

# Biologically Active Metabolites from the Basidiomycete *Limacella illinita* (Fr.) Murr.

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In the course of our search for new bioactive compounds from basidiomycetes, four new compounds were isolated from fermentations of *Limacella illinita*. Illinitone A (**1**) exhibited weak phytotoxic and moderate nematocidal activities against *Caenorhabditis elegans*, illinitone B (**2**) was moderately cytotoxic, while limacellone (**3**) exhibited weak cytotoxic and phytotoxic activities. The muurolane sesquiterpene **4a** was found to be inactive in the assays performed here. Limacellone (**3**), which appeared to be related with the illinitones **1** and **2**, has a new C<sub>15</sub> carbon skeleton. It is possible that compounds **1**, **2** and **3** are terpenoids/secoterpenoids, but their biosyntheses were not investigated.

*Key words:* *Limacella illinita*, Illinitones, Limacellone, 11-Desoxyeleganthol