#### عنوان مقاله:

Evaluation of Caffeine Ingested Timing on Endurance Performance based on CYPIAY rsystaan Profiling in Healthy

Sedentary Young Adults

### محل انتشار:

مجله گزارش های بیوشیمی و زیست شناسی مولکولی, دوره 11, شماره 4 (سال: 1401)

تعداد صفحات اصل مقاله: 9

## نویسندگان:

Yones Guntoro Aji - Department of Food Technology, Faculty of Biotechnology, Atma Jaya Catholic University of Indonesia, Jakarta 179%, Indonesia

Stella Melita - Department of Food Technology, Faculty of Biotechnology, Atma Jaya Catholic University of Indonesia,

.Jakarta ۱۲۹۳۰, Indonesia

Rendy Dijaya - Nutrifood Research Center, PT. Nutrifood Indonesia, Jakarta 1997, Indonesia

Dionysius Subali - Department of Biotechnology, Faculty of Biotechnology, Atma Jaya Catholic University, of Indonesia, Jakarta 149%, Indonesia

Felicia Kartawidjajaputra - Nutrifood Research Center, PT. Nutrifood Indonesia, Jakarta 1897, Indonesia

.Antonius Suwanto - Departement of Biology, Faculty of Mathematics and Natural Sciences, IPB University

#### خلاصه مقاله:

Background: Caffeine is generally suggested to increase VOYmax in endurance performance. Nevertheless, the response to caffeine ingestion does not seem to be uniform across individuals. Therefore, caffeine ingested timing on endurance performance based on the type of CYP\AY single nucleotide polymorphism rsY۶Y\DA\), that were classified as fast and slow metabolizers, need to be evaluated. Methods: Thirty participants participated in this study. DNA was obtained from saliva samples and genotyped using polymerase chain reaction-restriction fragment length polymorphism. Each respondent completed beep tests under three treatments blindly: placebo, \(\mathbf{F}\) mg/kg body mass of caffeine one hour, and two hours before test. Results: Caffeine increased estimated VOYmax in fast metabolizers (caffeine=\mathbf{Y}\).\mathbf{Y}\times\mathbf{F}\times\mathbf{Y}\), placebo=\mathbf{Y}\).\mathbf{Y}\times\mathbf{F}\times\mathbf{P}\times\math

# كلمات كليدى:

.Caffeine, CYP1AY, Performance Enhancer, Sedentary, VOYmax

https://civilica.com/doc/1664625

لینک ثابت مقاله در پایگاه سیویلیکا:

