

Security in  
food,  
renewable  
resources,  
and  
natural  
medicines



# The 2<sup>nd</sup> International Conference on Security in Food, Renewable resources, and Natural Medicines 2018 (SFRN 2018)



Organized by  
**Universitas Andalas**

Co-Host  
**Politeknik Pertanian  
Negeri Payakumbuh**

In collaboration with  
**Indonesian Society of  
Agricultural Engineers**

Editor:  
**MUHAMMAD MAKKY**

**Convention Hall, Universitas Andalas  
Padang, West Sumatra, Indonesia  
October 25-26, 2018**



Stunting Problems and Interventions to Prevent Stunting at Elementary School In LimaPuluh Kota Regency

RinceAlfa Fadri<sup>1)</sup>, Kesuma Sayuti<sup>2)</sup>, Sri Kembaryanti Putri<sup>1)</sup>, Salvia<sup>3)</sup>,  
Student at Andalas University's Agricultural Doctoral Program  
Department of Agricultural Processing Technology, Faculty of Agricultural Technology,  
Andalas University  
Farm Study program of Agriculture Polytechnic State of Payakumbuh  
E-mail: alfiarince@gmail.com

#### ABSTRACT

One of Sustainable Development Goals (SDGs) action is Life Quality Repair, the strengthening of food resilience and nutrition to lower the prevalence of stunting (children with a short body). For it in the Country's Medium Term Development Plan 2015 – 2019 has stated that one of the priorities of national development in the field of health in support of the welfare society is stunting prevalence decreases. To achieve this it needs to be started early and including in the age of elementary school children. Nutrient deficiencies for now at this age is still a problem, it is evident from the high prevalence of stunting in Lima Puluh Kota regency. This research used design cross sectional aims to find out the factors that relate with the nutritional status of elementary school age children. Research done in Lima Puluh Kota Regency amounted to 90 people. Data were collected using a questionnaire, which includes nutritional knowledge, mothers characteristics, economic level, nutrient intake, and energy intake. From this research found the prevalence of short children (stunting) amounted to 11.8%, most mothers have low education levels (60.3%). The majority of mothers are working (83.6%), maternal nutritional knowledge is still low (73.9%), more are on the low economic level (80.9%), Energy intake is more that < 90% of the number of nutritional adequacy (74%), while the more protein intake  $\geq$  90% of the number of nutritional adequacy. From statistical tests found a meaningful relationship between the mother's level of education and economic levels with nutritional status. The conclusions of this research, the factors affecting nutritional status is the level of education of the mother and the level of the economy. For that need special attention from policy makers of nutritional intervention problems to the toddlers and further research.

Keywords— Nutrient Status, Stunting, Food Consumption

## O-786/UA/PLT/IC-SFRN 2018

Characteristics Of Smoothy Mangostana Drink From Various Starter Concentrations A  
Dilution Level Of Mangosteen Peel Extract

Inwan Roza 1Ewawati 1and Rinca Alfia Fadri 1

1)Program Studies Food Technology Departement of Agricultural Technology  
Agricultural Polytechnic State Payakumbuh,  
West Sumatra, Indonesia 26571  
E-mail korespondesi: Irwanroza6238@yahoo.com  
ewawati72@yahoo.com

### ABSTRACT

This study aims to determine the best concentration of starter and the best dilution level of skin powder extract in the processing of smoothymangostanadrink frommangosteen peel extract.the concentration of starter used was 2%, 4%, 6% and 8 dan, 10% with the dilution level of mangosteen peel extract 1:30; 1:40; 1: 50. Smoothymangostana drink type the produced will be analyzed for ph, total lactic acid, total phenol, and antioxidant activity.

From the results of the study showed differences in starter concentration and dilution level of mangosteen peel extractand the interaction of both gave a significantly different effect on pH, total lactic acid, total phenol, and antioxidant activity of smoothymangostanadrink .The best concentration of starter in making drink type from mangosteen peel powder is 6% with a dilution level of 1:30 with a pH of 4,2, total lactic acid bacteria at 108 dilution level could not be calculated , total phenol 17 mgGAE/g and antioxidant activity (% inhibition of 1000 ppm to 50  $\mu$ M DPPH) 68.39%

Keyword :smoothy mangostana drink and antioxidant

