

Table of Contents

Session 1

- Application of Artificial Neural Networks to Predict Fructose Concentration 1
N. A.Rahman, M.A.Hussain, J. Jahim and S.R.S. Abdullah
- Assessment of Lead Residue in Raw Milk Obtained from Regions of Hamadan province in Iran 7
Mohammadreza Moradi, Iraj salehi, Hadi Beiginejad, Jalal Pourtaghi and Zahra Nanzari
- Effects of Several Natural Extracts on Experimental Gouty Arthritis in Rats 12
Zesheng Zhang, Hongmei Xu, Sen Li, Weirui Zhang and Shen Shi
- Effect of Iron and Zinc Supplementation on Cognitive Functions of Female Adolescents in Chennai, India 17
Anna Rangini Chellappa and Karunanidhi.S
- Thermic Effects of Protein from Animal and Plant Sources on Postprandial Energy Expenditures in Healthy Female Adults 25
A.Fahmy Arif Tsani, Myunghee Kim and Eunkyung Kim

Session 2

- Relationship between the Level of Knowledge and Street Food Consumption Patterns with Nutritional Status of Children 30
Towi Kusmandayu and Lailatul Muniroh
- Screening, Production Purification and Potential Use of Bacteriocins from Lactic Acid Bacteria of Meat and Dairy Food Origin 35
Tejpal Dhewa
- Short-term Satiety of High Protein Formula on Obese Subjects: A Pilot Study 42
Kamalita Pertiwi, Susana and Astri Kurniati
- Partial Characterization of Collagen from Pharaoh Cuttlefish (*Sepia Pharaonis*) Skin 47
Sitthipong Nalinanon, Soottawat Benjakul and Hideki Kishimura
- Comparative Physical Characterization of Water Ratio Changes of Hang Rice during Cooking 52
Soraya Kerdpiboon and Darika Charoendee

Session 3

- Baseline Gender Disparities Relevant to a Nutrition Education Strategy in Rural Bangladesh 56
Emily Hillenbrand
- Microbiological Quality of Mixed Fresh-Cut Vegetable Salads and Mixed Ready-to-Eat Fresh Herbs in Mashhad, Iran 62
Mohammad B. Habibi Najafi and M. Bahreini
- Role of Antioxidants in Mercuric Chloride Induced Renal Damage Treated With the Ethanolic Extract of *Tabernaemontana Coronaria* in Wistar Albino Rats. 67
Uma C, Poornima K, Surya S, Ravikumar G and Gopalakrishnan V K
- Detection for Moisture Content of Sweet Tamarind Flesh by Transmittance Short 71

| | |
|--|-----|
| Wavelength near Infrared Spectroscopy <i>Sineenart Suktanarak and Sontisuk Teerachaichayut</i> | |
| Optimization of Pulsed UV Light Irradiation for the Production of Vitamin D ₂ , Bioactive Metabolites and Antioxidant Activity of <i>Cordyceps Militaris</i> Mycelia <i>Agnes Purwidyantri, Arif Rahmandita and Shu-YaoTsai</i> | 76 |
| Session 4 | |
| Brix-acid Ratio Detection for Pomegranates Using Multivariate Equation <i>Sompong Nandee and Sontisuk Teerachaichayut</i> | 82 |
| Effects of Rosemary Extract on the Lifespan and Antioxidant System of <i>Drosophila</i> <i>ZHANG Ying, WEN Sheng-Ping and ZHANG Ze-Sheng</i> | 87 |
| Moisture Content and Physical Properties of Instant Mashed Potato <i>Tongchai Puttongsiri, Natthika Choosakul and Duangrat Sakulwilaingam</i> | 92 |
| Establishment and Evaluation of the Reporter Platforms for Screening Health Food with Anti-inflammation Ability <i>Chung-Huang Wang, Wang-JuHsieh, Ting-Jang Lu, Hsiao-Chi Wang and Shu-Chen Hsieh</i> | 96 |
| Goal Setting to Promote a Health Lifestyle <i>Raheem J. Paxton, Wendell C. Taylor, Gina Evans Hudnall and Juliette Christie</i> | 101 |
| Session 5 | |
| Identification of Transglutaminase-Producing Bacterium Isolated from Seafood Processing Wastewater <i>Suwanee Khunthongpan, Aran H-Kittikun, Chaiwut Bourneow, Somboon Tanasupawat and Punnanee Sumpavapol</i> | 106 |
| Screening and Identification of Probiotic Lactic Acid Bacteria Isolated from <i>Poo-Khem</i> , a Traditional Salted Crab <i>Ruethaiwan Senthong, Suphitchaya Chanthachum and Punnanee Sumpavapol</i> | 111 |
| Antibacterial Activity of Selected Plant By-products Against Food-borne Pathogenic Bacteria <i>Suchanuch Wonghirundecha and Punnanee Sumpavapol</i> | 116 |
| Characterization of Lactic Acid Bacteria Isolated from <i>Kung-Som</i> , a Traditional Fermented Shrimp, in Respect of Their Probiotic Properties <i>Nantida Dangkhaw, Suppasil Maneerat and Punnanee Sumpavapol</i> | 121 |
| Antibacterial Activity of Selected Thai Indigenous Plants Against Food-Borne Pathogenic Bacteria <i>Punnanee Sumpavapol, Saranrat Jamderm and Waris Saeng-ubon</i> | 126 |
| Session 6 | |
| CRP and IGA Levels in Wasting Children under Five Based on Zinc and Retinol Level <i>Merryana Adriani, Bambang Wirjatmadi, Virginia Utermohlen and Kuntoro</i> | 131 |
| The Nutrition Transition and Adequacy of the Diet of Pregnant Women in Kenya <i>Nelia P Steyn, Whadi-ah Parker, Johanna H Nel, Ayah Rosemary and Dorcus Mbithe</i> | 137 |
| The Role of Albumin in Adding Zinc to Vitamin A Supplementation on Taste Acuity and Body Weight in Wasted Children | 142 |

