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Short Communication

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Production of Rutin and Kaempferol-3-*O*-glucuronide by Tissue Cultures of *Alpinia purpurata* (Vieill) K. Schum

Cristiane P. VICTÓRIO [1]*, Ricardo M. KUSTER [2] & Celso Luiz S. LAGE [1]

[1] *Laboratório de Fisiologia Vegetal, Instituto de Biofísica Carlos Chagas Filho Universidade Federal do Rio de Janeiro, Av. Carlos Chagas Filho, s/n, CCS, Bloco G, sala G2-050. Rio de Janeiro - RJ, 21941-902. Brazil.*

[2] *Laboratório de Fitoquímica, Núcleo de Pesquisas de Produtos Naturais (NPPN), Universidade Federal do Rio de Janeiro, Av. Carlos Chagas Filho, s/n, CCS, Bloco H, Rio de Janeiro - RJ, 21941-902. Brazil.*

SUMMARY. **The accumulation of flavonoids was evaluated in organogenic cultures of *Alpinia purpurata* through HPLC analysis. Cultures were maintained in liquid MS medium in the following treatments: MS0 (control), TDZ, BAP and IAA + TDZ. Kaempferol-3-*O*-glucuronide content was higher than rutin for all *in vitro* treatments, except by control medium in which plants did not produce kaempferol-3-*O*-glucuronide. A remarkable increase in kaempferol-3-O-glucuronide content was verified using BAP 2 mg.l^{-1} (0.027 mg/100 mg dried extract) and IAA 2 mg.l^{-1} + TDZ 2 mg.l^{-1} (0.030 mg/100 mg dried extract) treatments. With the addition of 2 mg.l^{-1} BAP, rutin concentration also increased in the proportion 1:4 compared to control.**

KEY WORDS: Flavonoids, Micropropagation, Plant growth regulator, Zingiberaceae.

*Author to whom correspondence should be addressed: *E-mail:* cris.pvictor@gmail.com