai, UAE W: www.meetingsint.com/conferences/clinicalcasereport	International Conference on Cell & Stem Cell Research August 17-18, 2018 Singapore City, Singapore W: www.meetingsint.com/conferences/cyber-security	World Congress on Antibiotics August 13-14, 2018 Rome, Italy W: www.meetingsint.com/conferences/antibiotics
	Annual Congress on Bioprocessing of Advanced Cellular Therapies December 03-04, 2018 Dubai, UAE W: www.meetingsint.com/conferences/bioprocess	International Conference on Medical & Surgical Nursing August 17-18, 2018 Singapore City, Singapore W: www.meetingsint.com/conferences/medicalnursing
International Conference on Materials Science & Engineering June 25-26, 2018 Rome, Italy W: www.meetingsint.com/conferences/materialscience		International Conference on Acupuncture and Oriental Medicine September 17-18, 2018 Chicago, USA W: www.meetingsint.com/conferences/acupuncture
International Conference on Biofuels & Bioenergy July 16-17, 2018 Madrid, Spain W: www.meetingsint.com/conferences/biofuel-bioenergy		

<p>International Conference on Stress & Depression Management September 24-25, 2018 Dubai, UAE W: www.meetingsint.com/conferences/stressmanagement</p>	<p>Annual Healthcare Congress October 29-30, 2018 Amsterdam, Netherlands W: www.meetingsint.com/conferences/healthcare</p>	<p>World Congress on Neurology & Psychiatry June 18-19, 2018 Tokyo, Japan W: www.meetingsint.com/conferences/neurology</p>
<p>International Conference on Nursing and Emergency Care September 26-27, 2018 Dubai, UAE W: http://www.meetingsint.com/nursing-conferences/nursingcare</p>	<p>International Conference on Hepatitis October 29-30, 2018 Amsterdam, Netherlands W: www.meetingsint.com/conferences/hepatitis</p>	<p>International Conference on Gastroenterology and Endoscopy June 18-19, 2018 Tokyo, Japan W: www.meetingsint.com/conferences/gastroenterology-endoscopy</p>
<p>Vaccine R&D: International Vaccine Congress October 29-30, 2018 Prague, Czech Republic W: www.meetingsint.com/conferences/vaccineresearch</p>	<p>International Conference on Wound Care, Tissue Repair & Regenerative Medicine October 29-30, 2018 Amsterdam, Netherlands W: www.meetingsint.com/conferences/woundcare</p>	<p>International Conference on World Nephrology Congress June 25-26, 2018 Toronto, Canada W: www.meetingsint.com/conferences/diabetes-healthcare</p>
<p>International Conference on Nursing Education & Practice October 01-03, 2018 Las Vegas, USA W: www.meetingsint.com/conferences/nursing-education</p>	<p>International Conference on Public Health & Nutrition November 05-06, 2018 Dubai, UAE W: www.meetingsint.com/healthcare-conferences/public-health</p>	<p>International Conference on Cancer Therapy July 23-24, 2018 Osaka, Japan W: www.meetingsint.com/conferences/cancertherapy</p>
<p>International Healthcare Simulation Conference October 22-23, 2018 London, UK W: www.meetingsint.com/conferences/healthcare-simulation</p>	<p>World Congress on Infection, Prevention and Control November 28-29, 2018 Madrid, Spain W: www.meetingsint.com/conferences/infectioncontrol</p>	<p>International Conference on Surgery and Anaesthesia August 06-07, 2018 Tokyo, Japan W: www.meetingsint.com/conferences/surgery</p>
<p>World Congress on Midwifery and Women's Health October 25-27, 2018 London, UK W: www.meetingsint.com/conferences/midwifery</p>	<p>3rd International Meeting on Nursing Research and Evidence Based Practice November 28-29, 2018 Madrid, Spain W: www.meetingsint.com/nursing-conferences/nursing-research</p>	<p>International Conference on Addiction Research & Therapy August 13-14, 2018 San Diego, USA W: www.meetingsint.com/conferences/addictionresearch</p>
<p>Annual Precision Medicine & Big Data Congress October 22-23, 2018 Vancouver, Canada W: www.meetingsint.com/conferences/precisionmedicine</p>	<p>World Congress on Nursing Practice and Research November 26-27, 2018 Osaka, Japan W: www.meetingsint.com/conferences/nursingpractice</p>	<p>International Conference on Central Nervous System Disorder & Therapeutics August 13-14, 2018 Rome, Italy W: www.meetingsint.com/neuroscience-conferences/cns</p>
<p>International Conference on Medical Imaging and Clinical Research October 29-30, 2018 Venice, Italy W: www.meetingsint.com/conferences/medicalimaging</p>	<p>World Congress on Health and Medical Sociology November 26-27, 2018 Osaka, Japan W: www.meetingsint.com/conferences/medicalsociology</p>	<p>International Conference on Clinical Diabetes, Diabetic Medication & Treatment August 17-18, 2018 Singapore City, Singapore W: www.meetingsint.com/conferences/clinicaldiabetes</p>
<p>Annual Next Gen Immuno-Oncology Congress October 25-27, 2018 Paris, France W: www.meetingsint.com/conferences/immuno-oncology</p>	<p>International Pathology Congress December 06-07, 2018 Sydney, Australia W: www.meetingsint.com/conferences/pathologynanotechnology</p>	<p>Annual Conference on Nephrology & Urology August 20-21, 2018 Chicago, USA W: www.meetingsint.com/conferences/nephrology-urology</p>
<p>International Immunology Conference October 25-27, 2018 Paris, France W: www.meetingsint.com/conferences/immunology</p>	 <p>Medical Science</p>	<p>International Heart Conference August 13-15, 2018 Singapore City, Singapore W: www.meetingsint.com/conferences/heart</p>
<p>Annual Congress on Infectious Disease & STD-AIDS October 25-26, 2018 Chicago, USA W: www.meetingsint.com/conferences/infectious-disease</p>	<p>Global Experts Meeting on Plastic & Aesthetic Surgery May 14-15, 2018 Singapore City, Singapore W: www.meetingsint.com/surgery-conferences/plastic-surgery</p>	<p>International Conference on Dementia & Dementia Care August 20-22, 2018 Singapore City, Singapore W: www.meetingsint.com/conferences/dementia</p>

International Conference on Clinical & Experimental Ophthalmology August 29-30, 2018 Berlin, Germany W: www.meetingsint.com/conferences/clinicalophthalmology	International Conference on Geriatrics And Gerontology October 22-23, 2018 Vancouver, Canada W: www.meetingsint.com/conferences/geriatrics	International Conference on Dental & Oral Health November 26-27, 2018 Madrid, Spain W: www.meetingsint.com/conferences/dental
International Conference on Orthopedics & Advanced Care September 24-25, 2018 Dubai, UAE W: www.meetingsint.com/conferences/orthopedics	International Conference on Pulmonary Medicine & Respiratory Disease October 22-23, 2018 Rome, Italy W: www.meetingsint.com/conferences/pulmonarymedicine	International Conference on Diabetes and Healthcare November 26-27, 2018 Dubai, UAE W: www.meetingsint.com/conferences/diabetes-healthcare
Annual Congress on Emergency Medicine & Critical Care September 24-25, 2018 Dubai, UAE W: www.meetingsint.com/conferences/emergencymedicine	Diabetes R&D: Annual Diabetes Congress October 25-26, 2018 Rome, Italy W: www.meetingsint.com/conferences/diabetes	International Conference on Brain Stimulation November 26-27, 2018 Tokyo, Japan W: www.meetingsint.com/conferences/brain-stimulation
Annual Congress on Neuroscience & Therapeutics September 24-25, 2018 Toronto, Canada W: www.meetingsint.com/conferences/neuroscience-therapeutics	International Conference on Pediatrics October 29-30, 2018 Venice, Italy W: www.meetingsint.com/conferences/pediatrics	International Conference on Eye And Vision November 26-27, 2018 Tokyo, Japan W: www.meetingsint.com/conferences/eye
International Conference on Obesity & its Treatment October 01-03, 2018 Las Vegas, USA W: www.meetingsint.com/conferences/obesity	International Conference on Cardiology & Cardiac Nursing October 25-27, 2018 Paris, France W: www.meetingsint.com/conferences/cardiology	International Conference on Oncology & Radiology December 03-04, 2018 Sydney, Australia W: www.meetingsint.com/conferences/oncology
International Conference on Hypertension & Cardiology October 04-05, 2018 Las Vegas, USA W: www.meetingsint.com/conferences/hypertension	International Conference on Gynecology & Obstetrics October 25-26, 2018 Amsterdam, Netherlands W: www.meetingsint.com/conferences/gynecology	International Conference on Neuro Surgery & Therapeutics December 06-07, 2018 Sydney, Australia W: www.meetingsint.com/conferences/neurosurgery
International Conference on Clinical & Experimental Dermatology October 04-05, 2018 Las Vegas, USA W: www.meetingsint.com/conferences/clinicaldermatology	Annual High Potent Medicines Conference October 25-26, 2021 Amsterdam, Netherlands W: www.meetingsint.com/conferences/potentmedicines	World Congress on Women's Health December 10-11, 2018 Melbourne, Australia W: www.meetingsint.com/conferences/womenhealth
International Conference on Cardiology & Cardiac Surgery October 22-23, 2018 Vienna, Austria W: www.meetingsint.com/conferences/cardiacsurgery	International Conference on Dentistry November 03-04, 2018 Dubai, UAE W: www.meetingsint.com/conferences/dentistry	International Conference on Cosmetology & Trichology December 10-11, 2018 Melbourne, Australia W: http://www.meetingsint.com/surgery-conferences/cosmetology
International Conference on Digestive Disease October 22-23, 2018 London, UK W: www.meetingsint.com/conferences/digestivedisease	International Conference on Gastroenterology November 05-06, 2018 Dubai, UAE W: www.meetingsint.com/conferences/gastroenterology	Annual Cardiologist Meeting December 05-06, 2018 Dubai, UAE W: www.meetingsint.com/conferences/cardiologist
International Conference on Endocrinology & Endocrine Disorder October 22-23, 2018 London, UK W: www.meetingsint.com/conferences/endocrinology	International Conference on Neonatology & Pediatrics November 19-20, 2018 Las Vegas, USA W: www.meetingsint.com/conferences/neonatology	
International Conference on Breast Cancer October 22-23, 2018 Vancouver, Canada W: www.meetingsint.com/conferences/breastcancer	International Conference on Dental Science & Advanced Dentistry November 21-22, 2018 Las Vegas, USA W: www.meetingsint.com/conferences/dental-science	

