Chemical constituents of *Piper wallichii* and their antiausterity activity against the PANC-1 human pancreatic cancer cell line

*Chemical constituents of* *Piper wallichii* *and their antiausterity activity against the PANC-1 human pancreatic cancer cell line*

○Omar Ashraf1, Dibwe Dya Fita1, 孫恩嘉1, Tawila Ahmed1, Kim Min Jo1, Jitharak Paowattanasuk2, Champakul Pathidta2, Phrutivorapongkul Ampai2, Awale Suresh1

Ashraf M. Omar1, Dya Fita Dibwe1, Sijia Sun1, Ahmed Tawila1, Min Jo Kim1, Paowattanasuk Jitharak2, Pathidta Champakul2, Ampai Phrutivorapongkul2, Suresh Awale1

1. 富山大和漢研、2. チエンマイ大薬


*Piper wallichii* is a folk medicinal plant. Its stem has been used medicinally for treating rheumatoid arthritis and inflammation. Therefore, *Piper wallichii* stems, collected from the Chiang Mai Province of Thailand, have been selected to be the center of our present study aiming for the discovery of new antiausterity agents. In our present study, the ethanolic extract of *Piper wallichii* stems was subjected to a phytochemical investigation which led to the isolation of sixteen compounds including eleven amide alkaloids. All the isolated compounds were tested against PANC-1 human pancreatic cancer cell line by employing the antiausterity strategy.1-3 Some of the isolated compounds exhibited remarkable antiausterity activity against PANC-1 human pancreatic cancer cell line and induced a dose-dependent dramatic alteration of PANC-1 cell morphology within 24 h. In this presentation, the chemical constituents of *Piper wallichii* and their preferential cytotoxicity against PANC-1 cells are discussed.

**References**