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Dina Rahayuning Pangestuti, STP, M.Gizi

as a presenter in the 3rd International Symposium on Food and
Agro-biodiversity (the 3rd ISFA) on 14-15 September 2021



Professor Bambang Waluyo Hadi Eko Prasetyono

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Lead Content of Human Milk in Lowland and Highland Agricultural Areas

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Human milk is a golden source of nutrition for infants, especially at the age of 0-6 months. The risk of food contamination at this age will have an impact on the health of the infant, both in the short and long term. Currently, the presence of lead in agricultural areas is a contaminant from agricultural activities. Human milk containing lead can cause tissue damage, inhibit the formation of red blood cells and also inhibit growth. This study aims to compare the lead content of human milk from breastfeeding mothers in agricultural areas in the highlands (43 mothers) and lowlands (28 mothers). Anthropometric measurements were performed on the mother. Blood lead level (BLL) was analysed using atomic absorption spectrophotometry (AAS), while human milk lead (HML) used ICP OES. Mann-Whitney test was used for data analysis. The average age of the mother was 26±5 years, weight 60.5±15.7 kg, height 158.2±70.7 cm, Hb level 12.5±1.9 µg/dL, HML 19.27±15.9 µg/dL, and BLL (highland) 32.34±13.3 µg/dL. The mean age of babies was 99 days and 40% of babies were boys. It was found that

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Opportunities and Challenges of Sustainable Agriculture
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The current symposium will be an event for experts in sustainable agriculture, sustainable food production and sustainable agribusiness to share the recent works in their fields. Therefore, these following experts will be sharing as the keynote speakers.

1. Prof Maurice Ku – Plant Molecular Biology: Engineering C4 Rice (Department of Bioagricultural Sciences, College of Agriculture, National Chiayi University, Taiwan)
2. Prof Joost van den Borne – Animal Production and Healthy Farming (HAS University of Applied Sciences, Netherland)
3. Prof Shigeru Hayakawa – Food Science (Kagawa University, Japan)
4. Prof Indrawati Oey – Food Processing (Department of Food Science, University of Otago, New Zealand)
5. Dr Hii Ching Lik – Drying Technology (Nottingham University, Malaysia)
6. Prof Peter J Batt – Social Science (Curtin University, Australia)

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Hybridization of freeze drying and impacts on drying kinetics and dried product quality of kedondong fruits CT Ee, CL Hii, SP Ong, CL Law, CH Tan Drying Technology 40 (16), 3413-3424	3	2022
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