World Congress on Bioavailability & Bioequivalence: BA/BE Studies Summit August 06-07, 2018 Tokyo, Japan W: www.meetingsint.com/conferences/bioavailability-bioequivalence	International Conference on Global Summit on Toxicology July 16-17, 2018 Madrid, Spain W: www.meetingsint.com/conferences/toxicology	World Congress on Materials Research & Technology October 22-24, 2018 Tokyo, Japan W: www.meetingsint.com/conferences/materialsresearch
World Biosimilars Congress August 20-21, 2018 Chicago, USA W: www.meetingsint.com/conferences/biosimilar	International Conference on Renewable & Non-renewable Energy July 16-17, 2018 Las Vegas, USA W: www.meetingsint.com/conferences/energy	International Conference on Applied Physics and Mathematics October 22-24, 2018 Tokyo, Japan W: www.meetingsint.com/conferences/appliedphysics-mathematics
International Conference on Clinical Pharmacy September 06-07, 2018 Zurich, Switzerland W: www.meetingsint.com/conferences/clinicalpharmacy	International Conference on Lasers, Optics & Photonics July 25-26, 2018 Osaka, Japan W: www.meetingsint.com/conferences/optics	World Congress on Chromatography October 25-26, 2018 Rome, Italy W: www.meetingsint.com/conferences/chromatography
Annual Pharma Pricing & Marketing September 26-27, 2018 Dubai, UAE W: www.meetingsint.com/conferences/pharma-market	World Congress & Exhibition on Recycling August 29-30, 2018 Berlin, Germany W: www.meetingsint.com/conferences/recycling	International Summit on Current Trends In Mass Spectrometry October 29-30, 2018 Venice, Italy W: www.meetingsint.com/conferences/massspectrometry
International Conference on Clinical Trials & Clinical Research September 24-25, 2018 Toronto, Canada W: www.meetingsint.com/conferences/clinicaltrials	International Conference on Earth Science & Climate Change September 06-07, 2018 Zurich, Switzerland W: www.meetingsint.com/conferences/earthscience	International Conference on Metabolomics & Systems Biology October 25-26, 2018 Chicago, USA W: www.meetingsint.com/conferences/metabolomics
International Conference on World Drug Delivery Summit September 24-25, 2018 Toronto, Canada W: www.meetingsint.com/conferences/drugdelivery	Annual Epigenetics Congress September 17-18, 2018 Chicago, USA W: www.meetingsint.com/conferences/epigenetics	International Chemistry Congress October 25-26, 2019 Amsterdam, Netherlands W: www.meetingsint.com/conferences/chemistry
Global Medicinal Chemistry & GPCR Summit October 01-03, 2018 Las Vegas, USA W: www.meetingsint.com/conferences/medicinalchemistry	International Conference on Chemistry & Applied Research October 29-30, 2018 Prague, Czech Republic W: www.meetingsint.com/conferences/chemistryresearch	International Conference on Nuclear Energy November 03-04, 2018 Dubai, UAE W: www.meetingsint.com/conferences/nuclear-energy
International Conference on Pharmaceutics & Novel Drug Delivery Systems December 03-05, 2018 Sydney, Australia W: www.meetingsint.com/conferences/pharmaceutics	World Colloids Conference October 22-23, 2018 Vienna, Austria W: www.meetingsint.com/conferences/colloids	Global Summit on Recycling and Waste Management November 19-20, 2018 Las Vegas, USA W: www.meetingsint.com/conferences/wastemanagement
Annual Drug Safety Congress December 03-04, 2018 Dubai, UAE W: www.meetingsint.com/conferences/drugsafety	International Conference on Glycobiology & Human Physiology October 24-25, 2018 London, UK W: www.meetingsint.com/conferences/glycobiology	World Summit on Climate Change & Global Warming November 26-27, 2018 Tokyo, Japan W: www.meetingsint.com/conferences/climatechange
	International Conference on Human Physiology October 24-25, 2018 London, UK W: www.meetingsint.com/conferences/human-physiology	International Conference on Chemical Engineering & Technology December 05-06, 2018 Dubai, UAE W: www.meetingsint.com/conferences/chemicalengineering
	International Conference on Biochemistry October 24-25, 2018 London, UK W: www.meetingsint.com/conferences/biochemistry	



Joint Event on

Nutraceuticals & Diet-Nutrition 2018

May 14-15, 2018 | Singapore City, Singapore

Supporting Journals



Supporting Journals

Journal of Food and Nutritional Disorders

Journal of Clinical Nutrition and Metabolism

Collaboration



Food Industry Asia

About Us

FIA was founded in July 2010 by a group of leading food and beverage companies. From our base in Singapore, we seek to enhance the industry's role as a trusted partner in the development of science-based policy in the region.

FIA provides an important hub for advocacy and debate. We bring together the food industry's most senior business leaders to champion initiatives that promote sustainable growth and support regional policies that deliver harmonised results.

For more details: <http://foodindustry.asia/home>

Exhibitor

Do well Laboratories



About Us

Founded in 2006, Do Well Laboratories, Inc. is lead by Dr. Simon Hsia who has over 30 years of lab experience including as a formulator and R&D. With state of the art lab equipment and elite lab technicians, we proudly provide Supplement Contract Manufacturing, Custom Formulation and Private Label Service.

Do Well has been providing labeling brands for doctors internationally. For instance, Ethan, has developed EthanImmu from Do Well, and received the first nutrition supplement approval certificate for cancer patients. Do Well's sister company New Health Enterprise, Inc. has also been on the market over the world since 2002, and also involved in many academic researches and published many thesis.

Do Well's own product NutraWell, has been partnered with medical associations for research studies, and published many thesis articles.

<http://www.dowell-lab.com>

Nutraceuticals and Diet-Nutrition 2018

Book Mark Dates

2nd International Conference on **NUTRACEUTICALS**

March 11-12, 2019 | Osaka, Japan





Joint Event on

Nutraceuticals & Diet-Nutrition 2018

May 14-15, 2018 | Singapore City, Singapore

Keynote Forum Day 1

Joint Event on

NUTRACEUTICALS & DIET- NUTRITION 2018

May 14-15, 2018 | Singapore City, Singapore



Jat Rana

Innophos Holdings Inc., USA

New approaches for the development of functional botanical ingredients for innovative products

Botanical products are generally intended for improving or to care for human health has evolved independently in different countries worldwide as drugs, food supplements, or substances for therapeutic use derived from raw material of whole plants or parts of them. With accumulated experience and knowledge, the relationship between efficacy of ingredient and certain diseases or symptoms was gradually established. In this presentation we will present

the holistic benefits of *Vaccinium macrocarpon* (Cranberry extract) with host of antioxidant nutrients that help fight infections and boost your overall health. Cranberries are already popular as a juice and fruit cocktails. The majority of human studies have focused on Cranbury's efforts on Urinary Tract Infection (UTI). However, the recent focus has been on several studies on Cranberry which explored the role of its Polyphenols and Proanthocyanidins, oligomeric flavonoids. These phytochemicals are responsible for anti-oxidant, anti-inflammation, cardio vascular, oral health and other biological activity of Cranberry.

Biography

Jat Rana, who grew up in a small village in the foothills of the Himalayas in India, has a double Major in Chemistry and Botany. He has Masters of Science in Applied Organic Chemistry and PhD in Organic Chemistry from Birmingham University, England (UK). He was a Post-doctoral fellow at the University of Glasgow Scotland (1981) and USDA Research fellow at University of Minnesota, Minneapolis (1985). Production Manager at the Sigma-Aldrich Corporation in St. Louis, MO (1985-1996). Principle Senior Research Scientist at Amway (1996-2017). In 2017 Dr. Rana joined the Innophos Nutrition group as a Director, Technical Services and Application Development, where he continues to provide his expertise in innovative botanical ingredients. He is an Active member of Society of Cosmetic Chemists (SCC), International Association of Analytical Communities (AOAC), Member of American Chemical Society (ACS), and Asian Congress of Nutrition (ACN). He has chaired and presented at many Scientific Sessions at the National and International events.

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Joint Event on

Nutraceuticals & Diet-Nutrition 2018

May 14-15, 2018 | Singapore City, Singapore

Special Session Day 1

Joint Event on

NUTRACEUTICALS & DIET- NUTRITION 2018

May 14-15, 2018 | Singapore City, Singapore



Simon Hsia Houn

DoWell Laboratories Inc., USA

The role of nutrition in cancer treatment and prevention- from bench to clinic

In recent years, nutraceutical received considerable interest due to safe, nutritional benefits, promising side effect reduce and high therapeutic properties in many diseases. Good nutrition support during cancer treatment can make quality of life better, keep up patient's strength and energy, better weight management (cachexia). Lower risk of infection, heal and recover faster.

More and more data show integrated, chemotherapy, radiation therapy, hyperthermia, immunotherapy (monoclonal antibodies, immune checkpoint inhibitors, cancer vaccines, and non-specific immunotherapies) and nutraceutical will possible form a new era for cancer treatment. From cell to human studies, nutraceutical also give promising data for cancer prevention and after treatment benefits for patients.

Biography

Simon Hsia Houn is currently the CEO of NH Nutraceutical Inc., the president of DoWell Laboratories Inc., and the honorary Chairman of Taiwan Nutraceutical Association. He had over 30 years of major corporate experience in product research and development with expertise in dietary supplements, nutraceutical products, generic medicine, OTC drugs, skin care, and etc. He is the project leader for numerous clinicals studies and he has published more than 20 papers in reputed journals.

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Joint Event on

Nutraceuticals & Diet-Nutrition 2018

May 14-15, 2018 | Singapore City, Singapore

Workshop Day 1

Joint Event on

NUTRACEUTICALS & DIET- NUTRITION 2018

May 14-15, 2018 | Singapore City, Singapore

Food Industry Asia

Singapore

Innovative Ingredients for a Better Health?

Food Industry Asia (FIA) is a non-profit organisation that was formed in 2010 to enable major food manufacturers to speak with one voice on complex issues such as food security, food safety and the harmonisation of standards. The organisation covers the whole of Asia, acting as a policy hub for national industry associations and affiliated groups to engage with public bodies and other stakeholders at a

regional level.

Our Vision: To be a trusted partner for businesses and governments – building a vibrant food & beverage industry for a healthy and prosperous Asia.

Our Mission: To represent the food & beverage industry in Asia – promoting a climate for sustainable growth and serving as a regional knowledge hub for science-based advocacy.

Biography

Sabeera Ali is currently working as a Nutrition Officer at Food Industry Asia, Singapore. She has extended her valuable services and has been a recipient of many awards and grants. She has made her valuable contributions and discoveries in major area of research. Her area of expertise credits her with many publications in national and international journals.

