

Sorghum Tempeh on Cholesterol Levels and Histopathology of Aorta in High-Fat Diet induced Rat Model

Short Running Title: Sorghum Tempeh on Hypercholesterolemia Rat Model

Dear Editor,

We would like to submit the manuscript entitled “Sorghum Tempeh on Cholesterol Levels and Histopathology of Aorta in High-Fat Diet induced Rat Model” by Francisca Natalia Bintang, Endang Sri Lestari, Diana Nur Afifah, Muflihatul Muniroh, Gemala Anjani, Ahmad Syauqy, Kis Djamiatun to be considered for publication as an original article in the Journal of Biomedicine and Translational Research. We confirm that this work is original and has neither been published elsewhere nor currently under consideration for publication elsewhere.

In this paper, we report on the effect of sorghum tempeh on total cholesterol levels and histopathology of aorta in rats fed high-fat diet. Sorghum known as a cereal that has a high starch content and a high bioactive component. Sorghum tempeh is sorghum product fermented by *Rhizopus sp.* to produce a protease enzyme that has proteolytic activity and increases phenolic acids, thereby helping to increase the micronutrient bioavailability, protein digestibility, and the nutritional value composition.

Based on the results, sorghum tempeh could reduce serum total cholesterol levels and improve foam cells found in histopathology of aorta. Sorghum tempeh products with high fiber and antioxidant content can be considered as formulas for hypercholesterolemia and atherosclerosis indication.

Thus, our findings will allow the reader to understand the effect of sorghum tempeh as local food ingredient development high in fiber and antioxidant. We believe this manuscript related to aim and scope this journal and also contribute meaningfully for publication by the Journal of Biomedicine and Translational Research.

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Submissions Template for Authors

Letter to the Editor

Instructions/Template for Preparing Manuscript for Journal of Biomedicine and Translational Research

Sincerely,

Francisca Natalia Bintang^{1*}, Endang Sri Lestari³, Diana Nur Afifah^{1,2}, Mufflihatul Muniroh⁴, Gemala Anjani^{1,2}, Ahmad Syauqy^{1,2}, Kis Djamiatun⁵

¹ *Department of Nutrition Science, Faculty of Medicine, Universitas Diponegoro, Indonesia*

² *Center of Nutrition Research, Universitas Diponegoro, Indonesia*

³ *Department of Clinical Microbiology, Faculty of Medicine, Universitas Diponegoro, Indonesia*

⁴ *Department of Physiology, Faculty of Medicine, Universitas Diponegoro, Indonesia*

⁵ *Parasitology Department, Faculty of Medicine, Universitas Diponegoro, Indonesia*

**Corresponding Author: d.nurafifah.dna@fk.undip.ac.id (0877-7038-0468)*

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