Merryana Adriani and Bambang Wirjatmadi

Nutritional Knowledge, Attitude and Practices and Nutritional Status of School-Going Children in Machakos District, Kenya 147
Mbithe Dorcus David, Judith Kimiywe and Judith Waudo

Diversity of Nutrient Intake in Pregnant Women with Different Nutritional Behaviors 153
Mitra Mirsanjari, Wan Abdul Manan Wan Muda, Affizal Ahmad, Mohd Shukri Othman and Mir Mehrdad Mirsanjari

Session 7

Does Nutritional Knowledge Have Relationship with Healthy Dietary Attitude and Practices during Pregnancy? 159
Mitra Mirsanjari, Wan Abdul Manan Wan Muda, Affizal Ahmad, Mohd Shukri Othman and Maryam Mosavat

Potential of Traditional Medicinal Plants for Treating Obesity: A Review 164
Mahnaz Kazemipoor, Che Wan Jasimah Wan Mohamed Radzi, Geoffrey A. Cordell and Iman Yaze

Assessment of Intra-Household Nutritional Status in a Rural Nigerian Population 170
Helen Henry-Unaeze, E.K Ngwu and U.A Okore

Propolis Inhalation Reduces Allergic Airway Inflammation in *Dermatophagoides Farinae* -Treated Mice. 175
Ryoji HIROTA, Nlandu Roger NGATU, Hiroyuki NAKAMURA and Narufumi SUGANUMA

Antimutagenic and Antimicrobial Activities of γ -Aminobutyric Acid (Gaba) Tea Extract 178
Jeng-Leun Mau, Shiow-Ying Chiou, Ching-An Hsu, Hsiu-Lan Tsai and Sheng-Dun Lin

Session 8

Study of Antimicrobial Activity of Aminoreductone Against the Antibiotic Susceptibility and Resistant Pathogenic Bacteria: *Pseudomonas Aeruginosa*, *Escherichia Coli* and *Staphylococcus Aureus* 183
Vu Thu Trang, Lam Xuan Thanh and Hiroaki Takeuchi

Knowledge, Attitude, and Practice of Healthy Eating among the 1st and 2nd Year Students of Universiti Malaysia Sarawak (UNIMAS) 188
Phyu Phyu Aung, Chan Siew Foung, Khairunnisa Binti Azman, Nurul Ain Binti Zulkifeli and Yong Siew Hong

Biosynthesis of Zinc Nanoparticles Using Actinomycetes for Antibacterial Food Packaging 195
Usha Rajamanickam, Priyanga Mysamy, Subadhra Viswanathan and Palaniswamy Muthusamy

Effect of Locally Made Ready-to-Use Therapeutic Food –Mushpro Health Drink Powder (MHDP) for Treatment of Malnutrition on Children Aged 6 to 72 Months in Rural Area of Maharashtra, India: A Randomized Control Trial 200
Vinod Wasnik and Manoj Rathi

A Comparison between Venous and Finger-Prick Blood Sampling on Values of Blood Glucose 206

Session 9

| | |
|--|-----|
| Study on Amino Acid Content in Selected Varieties of <i>Pisum Sativum</i> (peas) by Ion Exchange Chromatography <i>Ranjani Amarakoon</i> | 211 |
| Hypocholesterolemic Effect of Spray Dried Pitaya Powder (SDPP) Among Normocholesterolemic Subjects in Mempaga, Bentong. <i>Siti Raihanah S, Rokiah MY, Mohd Al-Saufreen A and Asmah R</i> | 215 |
| Genotoxicity of <i>Euphorbia Hirta</i> on <i>Allium Cepa</i> Assay <i>Kwan Yuet Ping, Ibrahim Darah, Umi Kalsom Yusuf and Sreenivasan Sasidharan</i> | 222 |
| The <i>In Vitro</i> Antioxidant Activity of <i>Polyalthia Longifolia</i> <i>Subramanion L Jothy, Azlan Aziz and Sreenivasan Sasidharan</i> | 226 |
| Hepatoprotective Potential of <i>Elaeis Guineensis</i> Leaf Against Paracetamol Induced Damage in Mice: A Serum Analysis <i>Sreenivasan Sasidharan, Soundararajan Vijayarathna, Subramanion L Jothy, Kwan Yuet Ping and Lachimanan Yoga Latha</i> | 231 |

Session 10

| | |
|---|-----|
| Physicochemical and Thermal Properties of Non-Waxy Rice Flour as Affected by Waxy Rice Flour and Its Influence on Textural and Cooking Properties of Rice Spaghetti <i>Pakkawat Detchewa, Masubon Thongngam and Onanong Naivikul</i> | 235 |
| Level of Xanthophyll, Lutein and Zeaxanthin in Selected Thai Fruits Determined by HPLC <i>Nittaya Khonsarn and Siriporn Lawan</i> | 240 |
| Content of Beta-Carotene, Xanthophyll, Lutein and Zeaxanthin in Vegetables as Thai Side Dish <i>Busaba Tharasena and Siriporn Lawan</i> | 244 |
| Effects of D-Tagatose and Inulin as Sugar Substitutes on the Chemical, Rheological and Sensory Properties of Prebiotic Dark Chocolate <i>Mehri Shourideh, Aghdas Taslimi, Mohammad Hossain Azizi, Mohammad Amin Mohammadifar</i> | 249 |
| Author Index | 255 |