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Joint Event on

Nutraceuticals & Diet-Nutrition 2018

May 14-15, 2018 | Singapore City, Singapore

Scientific Tracks & Abstracts Day 1

Dietary Supplements | Functional Foods | Nutraceuticals in Weight Management | Nutraceuticals and Natural | Delivery and Dosage Technologies | Pediatric Nutrition

Chair

Chandan Prasad

Texas Woman's University, USA

Co-chair

Jat Rana

Innophos Holdings Inc., USA

Session Introduction

Title: Preparation of fast-dissolving quercetin nanoformulations

Jun Hu, A*STAR, Singapore

Title: Obese children crave food and they will do anything to have it

Jessica J Lee, Griffith University, Singapore

Title: Effects of anti-oxidants on oxidative stress

Sundardas Dharmadas Annamalai, Natural Therapies Research Centre, Singapore

Title: Neuroprotective effects of Gum Arabic in the ageing brain of type 2 diabetic rats: Interim analysis

Rajab E, RCSI, Bahrain

Title: Nutritional transition, a risk factor for cancer

Madhu Sharma, PGIMER, India

Title: New therapeutic approach, New delivery mechanism

Mohammad Sharif Sharifi, Australian Food and Pharmaceutical Industries, Australia

Title: Nutraceuticals as Pharmaceuticals - A new therapeutic approach: Delivery and dosage technologies

Shefali Thanawala, Inventia Healthcare Pvt. Ltd., India

Joint Event on

NUTRACEUTICALS & DIET- NUTRITION 2018

May 14-15, 2018 | Singapore City, Singapore

Preparation of fast-dissolving quercetin nano-formulations

Jun Hu, Wai Kiong NG and Yuancai Dong

Agency for Science, Technology and Research (A*STAR), Singapore

Quercetin is a plant-derived polyphenol for both nutraceutical and pharmaceutical applications. It is well known for its antioxidant, anti-cancer, anti-obesity, anti-inflammatory and anti-microbial properties. However, quercetin is predisposed with a poor dissolution rate that resulted in low and inconsistent oral bioavailability. Nanosizing, i.e. reduction of the compound particles size to the submicron range, is an effective strategy to increase the dissolution and thereby bioavailability. In this work, quercetin nanoformulation was fabricated by two approaches: (1) antisolvent precipitation in the presence of cellulose fiber followed by spray drying; or (2) spraying (Wurster mode) of the quercetin solution onto

microcrystalline cellulose particles (Avicel® PH-200) by a lab-scale fluid bed coater (VFC-LAB Micro FLO-COATER®). For antisolvent precipitation/spray drying technique, sub 100 nm particles together with small rod-like particles and their agglomerates are formed on the surface of cellulose fibers; while fluidized bed coating technique produced quercetin nanofibers with the width of 100-200 nm and length of 1-2 µm on the cellulose particle surface. The obtained quercetin nanoformulation exhibited good flowability and higher dissolution rate as compared with the raw compound. The developed quercetin nanoformulations could be used as supplements or functional ingredients for food development..

Biography

Jun Hu has completed the PhD degree from Department of Chemical & Biomolecular Engineering of National University of Singapore. He is currently a scientist in Institute of Chemical & Engineering Science, Agency for Science, Technology and Research (A*STAR), Singapore. Bhoj R Singh is currently working as a Acting Head of Division of Epidemiology at, ICAR-IVRI, Izatnagar-243122 Uttar Pradesh, India. He has extended his valuable services and has been a recipient of many awards and grants. He has made his valuable contributions and discoveries in major area of research. His area of expertise credits him with many publications in national and international journals. His researches are mainly focused on pharmaceutical and nutrition formulations. He has published more than 25 papers in reputed journals.

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Joint Event on

NUTRACEUTICALS & DIET- NUTRITION 2018

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Obese children crave food and they will do anything to have it

Jessica J Lee, Bernadette Sebar and Patricia Lee
School of Medicine, Griffith University, Australia

Paediatric obesity is a complex public health issue that many health professionals find difficult to address and provide relevant treatment. The current practice which recommends an increase in physical activity and a decrease in energy intake is a simple solution for a complex problem. Unfortunately, this simple approach has had little impact on the rates of paediatric obesity. Current paediatric obesogenic environments perpetuate weight gain in children by encouraging overconsumption of negative food choices that are high in kilojoules and nutrient poor. The aim of the study was to improve our understanding of the obese child and the role they play in their obesity. Our findings revealed that obese children are highly food-focused experiencing hyperphagia that drives their desire for food and perpetuates disordered food behaviours such as self-feeding, stealing food, hiding food, overeating and the use of a wide range of coercive behaviours to acquire

the foods they desire. Parents of obese children stated that their children love food, are always hungry, pester them for food repetitively and describe the child as having a food addiction. Food consumes an obese child's life, they think, talk and crave food constantly day after day and placing food restriction only creates negative behaviours. The parents experience arguments, pestering, tantrums, verbal and physical abuse leading to negative psychosocial outcomes for both the child and parent. There needs to be more recognition of an obese child's dependence on negative food choices which leads to the development of disordered food behaviours negatively affecting their weight gain. Furthermore, parents are not equipped with the skill set to cope with the obese child's behavioural issues and therefore health professionals need to be more understanding of the challenges that parents face when they try to reduce food intake and increase physical activity. ..

Biography

Jessica J Lee obtained the Master's degree in Nutrition and Dietetics from Griffith University Gold Coast in 2007. She was awarded a Certificate of Paediatric Nutrition in 2010 at the Royal Children's Hospital Melbourne to augment her knowledge in the area of paediatrics. Jessica is currently undertaking a Higher Degree Research Program through Griffith University Gold Coast. Jessica has an extensive experience as a paediatric Dietitian specialising in the treatment of overweight and obese children using alternative approaches. Jessica's doctoral research undertaking is in Paediatric Overweight and Obesity which investigates determinates that influence parental food choices. Having a genuine love of children and a passion to make a difference in the everyday life of children drives Jessica's motivation to explore paediatric obesity.

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Notes:

Joint Event on

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Effects of anti-oxidants on oxidative stress

Sundardas Dharmadas Annamalay

Natural Therapies Research Centre, Singapore

This study looked at reducing oxidative stress and free radicals using oral antioxidants. Malondialdehyde (MDA) is widely used as a biomarker for assessing oxidative stress in biomedical fields and in many health problems such as cancer, psychiatry, chronic obstructive pulmonary disease, asthma, or cardiovascular diseases. Lipid peroxidation is a chain phenomenon resulting in the formation of various active compounds that result in cellular damage and another

mechanism involved in oxidative stress. Oxidative stress status was determined using the urinary malondialdehyde test. Preliminary conclusion suggests that oxidative stress in the body can be reduced with appropriate oral antioxidants. However future research has to determine to what extent the digestive system and the stress hormonal systems can impact the oxidative status.

Biography

Sundardas Dharmadas Annamalay is a Naturopathic Physician, Homeopath and Acupuncturist practicing for the last 28 years in Singapore. He has accredited in Australia as a Naturopath and in Singapore as an Acupuncturist. His clinical interests include children's learning disabilities (ADD/ADHD, Autism, Infections), Allergies, Women's Health Musculoskeletal Pain and Healthy Aging. He is currently Professor of Naturopathic Medicine to the Youngson Institute of Natural Science. He is also a visiting professor to the Open International University for Complementary Medicine (Sri Lanka) and certified by the American Board of Anti-Aging Health Professionals in Anti-ageing Medicine. He is the CEO of Sundardas Naturopathic Clinic and has published 8 books.

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Notes:

Joint Event on

NUTRACEUTICALS & DIET- NUTRITION 2018

May 14-15, 2018 | Singapore City, Singapore

Neuroprotective effects of Gum Arabic in the ageing brain of type 2 diabetic rats: Interim analysis

Rajab E¹, Al Madhoob F¹, AlHamer B¹, Ghazzal S¹, Dawaishan A¹, Rasool S², Al Tayeb A², Mohammed S², Falamarzi F², Keogh M³, Cavanagh B², Elmusharraf K⁴ and Al-Ansari A²

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Dietary supplementation with Gum Arabic (GA) improves oral glucose tolerance and fasting blood glucose in rodent models of high-glucose feeding. Our aim was to determine whether GA supplementation prevents deterioration of learning and memory in type 2 diabetes. Seven weeks old male Zucker diabetic rats (n=8) and their lean litter mates (i.e. controls) (n=8) were assigned to the following groups for 16 weeks: (i) control and water (CW); (ii) control and GA 10% w/v (CGA); (iii) diabetes + water (DMW); (iv) diabetes + GA 10% w/v (DMGA). Fasting blood glucose (FBG) was measured at baseline and 16 weeks, followed by assessment of spatial learning and memory in the Morris

water maze. This study was ethically approved and funded by AGU and RCSI. By week 16, there was a small difference in FBG between the diabetic groups (baseline: 94±5 mg/dL; 16 weeks: DMW 339±26 vs. DMGA 298±36 mg/dL). On day 1 of the water maze, latency in diabetic animals (DMW 33±11 sec, DMGA 35± 6 sec) was higher than controls (CW 12±2 sec, CGA 14±5 sec). DMGA animals showed greater improvements in escape latency than DMW over 5 day of testing; latency in DMGA appeared similar to controls on days 2-5. Chronic GA treatment appears protective against cognitive deficits in type 2 diabetic rats.

Biography

Rajab E is currently working at RCSI, Bahrain. He has extended his valuable services and has been a recipient of many awards and grants. He has made his valuable contributions and discoveries in major area of research. His area of expertise credits him with many publications in national and international journals.

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Joint Event on

NUTRACEUTICALS & DIET- NUTRITION 2018

May 14-15, 2018 | Singapore City, Singapore

Nutritional transition, a risk factor for cancer

Madhu Sharma

PGIMER, Chandigarh, India

Looking at the dietary evolution through the past few decades, it is apparent that there has been a paradigm shift in the food consumption pattern of mankind globally. Both urban and rural population is equally affected. There has been a notable shift, that is, increased incidence of nutritional related chronic disease like diabetes mellitus, Type 2 juvenile diabetes, cardio vascular diseases and cancer. Nutrition transition consequent to industrialization, economic development and dietary modifications both qualitatively and quantitatively, has impacted the lifestyle and health of any population. The concept of nutrigenomics in cancer prevention has recently evolved with profound implications in the prevention and therapy of the disease by just altering the dietary behavior of a population. Diet can modify certain common nutritional response elements

in gene mutation which can cause or prevent cancer, known as epigenetic modulation influenced by what one eats. Risk factors for DNA damage are influenced by malnutrition, lack of plant based foods, high meat consumption, low folate diets and high sugar diets. There are many hypothesis listed for risk of cancer. Besides endogenous factors, exogenous factors like oxidative stress due to dietary influence, inflammation, known immune surveillance, smoking, infection, radiation, industrial pollution, chemicals from agriculture sources and medicines also have a role in causing cancer. However, such adverse affects can be mitigated by right nutritional modulation like eating a healthy diet, with emphasis on natural, plant based foods high in vitamins , anti oxidants, and fiber and minimal processed or refined foods, meat, high fat and sugar foods and alcohol.

Biography

Madhu Sharma is currently working as a Senior Dietician at PGIMER, India. She has extended her valuable services and has been a recipient of many awards and grants. She has made her valuable contributions and discoveries in major area of research. Her area of expertise credits her with many publications in national and international journals.

