

## Discovery of Diterpenoids from *Isodon Serra* Against Leukemia Cell

Kangrui Ji

School of Chemistry, University of Glasgow, University Avenue, Glasgow, Scotland, United Kingdom

Yan Liu

School of Pharmacy, Lanzhou University, Lanzhou, Gansu, People's Republic of China

### Abstract:

Diterpenoids occupy an important slot of the natural products diversity space with wide ranges of bioactivities and complex structures, providing potential applications for the development of therapeutics. In this study, we reported five diterpenes (+)-15-hydroxysalvinolone (1), 11,12,15-trihydroxy-8,11,13-abietatrien-7-one (2) graciliflorin F (3) gerardianin C (4) and graciliflorin A (5) isolated from *Isodon serra* (*I. serra*). Their structures were established by spectroscopic data analysis. All the compounds showed cytotoxicity against human immortalized cell line derived from a patient with chronic myelogenous leukemia (CML) K562 at 20  $\mu$ M, the inhibition for compound 1, 2, 3, 4 and 5 were 52.66, 61.49, 67.49, 62.54 and 63.79%.

### Keywords:

Isodon serra, diterpenes, leukemia, cytotoxicity.