

PAK 2

by Ari Yuniastuti

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1st **INTERNATIONAL CONFERENCE ON ANTIOXIDANTS AND
DEGENERATIVE DISEASES**

3-4 JUNE 2015

ISTANA HOTEL
KUALA LUMPUR
MALAYSIA

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Welcome Note

A very warm welcome to all participants and invited speakers to the 1st International Conference on Antioxidants and Degenerative Diseases (ICADD 2015). This conference is hosted by Antioxidants, Ageing and Degenerative Diseases Research Group, the National University of Malaysia (UKM), together with the Faculty of Medicine, UKM.

The conference committee has put together a truly unique programme which includes a series of state-of-the-art plenary lectures that will be presented by local and international renowned experts from all over the world. For free communication and poster presentations, we received abstracts from at least 15 countries such as Japan, Republic of Korea, Taiwan, India, Sri Lanka, Indonesia, Singapore, Thailand, Turkey, Egypt, Saudi Arabia, Bangladesh, USA, Europe and Malaysia. We believe that this conference will be an excellent platform to merge molecular biology research and clinical applications, in delivering new updates in antioxidants and degenerative diseases and will certainly provide a networking opportunity for researchers and clinicians to enhance their knowledge and collaboration in research.

We would like to thank the Government of Malaysia and Universiti Kebangsaan Malaysia particularly Faculty of Medicine, UKM for their support, the sponsors for their generous contributions and all organising committee members for their hard work in the organisation of this conference. We hope that this conference will be memorable, highly educational and inspire the participants to conduct truly transformative research in the future.

Thank you,



Dr. Mohd Hanafi Ahmad Damanhuri
Chairman
1st International Conference on Antioxidants &
Degenerative Diseases
ICADD 2015



Prof. Dr. Suzana Makpol
Co-Chairman
1st International Conference on
Antioxidants & Degenerative Diseases
ICADD 2015

3 JUNE 2015
MAHKOTA 2 BALLROOM

0730 - 0830	Registration of participants
0830 - 0915	PLENARY 1 The Insulin-Like Effect of Lipoic Acid on Brain Ageing and a Mouse Model of Alzheimer's Disease <i>Professor Dr. Enrique Cadenas (School of Pharmacy, University of Southern California, USA)</i> Chairperson: Professor Dr. Yasmin Anum Mohd Yusof
0915 - 1015	Opening Ceremony
1015 - 1030	Tea Break
1030 - 1145	Symposium 1 Theme: Antioxidants in Metabolic Diseases Chairperson: Professor Dr. Yoshikazu Yonei, Associate Professor Dr. Norzana Abd Ghafar
	1030 - 1055 Antioxidants and Metabolic Syndrome <i>Professor Dr. Nafeeza Mohd Ismail (Faculty of Medicine, Universiti Teknologi MARA, Malaysia)</i>
	1055 - 1120 Antioxidants and Cardiovascular Disease: Clinical Perspective <i>Dr. Abdul Rashid Abdul Rahman (An Nur Specialist Hospital and Malaysian Institute of Graduate and Higher Training)</i>
1120 - 1145	Antioxidants and Metabolic Diseases: Clinical Concept <i>Associate Professor Dr. Norlaila Mustafa (Faculty of Medicine, Universiti Kebangsaan Malaysia, Malaysia)</i>
1145 - 1230	PLENARY 2 Modulation of Redox Balance by Antioxidants in Carcinogenesis <i>Professor Dr. Ah-Ng Tony Kong</i> <i>(Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, USA)</i> Chairperson: Professor Dr. Paul W. Sylvester
1230 - 1300	Sponsored Lunch Talk by Perkin Elmer New Techniques for Fluorescence Microscopy in Quantitative Pathology <i>Mr. Chris Johnson</i>
1300 - 1400	Lunch
1400-1515	Symposium 2 Theme: Antioxidants in Degenerative Diseases Chairperson: Professor Dr. Suzana Makpol, Professor Dr. Ikuo Tooyama
	1400 - 1425 Synergistic Effects of Omega-3 Polyunsaturated Fatty Acids in Chemoprevention and Chemotherapy <i>Professor Dr. Hye-Kyung Na (College of Human Ecology, Sungshin Women's University, Korea)</i>
	1425 - 1450 Antioxidants in Degenerative Diseases: Special Focus on Honey <i>Professor Dr. Gan Siew Hua (School of Medical Sciences, Universiti Sains Malaysia, Malaysia)</i>
1450 - 1515	DNA Methylation in Ageing, Disease Risk and Cancer <i>Dr. Holger Heyn (Bellvitge Biomedical Research Institute, L'Hospitalet de Llobregat, Spain)</i>
1515 - 1600	PLENARY 3 Extension of the Healthspan by Antioxidants: True or False? <i>Professor Dr. Yoshikazu Yonei (Department of Medical Life Systems, Doshisha University, Japan)</i> Chairperson: Professor Dato' Dr. Wan Zurinah Wan Ngah
1600 - 1730	Free Communication 1 Chairperson: Dr. Goon Jo Aan, Dr. Norwahidah Abd Karim
1730 - 1745	Tea Break