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Joint Event on

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New therapeutic approach, new delivery mechanism

Mohammad Sharif Sharifi, Renata Andrzejewska, Neda Blackwood
Australian Food and Pharmaceutical Industries, Australia

Delivering medication efficiently and effectively has always been a challenge. Supplementary medication and nutraceutical, in particular, are large and unpleasant to ingest. AFPI intends to revolutionise the therapeutic approach and delivery mechanism by offering an alternative and exciting product; Mast Chew Plus. Existing products such as X, Y, Z and (butadiene-based synthetic rubber) vita-chewing gum fall short of achieving a truly innovative, alternative product that provides for a wide range needs. Our product is distinctively unique as it is made from a natural gum base with naturally occurring antimicrobial activity. It is also an environmentally friendly product that is biodegradable. We are currently developing nutraceutical /vitamin enriched

chewing gum, as well as BCAA sport supplement bars, and libido enhancers. AFPI aims to expand into a broader spectrum of drugs such as calcium supplements, statin and even prescribed routine medication. Therefore mentioned gum base is obtained from trunk exudates of various trees including genus *Pistachia*. These trunk exudates are mainly composed of triterpenes and triterpenoids with well-known antimicrobial, anti-inflammatory and antiviral activities which have historically been used as a form of traditional and complementary medicine for the treatment of stomach ulcers, abdominal pain, heartburn, as well as gastric and intestinal ulcers.

Biography

Mohammad Sharif Sharifi is currently working at, Australian Food and Pharmaceutical Industries, Australia. He has extended his valuable services and has been a recipient of many awards and grants. He has made his valuable contributions and discoveries in major area of research. His area of expertise credits him with many publications in national and international journals.

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Joint Event on

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May 14-15, 2018 | Singapore City, Singapore

Nutraceuticals as Pharmaceuticals - A new therapeutic approach: Delivery and dosage technologies

Shefali Thanawala
Inventia Healthcare Pvt. Ltd., India

Pharmaceutical science is driven by constant innovations in discovery and development of new drugs, as well as in design, development, clinical evaluation, and manufacturing of new dosage forms and administration routes. Also, pharmaceutical industry follows a strict compliance with stringent regulations and quality systems in manufacturing and marketing of prescription drugs. Approaching nutraceuticals through this pharmaceutical path, thus means application of robust pharmaceutical science at all the stages of the product life-cycle, such as use of innovative approaches in product design and development, evaluation of the safety and efficacy through clinical research, and application of the stringent manufacturing standards, before the product can see the light of the market and win the confidence of the consumers. Applying the design and development concept of the pharmaceutical drugs, Novel Drug Delivery Systems or NDDS, are the innovative technologies, which have great scope of application to the nutraceutical products. When

applied to the oral preparations, NDDS aim at making the product more palatable, enhancing the convenience of administration, and improving the efficacy through faster and higher absorption and enhanced therapeutic effect. However, application of the complex NDDS to the nutraceutical supplements and ingredients is far more challenging as compared to the pharmaceutical drugs. This is because, unlike the pharmaceutical drugs, determination of the pharmacokinetic parameters such as absorption and bioavailability for herbal or nutraceutical ingredients is a difficult task, due to difficulties in the isolation and determination of multiple herbal actives present in a single herb, or isolation and estimation of the natural ingredient consumed through the supplement from that which is present naturally in the body or enters the body via food. Despite these difficulties and limitations, the successful application of NDDS technologies to the nutraceuticals has resulted in development of few niche products, which are proving beneficial to the patients and consumers.

Biography

Shefali Thanawala has her basic expertise in Ayurveda, and has vast experience in the pharmaceutical industry, with which she is associated since last 18 years. Currently she is associated with Inventia Healthcare Pvt Ltd., India in the capacity of DGM- Medical Affairs. She has rich proficiency in translating the wisdom of Ayurveda and natural products in today's context, and she is responsible for design and conceptualization of nutraceutical and natural products by identification of the therapeutic actives in these herbs, as well as evaluation of the developed products through clinical research activities. She has been invited as speaker in several conferences to share her views on the successful connect between the pharmaceutical industry with Ayurveda and nutraceuticals. She has authored several articles on these topics which are regularly published in pharmaceutical industry magazines.

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Notes:

Book Mark Dates

2nd International Conference on **NUTRACEUTICALS**

March 11-12, 2019 | Osaka, Japan





Joint Event on

Nutraceuticals & Diet-Nutrition 2018

May 14-15, 2018 | Singapore City, Singapore

Keynote Forum Day 2

Joint Event on

NUTRACEUTICALS & DIET- NUTRITION 2018

May 14-15, 2018 | Singapore City, Singapore



S Narasimhan

Asthagiri Herbal Research Foundation, India

Symbiotic soups

Herbal teas are actually mixtures of several ingredients, and are more accurately known as 'tisanes.' Tisanes are made from combinations of dried leaves, seeds, grasses, nuts, barks, fruits, flowers, or other botanical elements that give them their taste and provide the benefits of herbal teas. The herbal teas may consist of one main herbal ingredient or a blend of herbal ingredients, intended to bring about a specific purpose, such as relaxation, rejuvenation, relief from a specific condition, amongst other things. Unlike most other forms of tea, herbal

teas do not contain caffeine, taste good and refreshing. Herbal Teas are commonly consumed for its therapeutic and energizing properties since it can help to induce relaxation. Being able to aid with stomach or digestive problems, herbal teas can help provide cleansing properties to the body thereby helps to strengthen the immune system. In the present study the herbal blend has been developed keeping in view of the Ayurveda concept of Anupana- a product which acts as bioenhancer. This facilitates combination of anupana with other therapeutically active herbs to be developed as nutraceutical soups. The details will be presented.

Biography

S Narasimhan is currently working as a Chairman and Managing Director at, Asthagiri Herbal Research Foundation, India. He has extended his valuable services and has been a recipient of many awards and grants. He has made his valuable contributions and discoveries in major area of research. His area of expertise credits him with many publications in national and international journals.

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Joint Event on

NUTRACEUTICALS & DIET- NUTRITION 2018

May 14-15, 2018 | Singapore City, Singapore



Chandan Prasad

Texas Woman's University, USA

Agri-byproducts, an unexplored resource for future Prebiotics

Agri-byproducts result from agricultural activities such as cultivation of rice, wheat, barley, corn, sugarcane, banana and other crops as well as food processing and manufacturing. These byproducts are rich source of arabinogalactans, cellulose, hemicellulose and lignin and a variety of other compounds. While some of these byproducts have used for production of fibers, ethanol and chemicals such as furfural, the most go as animal feed, compost or waste. Significant progress in analytical/processing

chemistry and biotechnology methods in the last decades has opened the possibility of developing new uses of agri-byproducts commonly referred to as agri-wastes. The cellulosic by-products are well suited to be converted into high-value prebiotics and nutraceuticals (beta-Glucans, Resistant Starch, Glucomannan, Chitosans, Arabinoxylans) capable of enhancing probiotic growth, reducing inflammation, enhancing immune response and arresting cell growth of cancer cells. This presentation will summarize existing data and suggest future directions on identification, characterization, derivatization, biologic testing and function of agricultural byproducts as possible prebiotics and nutraceuticals for human use. .

Biography

Chandan Prasad graduated from Louisiana State University in 1970 with a PhD in microbiology/biochemistry. After 8 years at the NIH in Bethesda, Maryland, he joined the faculty of LSU Health Sciences Center (LSUHSC) in New Orleans. He served LSUHSC as professor (medicine and neuroscience), Director of Obesity Research Program, and vice chairman (research) until 2006. He was also the first chair of the laboratory of Nutrition and Brain at the Pennington Biomedical Research Center. He joined Texas Woman's University (TWU) as Chair of the Department of Nutrition and served in this capacity until 2012. He served TWU as Interim Assistant Provost for Research Promotion from 2012 to 2014. Currently, he is the Professor at TWU and Professor (Emeritus) of Medicine at the LSUHSC. The current focus of Dr. Prasad's research is on inflammation and its role in non-communicable diseases. He has authored more than 200 papers on the subject and holds four U.S. and international patents for treatment of obesity and alcoholism. He is Founding Editor of *Nutritional Neuroscience*, series editor for *Nutrition, Brain, and Behavior*, Editor-in-Chief of *Current Topics in Nutraceutical Research* and Member of the Board of the International Society of Nutrigenetics/Nutrigenomics.

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Notes:

Book Mark Dates

2nd International Conference on **NUTRACEUTICALS**

March 11-12, 2019 | Osaka, Japan





Joint Event on

Nutraceuticals & Diet-Nutrition 2018

May 14-15, 2018 | Singapore City, Singapore

Scientific Tracks & Abstracts Day 2

Probiotics and Prebiotics Nutritional Disorders | Delivery and Dosage Technologies | Recent Trend in Nutraceuticals Research

Chair

S Narasimhan

Asthagiri Herbal Research Foundation, India

Co-chair

Jat Rana

Innophos Holdings Inc., USA

Session Introduction

Title: Title: Prevention of Type 2 diabetes by nutraceuticals: Adaptation to pathophysiology
Nicolas Wiernsperger, Association Remedes and Lyon University, France

Title: Tittle: Effect of 8 weeks of n-3 fatty-acids supplementation on oxidative stress and inflammation in athletes of middle and long distance running
Buonocore D, University of Pavia, Italy

Title: Title: Extraction and evaluation of nutraceutical molecules in wastes of fruits and vegetables
Doria E, University of Pavia, Italy

Title: Title: Smart food policies for promoting healthy lifestyle among children and adolescents
Sima Hamadeh, Haigazian University, Lebanon

Title: Title: Binge eating disorder and compulsive/emotional overeating in men and women: An overview of predisposing, precipitating and perpetuating factors and gender differences in clinical conceptualization and psychotherapy
Genziana Lay, Private practice, Italy

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Prevention of type 2 diabetes by nutraceuticals: Adaptation to pathophysiology

Nicolas Wiernsperger^{1&2}¹Association Remedés, Orléans, France²Lyon University, France

Type 2 diabetes is the final expression of a long-lasting chronic underlying pathology which is globally known as the (cardio) metabolic syndrome. This pandemic affects one third of worldwide population and a large number of these subjects will develop obesity and eventually diabetes. While it is questionable whether nutraceuticals would treat established type 2 diabetes and its complications, the picture looks much better for preventing this disease. The metabolic dysregulation has a starting point and a

subsequent cascade of events which are increasingly well defined. Based on these recent new notions, nutraceutical composition can be variously adapted to the cellular mechanistic defects and eventually changed according to the state of disease evolution. The author will give a thorough review of the pathophysiology of the metabolic syndrome (or prediabetes) and make suggestions about preferential phytochemical selection based on their demonstrated properties.

Biography

Nicolas Wiernsperger is currently working as a Professor at, Association Remedés and Lyon University. He has extended his valuable services and has been a recipient of many awards and grants. He has made his valuable contributions and discoveries in major area of research. His area of expertise credits him with many publications in national and international journals.

