

## O-32: ACULEATOLS A-D, NEW DIOXADISPIROKETAL COMPOUNDS FROM *AMOMUM ACULEATUM*: A CHALLENGE IN STEREOCHEMICAL DETERMINATION

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Recently, a group of compounds with a dioxadispiro skeleton has been isolated from *Amomum aculeatum* (Zingiberaceae).<sup>1,2</sup> The absolute configurations of aculeatins A and B (**1** and **2**) were established by enantioselective synthesis and NOE data of the obtained isomers.<sup>3</sup> In work carried out in our laboratory, four new dioxadispiro-type compounds, aculeatols A-D (**3** - **6**), were isolated following bioassay-guided isolation. The presence of an OH group at position 9 adds two new stereocenters at positions 8 and 9, which further complicates the stereochemical assignments. The structural and stereochemical determinations of these new compounds using 2D NMR techniques are presented. Compounds were tested against LNCaP, Lu1, and MCF-7 cells (**1** - **6**), and in an in vivo hollow fiber assay (**1**).

Supported by NCI/NIH grant U19-CA52956.

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