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International Conference on Antioxidants and Degenerative Diseases (ICADD) 2015
3-4 June 2015, Istana Hotel, Kuala Lumpur, Malaysia

4 JUNE 2015
MAHKOTA 2 BALLROOM

0730 - 0815	Interactive Breakfast Workshop Title: Enhancing Antioxidant and Natural Product Research Moderator: <i>Professor Dr. Mohd Ilham Adenan (Universiti Teknologi MARA, Malaysia)</i> Panels: <i>Professor Dr. Ibrahim Jantan (Universiti Kebangsaan Malaysia, Malaysia),</i> <i>Professor Dato' Dr. Wan Zurinah Wan Ngah (Universiti Kebangsaan Malaysia, Malaysia),</i> <i>Professor Dr. Zhari Ismail (Universiti Sains Malaysia, Malaysia)</i>	
0830 - 0845	Sponsored Breakfast Talk by Straits Scientific Personalised Cytometer for Multicolour Experiment <i>Ms Toh Xue Yun</i>	
0845 - 1015	Free Communication 2 Chairperson: Associate Professor Dr. Zakiah Jubri, Associate Professor Dr. Azman Abdullah	
1015 - 1100	PLENARY 4 Antioxidant Vitamins and Cancer Prevention: Is It Still Relevant? <i>Professor Dr. Paul W. Sylvester (School of Pharmacy, University of Louisiana at Monroe, USA)</i> Chairperson: Professor Dato' Dr. Wan Zurinah Wan Ngah	
1100 - 1145	Tea Break & Poster Judging	
1145 - 1300	Symposium 3 Theme: Updates in Technology in Antioxidants Research Chairperson: Professor Dr. Aishah Adam, Professor Dr. Ibrahim Jantan	
	1145 - 1210	Integrative Approach in Natural Products Research to Discover Lead Antioxidant and Anti-Inflammatory Principles for Development of New Drugs and Herbal Medicines <i>Professor Dr. Ibrahim Jantan (Faculty of Pharmacy, Universiti Kebangsaan Malaysia, Malaysia)</i>
	1210 - 1235	Oxidative Stress as a Potential Marker of Risk to Degenerative Diseases <i>Professor Dato' Dr. Wan Zurinah Wan Ngah (Faculty of Medicine, Universiti Kebangsaan Malaysia, Malaysia)</i>
	1235 - 1300	Developing Antioxidants for Clinical Trials <i>Professor Dr. Zhari Ismail (School of Pharmaceutical Sciences, Universiti Sains Malaysia, Malaysia)</i>
1300 - 1400	Lunch	
1400 - 1445	PLENARY 5 Targeting Antioxidant Pathways in Neurodegeneration <i>Professor Dr. Ikuo Tooyama (Molecular Neuroscience Research Center, Shiga University of Medical Science, Japan)</i> Chairperson: Dr. Mohd Hanafi Ahmad Damanhuri	
1445 - 1530	PLENARY 6 Antioxidants Research: The Way Forward <i>Professor Dr. Young-Joon Surh (College of Pharmacy, Seoul National University, Korea)</i> Chairperson: Professor Dr. Nafeeza Mohd. Ismail	
1530 - 1645	Symposium 4 Theme: Future Research Direction of Antioxidants in Health Chairperson: Professor Dr. Ah-Ng Tony Kong, Associate Professor Dr. Norlaila Mustafa	
	1530 - 1555	Natural vs. Synthetic Antioxidants for Health and Diseases <i>Professor Dr. Aishah Adam (Faculty of Pharmacy, Universiti Teknologi MARA, Malaysia)</i>
	1555 - 1620	Modulation of Gene Expression by Antioxidants to Delay Ageing <i>Professor Dr. Suzana Makpol (Faculty of Medicine, Universiti Kebangsaan Malaysia, Malaysia)</i>
1620 - 1645	Conservation of Natural Antioxidants for Sustainability <i>Professor Dr. Mohd Ilham Adenan (Atta-ur-Rahman Institute for Natural Product Discovery, Universiti Teknologi MARA, Malaysia)</i>	
1645 - 1715	Closing Remarks and Award of Prizes	