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Joint Event on

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May 14-15, 2018 | Singapore City, Singapore

Effect of 8 weeks of n-3 fatty-acids supplementation on oxidative stress and inflammation in Athletes of middle and long distance running

Buonocore D, Verri M, Arnica S, Doria E and Dossena M
University of Pavia, Italy

Background: Long-chain n-3-polyunsaturated fatty acids (PUFAs), eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA), may alter oxidative status and immune function after exercise. The aim of the study was to determine the effects of n-3 supplementation on Athlete of middle and long-distance running on oxidative/antioxidative status and immune function.

Methods: Twenty nine subjects, males and females, age 17-30 year old divided in two groups: 1) (n=21) Trained Athletes (middle distance runners: 800m, 1500m, 3000m steeplechase; long distance runners: 5000m, 10000m, marathon); 2) (n= 8) Sedentary subjects. All subjects were randomly assigned to 4 g/day of n-3 supplementation, rich in EPA and DHA, for 8 weeks. Blood, saliva and urine samples

were collected pre- (T0) and post- (T1) supplementation. The hematological parameters (trygliceride, total cholesterol, HDL, CPK, LDH, HGH, IGF-1), oxidative parameters (MDA, 8-OHdG, PCO), antioxidant parameters (GPx, SOD, CAT, DPPH scavenger), overreaching index (testosterone and cortisol) and inflammation marker (TNF- α) were measured.

Results: The results evidenced that MDA, cortisol and TNF- α levels significantly decreased after treatment in both Athletes and sedentary subjects but the variation was greater in Athletes than in sedentary control subjects.

Conclusion: 4 g / day of n-3 PUFAs rich in EPA and DHA for 8 weeks was effective to prevent and counteract the onset of oxidative stress and inflammation induced by acute and strenuous physical training.

Biography

Buonocore D obtained the Master degree of Science in Molecular Biology and Genetics and PhD degree in Biomedicine Sciences from University of Pavia, Italy. She does research in Biochemistry, Pharmacology and Phytochemistry. Her work project was based on "Effect of 8-week n-3 fatty-acids supplementation on oxidative stress and inflammation in middle and long distance running Athletes". She has 30 scientific publications in peer-reviewed international journals.

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Notes:

Joint Event on

NUTRACEUTICALS & DIET- NUTRITION 2018

May 14-15, 2018 | Singapore City, Singapore

Extraction and evaluation of nutraceutical molecules in wastes of fruits and vegetables

Doria E, Buonocore D, Boncompagni E, Verri M, Arnica S, Dossena M and Nielsen E
Department of Biology and Biotechnology "L. Spallanzani", University of Pavia, Italy

Fruit and vegetable wastes not only have no commercial value, but also require expensive operations of removal and disposal, representing a significant cost for the manufacturers of plant products. However, this material may represent an important resource of commercially worth phyto-molecules endowed with various nutraceutical properties. In the present work, the possibility of using fruit and vegetable waste materials as a source of bioactive compounds was explored and verified. Several nutraceutical compounds, like sulphoraphane, ursolic acid, phloridzin and other flavonoids of high economic interest,

were extracted and quantified from various waste plant materials deriving from the production phase ("first-gamma products") or discarded during the preparation of fresh ready-to-cook or ready-to-eat packaged products ("fourth-gamma products"). Obtained results showed that, despite the precarious and uncontrolled conditions which plant wastes products are subjected, the levels of the examined bioactive compounds are present in relevant amount, also in the parts of the plant that are discarded during the preparation of the ready-to-eat/cook products.

Biography

Doria E obtained Master degree of Biological Science and PhD degree in Genetics and Biomolecular Science at the University of Pavia (Italy). He is plant biologist, expert in plant biochemistry and physiology, nutritional improvement of crops, nutrition, extraction and analysis of phytochemicals and bioactive compounds from plants and microalgae. He has been Grantholder of EGovTN-Erasmus Mundus project fellowship at the Institut des Regions Arides in Tunisia e post-doc researcher at the Vaal University of Technology in South Africa where he has dealt with aromatic plants and nutritional improvement for local populations. Currently he is working at the Pavia University on several projects, from recovery of nutraceutical compounds from vegetables and fruits waste, to the nutritional improvement of the orphan cereals, to microalgae for nutrients extraction. He is author of more than 20 scientific papers in peer-reviewed international journals.

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Notes:

Joint Event on

NUTRACEUTICALS & DIET- NUTRITION 2018

May 14-15, 2018 | Singapore City, Singapore

Smart food policies for promoting healthy lifestyle among children and adolescents

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Statement of the Problem: Food policies have an essential role in preventing global obesity epidemic and health problems. The interaction between individuals' factors and the environments and systems in which people live provides a novel perspective to understand how various food policies work in different settings. The purpose of this study is to qualitatively explore how combined food-policy actions work and how such policies can be designed to be more effective with substantial and sustained effect specifically on youth lifestyle.

Methodology & Theoretical Orientation: Our approach draws on evidence from a range of disciplines (socio-psychology, communication, social marketing, nutrition economics and public health nutrition) to develop an innovative holistic conceptual framework to understand how food policies work in different areas such as school settings, food industry, and marketing. Directed and semi-structured individual interviews and focus groups were conducted with 115 participants (67 adults and 48 youth) in

Lebanon. Collected data have been submitted to a thematic qualitative analysis.

Findings: Effective food-policy actions should be: 1) tailored to the preference, behavioral, socioeconomic, and demographic characteristics of the people they seek to support, 2) designed to work through the mechanisms through which they have the greatest effect and, 3) implemented as part of a combination of complementary and mutually reinforcing actions. Mobilization and organization of public and key stakeholders support for bold executive actions are crucial.

Conclusion & Significance: Smart food-policies should be comprehensive to create positive changes to food, information, social environments and food systems that enable youth to learn healthy behaviors. Policies assessments should be carefully designed using indicators of progress along the various pathways towards the short and long-term goals of promoting and improving healthy lifestyles among youth.

Biography

Sima Hamadeh is an Assistant Professor and program Coordinator of Nutrition & Dietetics Sciences at Haigazian University-Lebanon. Her interests lie in such areas as the dietary motivations and behaviors in communities; the evolution of nutrition; the epidemiology of obesity especially among youth; the health promotion and communication; and the nutrition policies. Her Master and Doctoral studies were awarded respectively, the "Emerald Literati Network Awards for Excellence 2009" - as Highly Commended Award Winner and the "Prix d'Excellence Scientifique Franco-Libanais 2015" for the outstanding research project. She has several publications in scientific refereed journals and book. She has also presented many oral communications on public health nutrition in international and national congresses. She works closely with different national ministries and organizations, and international institutions in projects, seminars, researches and community programs. Dr. Hamadeh is also former member of several executive international Scientific Committees and Associations.

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Binge eating disorder and compulsive/emotional overeating in men and women: An overview of predisposing, precipitating and perpetuating factors and gender differences in clinical conceptualization and psychotherapy.

Genziana Lay

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Binge-eating disorder (BED) and compulsive/emotional overeating (CEO) both involve an unhealthy relationship with food that has little to do with hunger- they are conditions wherein a person feels unable to control episodes of excessive, disorderly food intake, resulting in a sense of shame, powerlessness, discomfort and serious health risks. They are characterized by a constellation of symptoms related to emotional regulation, self-image, addiction and maladaptive behavior. BED is often associated with addiction-related patterns, depression, emotional dysregulation and self-esteem issues. Eating disorders (EDs) have traditionally been associated with a high-risk young, Western female population. This perception, however, is increasingly challenged as globalization and industrialization foster a higher incidence of EDs in non-Western nations (particularly Asian) and as epidemiological research highlights that the disorders are more prevalent in males than previously believed. This paper provides an overview of predisposing, precipitating and perpetuating factors of BED and CEO in both men and women, with particular attention to gender differences in clinical conceptualization of cases and therapeutic

approaches. While there is clearly common ground, women frequently appear to be negatively influenced by family dynamics related to food and relationships as well as by media-driven pressure, while men are deeply affected by social expectations regarding masculinity, performance and emotional control. Men are more reluctant to seek treatment and suffer more social stigma with diagnosis. This study also discusses risk factors and warning signs that may be helpful for non-clinicians (such as nutritionists or coaches) to identify potential problems and refer clients for psychotherapy. The paper furthermore outlines an effective treating approach for the disorder which includes: individual assessment, cognitive restructuring (focusing particularly on beliefs on body image, self-esteem food and emotions), teaching *attuned eating*, work on self-image, self-esteem and body image (particularly utilizing creative/art therapy approaches), and tailored nutritional/exercise counseling. The conceptualization and treatment are further exemplified through two recent case study reports (one male, one female) illustrating key issues and typical course of therapy.

Biography

Genziana Lay, M.ed, PsyD, CPsychol is a clinical psychologist and psychotherapist licensed in the United States, Italy and United Kingdom. She is currently in private practice, focusing on psychotherapy with individuals and couples with a range of presenting problems. Her expertise includes issues related to trauma/violence, eating disorders, integrated and creative therapies, and post-traumatic stress. She also serves as honorary judge and expert in Juvenile Court in Sassari, Italy. In the past, she has worked in the United States in a university setting, in a public mental health facility, and as a member of numerous task forces. She has developed several therapy techniques and approaches she uses in her practice and has shared her expertise at multiple international conferences in recent years.

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Poster Presentations

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Anethum graveolens mitigates vascular dementia: Role of oxidative stress and eNOS

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Statement of the Problem: To date, the prevention against vascular dementia (VaD) by neuroprotective agents is required. Based on the crucial roles of oxidative stress on VaD and the neuroprotective against VaD of antioxidants, the protective effect against VaD of *Anethum graveolens*, an indigenous plant possessing antioxidant activity, was considered. This study was undertaken to determine the effect of *A.graveolens* extract on spatial memory, brain damage and oxidative stress status in brain areas which play a crucial role on learning and memory.

Methodology & Theoretical Orientation: Male Wistar rats, weighing 300-350g, were orally given *A.graveolens* at doses of 50,150 and 450 mg/kg⁻¹ BW 14 days before and 14 days after the occlusion of right middle cerebral artery (Rt.MCAO). Then, spatial memory, brain infarcted volume, oxidative stress status and eNOS expression were determined.

Findings: Low and medium doses of *A.graveolens* mitigated memory impairment in animal model of VaD following cerebral ischemia. However, all doses of extract could improve brain damage in cerebral ischemic rats whereas the improved oxidative stress status in cortex was observed in medium and high doses treated groups and the improved oxidative stress in hippocampus was observed only in high dose treated group. In addition, the enhanced eNOS expression in cerebral cortex was also observed in cerebral cortex.

Conclusion & Significance: These data suggested that *A.graveolens* is the potential neuroprotectant against VaD. The possible underlying mechanism occurred partly via the improved oxidative stress status and the enhanced eNOS expression in cerebral cortex. However, the precise understanding concerning mechanism of action is required further investigations.

Biography

Supaporn Muchimapura is a Scientist and Vice director of the Integrative Complementary Alternative Medicine Research and Development Center, Khon Kaen University and the Head of the Department of Physiology, Faculty of Medicine, Khon Kaen University, Khon Kaen, Thailand. Her Research interests are Pharmacological Effects and Physiological Effects of Nutraceutical Product, Medicinal Food, Food Supplements and Medicinal Plants. She has more than fifty research paper publications on Integrative Complementary Alternative Medicine.

