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<http://www.sciencedirect.com/science/journal/1871174X>

RESTUDY ON THE TYPE SPECIES OF *SINODIVERSOGRAPTUS* MU AND CHEN 1962

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Mu A.T. (Mu En-zhi) (1948) described a new species *Diversograptus lientanensis* from the Liantan Formation at its type locality (formerly Liantan, Kwangtung Province) and the specimens were recollected by Wang Xiao-feng (1978). In 1962, Mu En-zhi and Chen Xu published their *Sinodiversograptus multibrachiatus* from the same horizon (*Spirograptus turriculatus* Zone) of Nanjiang Formation at Qiaotin, Nanjiang, NW Sichuan. Loydell (1990) recognized that *Diversograptus lientanensis* Mu should be assigned to the genus *Sinodiversograptus* Mu and Chen, 1962, and as a senior synonym of *Sinodiversograptus multibrachiatus* Mu and Chen 1962. *S. lientanensis* is type species of this genus.

The Holotype and Paratype of *Sinodiversograptus lientanensis* (Mu) is re-illustrated here with a comparison to the related specimens from Nanjiang Formation. It suggested that *S. lientanensis* (Mu) includes three astogenetic stages, the monograptid, diversograptid and sinodiversograptid stage. The thecae of *S. lientanensis* (Mu) are approved as monograptid rather than streptograptid as suggested

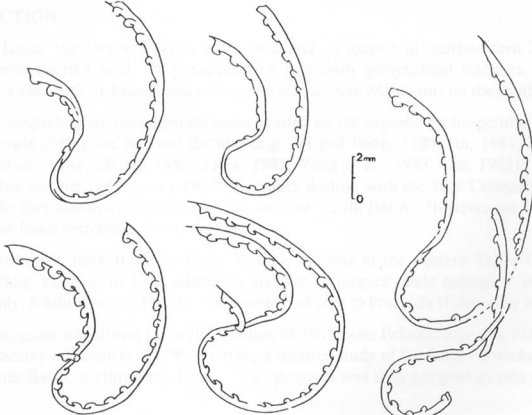


Fig. 1 Illustrations of *Sinodiversograptus lientaensis* (Mu)

a,d,e. specimens showing monograptid and diversograptid stages from *Spirograptus turriculatus* Zone of Qiaotin, Nanjiang, NW Sichuan (=Mu and Chen 1962 textfigs. 2b and 3b,a), field no. NIGP 11610, 11598, and 11602.
b,c. Paratype and Holotype from Liantan Formation of Liantan, Kwangtung, China (=Mu 1948, pl. 3, figs. 4-6), field no. AT 506, cat. no. NIGP 6956 and 6955.

by Mu (1948) and Mu and Chen (1962). *Sinodiversograptus* differs from *Diversograptus* in having high developed sicular and thecal cladia and free virgella (Mu and Chen 1962, figs. 7,8 and Fig. 1c in the present paper). *Diversograptus* includes many monograptid species and groups which are capable of producing pseudocladia and bipolarity of rhabdosome (Rickards 1973).

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The holotype and paratype of *Sinodiversograptus multibrachiatus* (Mu) are shown in Fig. 1. The holotype is a single specimen of the monograptid stage. The paratype is a single specimen of the monograptid stage. The holotype and paratype are shown in Fig. 1. The holotype is a single specimen of the monograptid stage. The paratype is a single specimen of the monograptid stage.

