

2nd ICST 2017

THE EMERGENCE OF
SCIENCE FOR HUMAN
PROSPERITY AND HEALTH

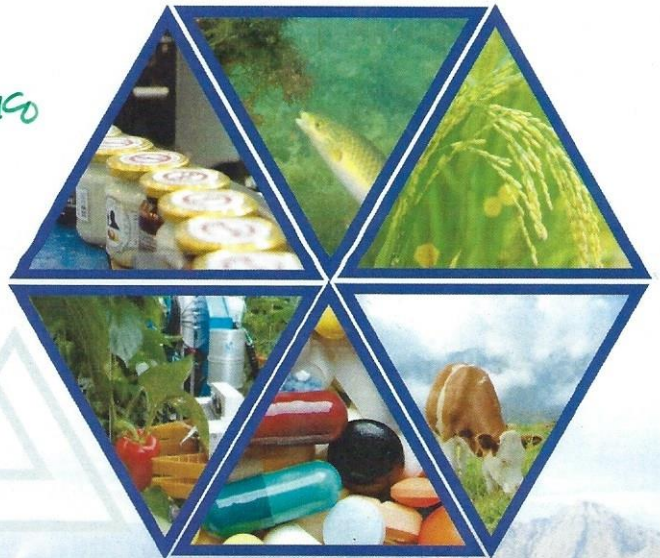
Joint International Conference on Science and
Technology in The Tropic

Organized by:
University of Mataram, Indonesia and University of Malaya, Malaysia

BOOK OF ABSTRACTS

AUGUST 23rd-24th 2017
UNIVERSITY OF MATARAM

Dr. SATRIJO SAGISO



Effect of Blanching and Peeling of Pigeon Pea Seeds (*Cajanus Cajan L. Millsp*) on Anthocyanin and Sensory Properties of Functional Analogue Rice

Sri Widyastuti¹⁾, Satrijo Saloko¹⁾*, Muktasam¹⁾
Rumiyati²⁾, Agung Endro Nugroho²⁾, Yudi Pranoto²⁾,
Yekti Asih Purwestri²⁾, Dody Handito¹⁾, Haliluddin¹⁾,
Janet Reid³⁾

¹⁾Mataram University, Corresponding author: satrijo_s@yahoo.com

¹⁾Mataram University,

²⁾Universitas Gadjah Mada,

³⁾Massey University

ABSTRACT This study aimed to determine the effect of blanching and the peeling of pigeon pea on anthocyanin, moisture content, protein content, crude fiber content, rehydration, color and sensory properties of functional analogue rice. This study used a completely randomized block design (RCBD) consisted of two factors (blanching and peeling) with 4 treatments and replicates. Data were analyzed using ANOVA at 5% level and continued with Honestly Significant Difference. There was no interaction effect of the two treatments on all parameters. Blanching itself significantly reduced crude fiber and peeling also significantly reduced anthocyanin, crude fiber content, color and sensory of functional analogue rice. The best treatment was with blanching and no peeling resulted analogue rice with anthocyanin content at 6.58 mg/L; moisture 6.22%; protein 6.26%; crude fiber content 3.74%; rehydration 157.20%; the value of L* 42.51; the value of a* 7.13; the value of b* 25.06. Organoleptic data also shown that the rice was acceptable favored in taste, aroma and texture .

(**Keywords:** Anthocyanin, Blanching, Peeling, Functional Analogue Rice)



Certificate

Awarded to
Satrijo Saloko
As Presenter

The 2nd International Conference on Science and Technology

“Joint International Conference on Science and Technology in The Tropic”

at University of Mataram
West Nusa Tenggara, Indonesia

August, 23rd - 24th 2017



University of Mataram
Rector,

Prof. Ir. H. Sunarpi, Ph.D.

The 2nd ICST 2017
Chairman,

2nd ICST 2017
THE EMERGENCE OF SCIENCE
FOR HUMAN PROSPERITY AND HEALTH

Dr. rer. nat. Lalu Rudyat Telly Savalas