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The protective effect against diabetic nephropathy of *Nelumbo nucifera* in Streptozotocin rats

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Statement of the Problem: Diabetic nephropathy, one of the most serious diabetic complications and the most common cause of end-stage renal failure, is regarded as one of the challenges in this decade. Based on the activities associated with the pathophysiology of diabetic nephropathy such as hypoglycemic, antioxidant and aldose reductase inhibitor activities of *Nelumbo nucifera* leaves extract, we hypothesized that this extract could prevent diabetic nephropathy. Thus, the purpose of this study is to test this hypothesis.

Methodology & Theoretical Orientation: Male Wistar rats weighing 200-250 g were induced diabetic condition by using Streptozotocin (55 mg/kg BW). Rats which showed blood sugar more than 250 mg/dl were recruited for further study. They were orally administered the extract of young leaves of *N. nucifera* at doses of 1,10 and 100 mg/kg BW once daily for 8 weeks. At the end of study, they

were determined blood sugar, albumin urea, the levels of blood urea nitrogen (BUN) and creatinine together with the activities of lactate dehydrogenase (LDH) in serum. The alterations of renal oxidative stress markers and renal histology were also carried out.

Findings: All doses of extract used in this study decreased albumin urea and serum creatinine in diabetic rats. They also improved renal histology but no improved renal oxidative stress status was observed.

Conclusion & Significance: These data suggested that 50%hydroalcoholic extract of *N.nucifera* leaves is the potential substance that can be served as the resource for developing the health product prototype targeting at reducing the diabetic nephropathy risk. The principal mechanism of action might not occur via the decreased renal oxidative stress and required further studies.

Biography

Panakaporn Wannannon is an Academic and Research Staff and in the committee of the Integrative Complementary Alternative Medicine Research and Development Center, Department of Physiology, Faculty of Medicine, Khon Kaen University, Thailand. She has her expertise in evaluating safety and efficacy of the functional food and herbal health product and also clinical study of the functional health product.

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The protective effect against cataract and retinopathy of ICAM601, the polyphenol-rich supplement, in Streptozotocin rats

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Statement of the Problem: Diabetic cataract and retinopathy, the leading causes of poor vision and blindness, are regarded as one of the major public health problems worldwide. Based on the crucial role of oxidative stress on the pathogenesis of cataract and retinopathy in diabetic condition, the protective effect against aforementioned conditions of the polyphenol- rich supplement was focused. Therefore, the purpose of this study is to determine the anti-cataract and anti-retinopathy potentials of ICAM601, the polyphenol- rich supplement in streptozotocin rats. Methodology & Theoretical

Orientation: Male Wistar rats weighing 200-250 g were induced diabetic condition by using Streptozotocin (55 mg/kg BW). Rats which showed blood sugar more than 250 mg/dl were recruited for further study. They were orally administered the ICAM601 at doses of 2, 10 and 50 mg/kg BW once daily for 8 weeks. The animals were determined lens opacity, histology of lens and retina, lens

oxidative stress status, aldose reductase activity and signal transduction via mitogen activated kinase (MAPK) and extracellular recognition kinase (ERK).

Findings: All doses of ICAM601 improved lens opacity and lens histology whereas the increased number of ganglion was observed only in STZ rats treated with either low or medium dose of ICAM601. No significant changes in lens oxidative stress status and aldose reductase activity were observed but the significant decreased in MAPK was observed in medium and high doses treatment groups. Therefore, MAPK was responsible partly for anti-cataract and anti-retinopathy effects of ICAM601.

Conclusion & Significance: These data suggested that ICAM601 is the potential candidate for decreasing diabetic cataract and diabetic retinopathy. The mechanism occurs partly via MAPK but the précised understanding is still required further studies.

Biography

Wipawee Thukhammee is currently working as Assistant Professor and the Secretary of Integrative Complementary Alternative Medicine Research and Development Center, Khon Kaen University, Khon Kaen, Thailand. Her research interest is to develop the functional food and herbal health product as well as in alternative medicine.

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Microencapsulation of mulberry fruit extract reduced metabolic disorders in animal model of menopause with metabolic syndrome

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Statement of the Problem: Currently, the therapeutic strategy against menopause related disorders including by metabolic syndrome target at risk factor management is required. Based on the benefits of mulberry fruits together with the encapsulation, we hypothesized that the microencapsulated mulberry extract (MME) could improve metabolic parameters in postmenopausal metabolic syndrome. The purpose of this study is to test this hypothesis.

Methodology & Theoretical Orientation: MME at doses of 10, 50 and 250 mg/kg were given to female Wistar rats which were induced experimental menopause with metabolic syndrome by bilateral ovariectomy (OVX) and fed with high carbohydrate high fat (HCHF) diet for 8 weeks. Metabolic parameters, oxidative stress status, histology, and protein

expression of PPAR γ , TNF- α and NF- κ B in adipose tissues were determined.

Findings: MME administration could improve metabolic parameters including body weight gain, adiposity index, glucose intolerance, lipid profiles and decrease atherogenic index, ACE, oxidative stress status and inflammation via decreased protein expression of TNF- α and NF- κ B. Moreover, MME could attenuate adipose tissue hypertrophy and elevate protein expression of PPAR γ .

Conclusion & Significance: MME is the potential candidate as anti-metabolic syndrome food supplement for menopausal women. However, further researchers concerning the precise underlying mechanism and clinical trial are essential.

Biography

Jintanaporn Wattanathorn is the Director of Integrative Complementary Alternative Medicine Research and Development Center, Khon Kaen University, Khon Kaen, Thailand. She is expertise in developing and evaluating safety and efficacy of the functional food and herbal health product and also in the delivery system and nanotechnology. Researches are performed in all levels including in vitro, preclinical and clinical trial study.

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High antioxidant and high fiber cashew based functional drink improves lipid profiles, atherogenic index and cerebral ischemia in obese rats

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Statement of the Problem: Although the cerebral ischemia in obesity is increasing its importance due to the increasing prevalence, the therapeutic efficacy is limited. Based on the antioxidant and neuroprotective effect of cashew extract and antidyslipidemia effect of dietary fiber, the beneficial effect of high antioxidant high fiber of cashew based functional drink was focused. Therefore, the purpose of this study is to determine the effect of this functional drink on lipid profiles, atherogenic index and cerebral ischemia in obese rats.

Methodology & Theoretical Orientation: Male Wistar rats weighing 200-250 g were induced obesity by high fat diet (HFD) for 12 weeks and were orally given the high antioxidant high fiber of cashew based functional drink at doses of 1, 10 and 100 mg/kg BW for 14 days. Then, the determination of triglyceride, cholesterol, LDL, HDL and atherogenic index together with spatial memory were performed. At the end of experiment, they were induced

cerebral ischemia and were also determined ischemic brain volume, oxidative stress status.

Findings: All doses of the functional drink decreased total cholesterol, triglyceride but increased HDL. Only the high dose of functional drink decreased LDL in obese rats. In addition, the improved brain infarcted volume, memory and atherogenic index were also observed in obese rats which received all doses of the functional drink used in this study. Moreover, the improved oxidative stress markers were observed in all treatment groups.

Conclusion & Significance: These data suggest that given the high antioxidant high fiber of cashew based functional drink is the potential supplement for decreasing risk of cerebral ischemia in obesity. The possible underlying mechanism may occur partly via the improved serum lipid profiles and brain oxidative stress status. However further studies are still essential prior to the clinical trial study.

Biography

Pratthana Srichomphu is pursuing her PhD in neuroscience program of Integrative Complementary Alternative Medicine Research and Development Center, Khon Kaen University, Khon Kaen, Thailand. She has received her MSc from Faculty of Medicine, Khon Kaen University, Thailand. Her research focuses on obesity and cerebral ischemia in animal models. She has experience in research of the functional food and herbal health product. The researchers are performed including in vitro and preclinical study. She has petty patent concerning functional food.

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ICAM611, a polyphenol-rich supplement, attenuates brain damage and dysfunction induced by cerebral ischemia in animal model of metabolic syndrome

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Statement of the Problem: Currently, the therapeutic intervention against cerebral ischemia associated with metabolic syndrome (MetS) is required. Based on the crucial roles of oxidative stress and inflammation on the pathophysiology of cerebral ischemia in MetS, the beneficial effect of the supplement possessing antioxidant and anti-inflammatory activities on aforementioned condition has been considered. Therefore, the purpose of this study is to investigate the effect of ICAM611, a polyphenol rich supplement on brain damage and dysfunction induced by cerebral ischemia in animal model of MetS.

Methodology & Theoretical Orientation: Male Wistar rats weighing 200-250 g were induced metabolic syndrome by high carbohydrate high fat (HCHF) diet for 16 weeks. The rats which showed MetS characteristic were induced ischemic-reperfusion injury for 90 minutes and were orally given ICAM611, the supplement containing the combined extract

of *Oryza sativa* (purple color) and *Anethum graveolens* at doses of 0.5, 5 and 50 mg/kg BW once daily for 14 days. The animals were determined spatial memory and neurological score every 7 days. At the end of experiment, they were also determined ischemic brain volume, oxidative stress status, neuron density.

Findings: All doses of ICAM611 significantly improve memory impairment, brain infarcted volume and edema. The improved oxidative stress status and neuron density in prefrontal cortex and hippocampus were also observed.

Conclusion & Significance: The current results suggested the potential neuroprotective effect against cerebral ischemia in metabolic syndrome condition. The possible underlying mechanism occurs partly via the improved oxidative stress. However further investigations are required before moving forwards to clinical trial study.

Biography

Warin Ohn-on is pursuing the PhD degree in neuroscience program of Integrative Complementary Alternative Medicine Research and Development Center, Khon Kaen University, Khon Kaen, Thailand. She has experience in research of the functional food and herbal health product. She has been doing researches on stroke in metabolic syndrome in animal model including in vitro and preclinical study. And also she has petty patent concerning functional food.