NP-30

The Effect of Persea Americana Mill Juice on Serum Homocysteine and Plasma Malondialdehyde Levels in Streptozotocin (STZ)-Induced Sprague Dawley Rats**Yuniastuti A** and Iswari RBiology Department, Faculty of Mathematic and Sciences Semarang State University (UNNES)
Semarang, Central Java, Indonesia

Background: Diabetes mellitus (DM) associated with increased level and oxidative activity of homocysteine (Hcy) that cause oxidative stress. Plasma malondialdehyde (MDA) known as a marker oxidative stress. Persea Americana Mill is folate contain and required to decrease Hcy level. Folate acting as methyl donor in metabolism of Hcy to be methionine, and prevent oxidative stress. The objective of our study is to demonstrate the effect of 50-days gradual dose Persea americana Mill juice on the decreased of plasma Hcy and MDA levels in Sprague Dawley rats induced by STZ.

Methods: An experimental study with a randomized controlled group pretest post-test design. Subject population was SD rats induced by 40 mg/kg weight i.p of STZ. Forty two samples were divided into 6 groups (C+, C-, X0, X1, X2 and X3). Serum Hcy was measured by Enzyme linked Immunoabsorbent Assay (Elisa), and plasma MDA by TBARS method. Data was analyzed by Wilcoxon and Kruskal Wallis test.

Results: Serum level of Hcy before and after supplementation in group C+: 19 $\mu\text{mol/L}$ and 18 $\mu\text{mol/L}$, C-: 29 $\mu\text{mol/L}$ and 33 $\mu\text{mol/L}$, X0: 27 $\mu\text{mol/L}$ and 21 $\mu\text{mol/L}$ respectively; group X1: 28 $\mu\text{mol/L}$ and 24 $\mu\text{mol/L}$, respectively; group X2: 29 $\mu\text{mol/L}$ and 20 $\mu\text{mol/L}$ respectively, groups X3: 25 $\mu\text{mol/L}$ and 18 $\mu\text{mol/L}$ respectively. Serum Hcy levels was significantly different in group X3 before and after 5ml Persea Americana Mill juice ($p=0,000$). Serum Hcy level decreases in treatment and control group no significant different ($p=0,762$). Plasma MDA levels before and after treatment in group C+: 27 $\mu\text{mol/L}$ and 26 $\mu\text{mol/L}$ respectively; group C-: 34 $\mu\text{mol/L}$ and 38 $\mu\text{mol/L}$ respectively, group X0: 34 $\mu\text{mol/L}$ and 35 $\mu\text{mol/L}$ respectively; group X1: 30 $\mu\text{mol/L}$ and 18 $\mu\text{mol/L}$ respectively, group X2: 29 $\mu\text{mol/L}$ and 18 $\mu\text{mol/L}$ respectively; group X3: 25 $\mu\text{mol/L}$ and 14 $\mu\text{mol/L}$ respectively. Decrease of plasma MDA level significantly different between treatment and control ($p=0,018$).

Conclusion: Persea Americana Mill juice in SD rats induced by several dose of STZ can reduce serum Hcy level and on plasma MDA level, this might be concern with other source of oxidative stress beside lipid peroxide caused by Hcy.

Keywords: Persea Americana Mill, malondialdehyde, homocysteine



CERTIFICATE OF ATTENDANCE

This is to certify that

Dr. Ari Yuniastuti, M.Kes.

has participated in the

International Conference on Antioxidants & Degenerative Diseases

held on

3rd & 4th June 2015

at

Istana Hotel, Kuala Lumpur

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Prabhu, M.; Srinivasan, N.; Narmadha, M. P. and Radha, R.. "Investigation of the Effect of Metformin on the Level of Plasma Homocysteine, Vitamin B₁₂ and Folic Acid in Type II Diabetes Mellitus Patients", Journal of Pharmacy Research, 2014.

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