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Phenolic compounds and antioxidant activity of ethanolic extracts of Adzuki beans according to cultivar

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We analyzed the phenolic compounds in five cultivars of adzuki beans [cv. Geomguseul (GGS), Arari (ARR), Yeonduchae (YDC), Whinguseul (WGS), and Whinnarae (WNR)] and compared their antioxidant abilities and cytotoxic effects. The total polyphenol contents were highest in GGS (20.53 mg GAE/g of extract), and the flavonoid contents were highest in WGS (7.79 mg CE/g of extract). The predominant phenolic compound in the adzuki beans was (+)-catechin; it accounted for 71.84, 96.08, 78.03, 87.66, and 89.31% of the content in GGS, ARR, YDC, WGS, and WNR, respectively. Gallic acid was also ubiquitously found in the adzuki beans; it comprised 2.54, 2.68, 11.24, 4.40, and 10.69% of the total phenolic acids in GGS, ARR, YDC, WGS, and WNR, respectively. The other phenolic acids differed according to the cultivar. GGS contained the most varied phenolic acids, including caffeic acid and biochanin, which were only found in this cultivar. In ARR and WNR, phenolic compounds were not detected or minor amounts

were detected, except for gallic acid and (+)-catechin. In YDC and WGS, gentisic acid and phloretic acid were the second most substantial compounds, respectively. The predominant phenolic acids in five cultivars of adzuki bean were (+)-catechin and gallic acid. Antioxidant capacities were determined using DPPH and ABTS radical, and reducing power was positively enhanced according to the total polyphenolic content. In a cell-based assay, adzuki beans showed cytoprotective effects against oxidative stress induced by tert-butyl hydroperoxide and inhibitory effects on the production of reactive oxygen species, except for the cultivar WNR. In conclusion, (+)-catechin was the predominant phenolic compound found in adzuki beans, but there were differences according to the cultivar. Overall, the five adzuki bean cultivars showed different antioxidant activities and cytoprotective effects according to the concentration and composition of phenolic compounds.

Biography

Ji Hae Lee has earned his Doctorate degree from Korea University in 2015 and Postdoc from Sungkyunkwan University in 2016. And currently pursuing Postdoc degree in National Institute of Crop Science, Rural Development Administration (RDA), Republic of Korea. His research topic is on Investigation of bioactivities from food and natural compounds.

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Antioxidant components and antioxidant activity of black soybean with cooking method and mixing ratio

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This study was carried out to compare the phenolic compounds and antioxidant activity of un-hulled and hulled black soybean with addition rate (0, 5, 10, 15, and 20%), and cooking method. The black soybean cultivars were Glycine max (L.) Merr. cv. Cheongja 3, and rice cultivar was Samkwang rice. Cooked rice added black soybean was cooked by general and high pressure cooking method with and without fermented alcohol. The quality characteristics according to different addition ratios of un-hulled and hulled black soybean evaluated the water binding capacity, water solubility, swelling power, and pasting characteristics. The antioxidant characteristics evaluated the total polyphenol, flavonoid contents, DPPH and ABTS radical scavenging activities. Water binding capacity and swelling power decreased as increasing the amounts of un-hulled black soybean, however water solubility increased. Swelling

power decreased as increasing the amounts of hulled black soybean, however water binding capacity and water solubility increased. Peak, trough, breakdown, final, and setback viscosity decreased as increasing the amounts of un-hulled and hulled black soybean. The total polyphenol and flavonoid contents were increased as increasing the amounts of black soybean. DPPH and ABTS radical scavenging activities were increased as increasing the amounts of black soybean. Moreover, cooked rice added un-hulled black soybean showed the higher antioxidant effect compare to cooked rice added hulled black soybean. In this study, phenolic compounds and antioxidant activity of cooking black soybean with addition rate and cooking method were expected to be used as basic data on processed products manufactured.

Biography

Hyun-Joo Kim was in the joint program of industrial-educational corporation between Korea Atomic Energy Research Institute and Chungnam National University for Masters of Science and Doctorate degree. She has mainly involved in food technology research using irradiation, cold plasma, and high hydrostatic pressure and published research papers regarding functional improvement of polysaccharides. Recently, she has published various research results in the field of processing materials development using crops such as rice, barley and beans.

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Extraction and evaluation of nutraceutical molecules in wastes of fruits and vegetables

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Fruit and vegetable wastes not only have no commercial value, but also require expensive operations of removal and disposal, representing a significant cost for the manufacturers of plant products. However, this material may represent an important resource of commercially worth phyto-molecules endowed with various nutraceutical properties. In the present work, the possibility of using fruit and vegetable waste materials as a source of bioactive compounds was explored and verified. Several nutraceutical compounds, like sulphoraphane, ursolic acid, phloridzin and other flavonoids of high economic interest,

were extracted and quantified from various waste plant materials deriving from the production phase ("first-gamma products") or discarded during the preparation of fresh ready-to-cook or ready-to-eat packaged products ("fourth-gamma products"). Obtained results showed that, despite the precarious and uncontrolled conditions which plant wastes products are subjected, the levels of the examined bioactive compounds are present in relevant amount, also in the parts of the plant that are discarded during the preparation of the ready-to-eat/cook products.

Biography

Buonocore D graduated in Biological Sciences in academic year 2006/2007 obtaining her Master Degree of Science in Molecular Biology and Genetics, ex-Department of Genetics and Microbiology "A. Buzzati Traverso", University of Pavia. From the 2008s to 2012s, she received a Research Grant at the University of Pavia where in 2010 she obtained the II level University Master in Regulatory Affairs "G. Benzi" and in 2011, she obtained II level University Master in Human Nutrition. In academic year 2014-2015 she obtained her PhD degree in Biomedicine Sciences, University of Pavia. She is working with a Post Doc Grant position within the Department of Biology and Biotechnology "Lazzaro Spallanzani", University of Pavia. She has 30 scientific publications in international journals and 5 contributions in books. She is a referee for indexed/peer reviewed international journals. She has been Assistant Supervisor for over 40 University theses in Biological Sciences, in Physical Activity and Sport Sciences, in Pharmacy and Chemistry and Biotechnology Drug Sciences at the University of Pavia.

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Evaluating therapeutic potential of coriander seeds and leaves (*Coriandrum sativum* L.) to mitigate carbon tetrachloride-induced hepatotoxicity in rabbits

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Objective: To evaluate the hepatic and renal protective potential of coriander seeds and leaves using animal feed model. **Methods:** Coriander seeds- and leaves-based sauces were administrated to normal (Study I) and carbon tetrachloride (2 mL/kg B.W.)-induced hepatotoxic rabbits (Study II). Hepatic and renal biomarkers like aspartate aminotransferase, alanine aminotransferase, alkaline phosphatase, superoxide dismutase and catalase were measured.

Results: Coriander leaves-based sauce exerted more decline ($P < 0.05$) in serum aspartate aminotransferase,

alanine aminotransferase and alkaline phosphatase levels in the study II as 18.32%, 19.91% and 21.24%, respectively. While, hepatic superoxide dismutase and catalase levels were raised significantly ($P < 0.05$) in both studies. Renal parameters also depicted positive impact by the provision of developed sauces.

Conclusions: Coriander seeds and leaves based sauces are effective in alleviating the hepato/renal toxicity. The hepatoprotective effect of coriander leaves is more pronounced as compared to coriander seeds.

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Terminal renal patients diet and nutrition particularities and challenges

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Statement of the Problem: Malnutrition is defined as a pathological state characterized by an energetic, protein or another specific macro or micro specific nutrient deficiency, or by an increase of energetic needs (hyper catabolism). This state aggravates the prognostic of diseases and is reversible with an adequate nutritional treatment. Chronic kidney disease (CKD) is associated with a chronic malnutrition status. The main cause is the intake deficiency. There an evident spontaneous reduction in calories and protein intake from the early stages of CKD et even more in late stages, including hemodialysis (HD).

Theoretical Orientation: The main causes of malnutrition in hemodialysis are anorexigenic factors, the uremic toxicity, inadequacy of the diet, poly medication, associated comorbidities and environmental factors, HD-linked factors, hyper catabolism and increased losses, metabolic acidosis, cardiovascular and infectious complications, inflammation, losses in the dialysate (glucoses, amino acids, vitamins). The prevalence of malnutrition is high in HD, with an estimated frequency varying between 20 and 60%, depending on

the studied population and the malnutrition criteria used. Nutrition surveillance allows identifying malnutrition using the Health Authority criteria from 2015.

If 2 criteria are outside the range: BMI < 23kg/m², albuminemia < 38 g/L (green bromocresol method) or < 35 g/L (nephelometric method) or nPCR < 0.8 g/kg/d or loss of dry weight of > 10% in 6 months. Total cholesterol, Kt/v > 1.2 and elevated CRP contribute to the diagnostic of malnutrition. The decisional tree scheme of nutritional care identifies the degree of malnutrition, moderated or severe or at risk, adapting the strategy of malnutrition treatment. Evaluation of spontaneous intake, dietary advices, enteral or parenteral alimentation must be put in place. This allows a complex cooperation between the nephrologist, dietician, nurses, hospital attendants, social assistant and patient's entourage. In HD, nutritional surveillance targets also hyperkalemia, hyperphosphatemia and interdialytic water gain.

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***In vitro* and *in vivo* anti-inflammatory activity of bovine milk fat globule (MFGM)-derived Complex lipid fractions**

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Background: Many beneficial health properties including anti-inflammatory activity have been reported for the bovine milk fat globule membrane (MFGM) or components thereof. Here we present novel data on the in-vitro and in-vivo anti-inflammatory activity of proprietary MFGM preparations which confirm and extend the concept of MFGM as a dietary anti-inflammatory agent.

Methods: The aim of this study was to present new data on the in-vitro and in-vivo anti-inflammatory activity of proprietary MFGM preparations. Results from an array of cell-based assays, in which MFGM preparations were tested for their ability to modulate levels of the inflammatory mediators IL-1 β , nitric oxide, superoxide anion, cyclo-oxygenase-2, and neutrophil elastase, were collated. Representative estimates of anti-inflammatory activity of MFGM preparations at different dose levels were obtained by combining results from several experiments, firstly converting sample results to %Control and then pooling the results using weighted means. Significance of the pooled results was evaluated using the Student t-test. For the in-vivo trials, rats were fed MFGM preparations for

two weeks prior to induction of either adjuvant-arthritis or carrageenan-induced acute inflammation. Inflammation was monitored using foot score and foot volume measures. Results were statistically evaluated using the method employed for in-vitro data.

Results: In-vitro MFGM and some of its isolated fractions displayed broad spectrum inhibitory activity against the inflammatory mediators, although activity was highest against Interleukin-1 β . Two MFGM phospholipid preparations were effective in reducing adjuvant-induced paw swelling in rats (MFGM 1, foot score $p=0.02$; MFGM 2, foot score $p=0.001$, foot volume $p=0.007$), while there was a tendency for a different MFGM preparation to reduce carrageenan-induced rat paw oedema (foot volume, $p=0.072$).

Conclusions: These results confirm the potential of MFGM as a nutritional intervention in mitigation of chronic and acute inflammatory conditions, especially those involved in joint disease, and as a nutritional supplement for general immune regulation.

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Influence of abiotic stress on accumulation of xanthophylls and lipids in *Haematococcus* and *Scenedesmus* microalgae

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Carotenoids possess a very important antioxidant activity and consequently they have important nutraceutical properties including enhancement of immune responses and protection against various diseases, among which are certain types of cancer. The global carotenoid market value was \$1.5 billion in 2014. This market is expected to reach nearly \$1.8 billion in 2019, with a compound annual growth rate (CAGR) of 3.9%. Moreover, synthetic carotenoids are sold for between \$250 and \$2,000/kg, whereas natural carotenoids are sold for between \$350 and \$7,500/kg. For all these reasons it is resulting very important to explore the possibility to use microalgae to produce relevant amounts of ketocarotenoids in a sustainable way. In this work we investigated in particular the Astaxanthin

accumulation and esterification degree in an Argentinian *Haematococcus pluvialis* strain, grown at moderate and high light stress under autotrophic and mixotrophic conditions. The content of total lipids and neutral lipids was also analysed under the same culture conditions and the correlation between the accumulation of Astaxanthin and that of lipids was established. Finally the Lutein production and its accumulation efficiency in *Scenedesmus obliquus* strain was analysed by comparing the effect of different environmental conditions, obtained causing abiotic stress (oxidative, osmotic, edaphic) in the culture medium, known to be able to induce a greater Lutein accumulation efficiency.

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India: Next emerging Giant in Nutraceuticals

Amit Srivastava
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Nutrition was never a domain of consumers. 5000 BC, Ayurveda system had defined the type of food to be consumed at the specific time of day. It's food chemistry that interacts with the larger biochemistry of humans. The casual approach towards nutrition has spun off 650 million Indians who are calorific sufficient and yet malnourished on one end and then over 90 million Indians who are abusing nutraceuticals in the mad rush to be perfectly healthy! This has resulted in complex health issues to manage. Thanks to the growth of the economy, spending power, awareness of financial load due to medical ailments and the intense network of information flow, India is all poised to be USD 6 billion nutraceutical markets by 2020. The presentation will focus on key trends in American nutrition evolution since 1830, and how is India following similar trends.

The presentation will simulate potential near future of nutraceutical market in India based on the trends and comparisons to what happened in USA. The trends would also showcase evolving channels and recommended channels to look for when venturing into Indian market.

Case 1: A case study of how companies are innovating in developing nutraceutical format aligned to usage pattern of consumers and the heritage touch for better compliance – Particularly in the disease condition.

Case 2: Fueling the Growth: The nutraceutical park complexes of India: An ambitious drive of Government of India. Exciting opportunity for nutraceutical industry worldwide those have focused on India.

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What influences consumers to make the healthy purchase?

Julie Meyer

Eat Well Global, USA

With more than 70% of the US population reporting, they are “actively trying to get healthier,” more consumers are making their own choices on what they consider healthy products. Whether they are looking for a yogurt with less sugar and more probiotics to support their gut health or choosing a day-care center for their child with fresh, healthy food, consumers make scores of daily decisions about where to spend their money around health and wellness. As consumers take their health into their own hands, we know there are multiple influences that impact these decisions. Some consumers get their most useful information from credentialed influencers like dietitians, doctors or their personal trainer, some from neighbors and social groups, and some from the companies themselves, as they make commitments in the health & nutrition space. Using primary research on consumers’ “health + wellness shopper journey,” as well as secondary

research on consumer trends, social media influences and the power of online retail, we will paint a picture of who and what are influencing American consumers to “make the healthy choice” and what organizations can do to best position themselves on the consumer’s path-to-purchase. This session provides credible, important information for the private sector to better understand how they can benefit from all the voices encouraging consumers to make the healthy choice the easy choice – from celebrities to health professionals to social media stars to companies themselves. By having a clearer roadmap about these interactions of influence impacting health + wellness purchase decisions, companies they can garner best practices to attract consumer attention and increase engagement.

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Maternal perspectives on probiotics, intake of probiotic food and occurrence of atopic dermatitis among children in selected urban communities in laguna, Philippines

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Introduction: Atopic dermatitis (AD), also known as eczema, is the most common chronic relapsing skin disease in children, affecting approximately 10% to 30% of children worldwide. For this reason, the research community investigated possible innovative prevention and treatment strategies for AD. One of these strategies was the manipulation of the intestinal flora through probiotics.

Method: This study is a cross-sectional, analytic study on 680 mothers and 680 children recruited in selected urban communities in Laguna, Philippines.

Results: Most mothers (92%, n=625) had highly positive attitude to probiotics. Composite scores were computed and statistical data revealed that attitude is significantly correlated with behavioral control ($r=0.2087$, $p\text{-value}<0.001$) and intention ($r=0.2934$, $p\text{-value}<0.001$). Furthermore, it was found out that both intention ($r=0.3703$, $p\text{-value}<0.001$) and perceived control ($r=0.2355$, $p\text{-value}<0.001$) were significantly correlated to total amount of intake of probiotic food. Female children (42.43%) have higher

intake than males (30.61%). High intake was also noted among children of mothers with educational attainment of Vocational (45.45%) and College and higher (41.09%); among low- (38.92%) and middle-income families (44.06%); and among those without family history of AD (38.55%). As for the frequency of consumption of probiotic food, 3 out of 10 of the respondents reported daily intake of at least one bottle of the probiotic foods enumerated. Among 680 respondents, 18.09% (n=123) were diagnosed as having atopic dermatitis, while 81.91% (n=557) were without AD. This study showed that the odds of having atopic dermatitis was 2.4 times higher among those with low intake status and 4.3 times higher among those with none intake status compared to children with high intake status.

Conclusion: Intake of probiotics are positively correlated with maternal education, income, highly positive attitude, high perceived control, and intention of mothers. Consumption of probiotics is a protective factor against atopic dermatitis.

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A preliminary assessment of food intolerance and dietary behavior in an Australian Chronic Fatigue Syndrome/Myalgic Encephalomyelitis cohort

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Statement of the Problem: Gastrointestinal symptoms and food intolerance are prevalent in Chronic Fatigue Syndrome/Myalgic Encephalomyelitis (CFS/ME) patients, with much higher proportion of these patients reporting a diagnosis of Irritable Bowel Syndrome (IBS) than is found in the general population. Many patients report using dietary modification and the use of various nutritional supplements in an effort to reduce gastrointestinal symptoms, however results supporting the efficacy of supplements in CFS/ME are not consistent, and as yet a comprehensive long term dietary study has not yet been completed in CFS/ME patients. The purpose of this study was to determine whether diet and gastrointestinal symptoms differed between CFS/ME patients and healthy controls, and whether further investigation into this area is warranted.

Methodology & Theoretical Orientation: An online survey including questions on gastrointestinal symptoms, diet modification, nutrient supplementation, and food intolerance was developed and distributed to both CFS/ME patients meeting the CDC diagnostic criteria and healthy controls. Data were analysed using a t-test or Fisher's exact test where appropriate.

Findings: 10 CFS/ME patients and 9 age- and sex-matched healthy controls were eligible for participation. CFS/ME patients experienced gastrointestinal complaints significantly more frequently than healthy controls (d.f.=1, P=0.02). CFS/ME patients demonstrated a higher prevalence of food intolerance, dietary changes, food exclusion, and nutrient supplementation than healthy controls, however these results were not statistically significant.

Conclusion & Significance: CFS/ME patients are more likely to experience gastrointestinal symptoms than healthy subjects. Although food intolerance and self-management of gastrointestinal symptoms were not significantly more prevalent in CFS/ME patients, results were approaching significance for some questions and may have been affected by small sample sizes. Further investigation into gastrointestinal symptoms, food intolerance, and dietary behavior in CFS/ME patients is warranted to determine whether the future development of a CFS/ME-specific dietary regime could help to ease gastrointestinal symptoms in these patients.

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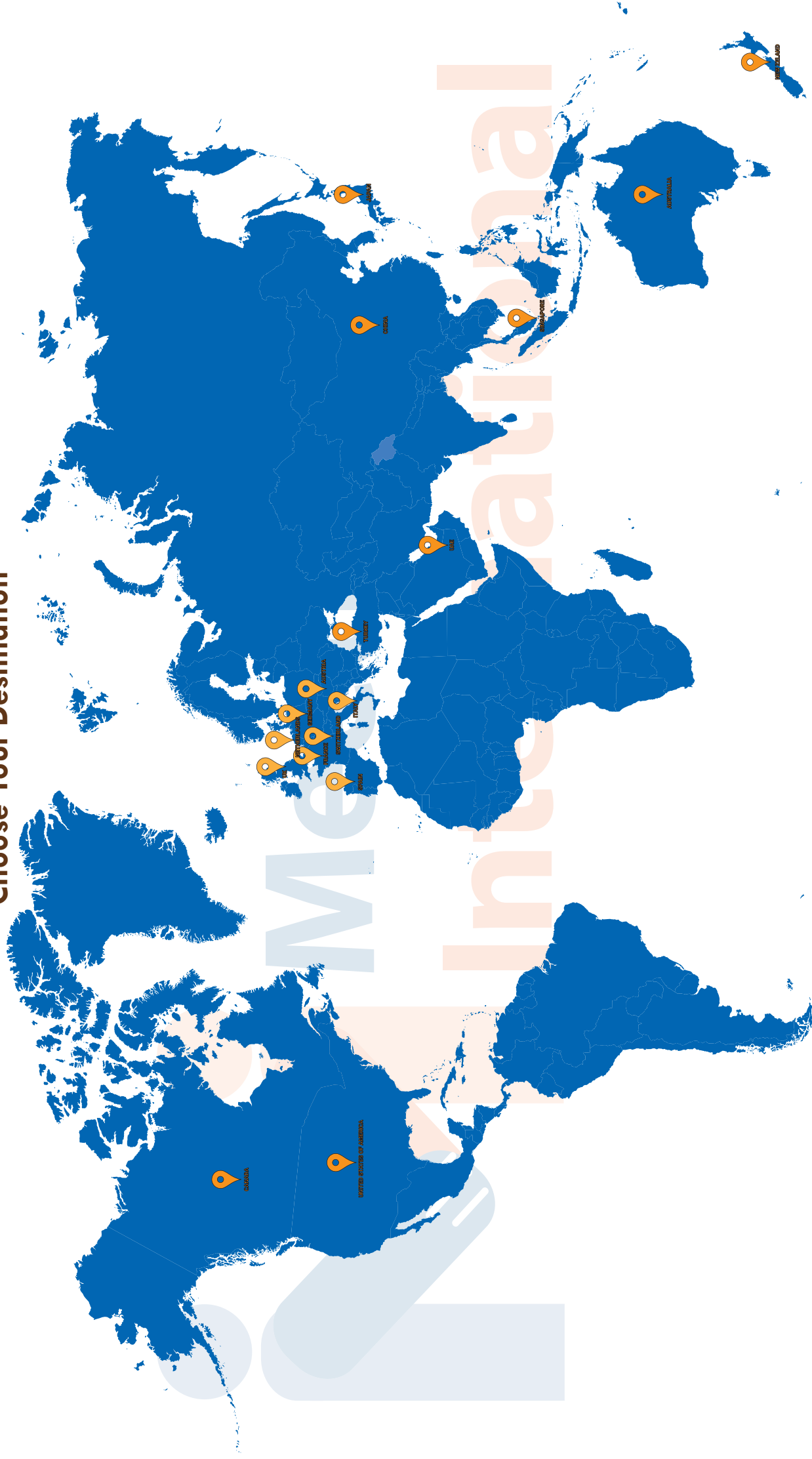
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