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## The descendants *Clarkina* of the Eurasian stock (Changhsingian) and the forms of *Clarkina wangi* at Ganxi, Xiakou and Tianqiao sections, South China

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The descendants *Clarkina* of the Eurasian stock (Changhsingian) are composed of *C. changxingensis*, *C. changxingensis yini*, *C. deflecta*, *C. guangyuanensis*, *C. inflecta*, *C. iranica*, *C. liangshanensis*, *Clarkina longicuspadata*, *C. meishanensis meishanensis*, *C. meishanensis*, *C. orientalis*, *C. parasubcarinata*, *C. postwangi*, *C. prechangxingensis* and *C. predeflecta*, *C. preiranica* sp. nov., *C. subcarinata* (Sweet), and *C. wangi*. One new species of *C. preiranica* sp. nov. has been recognized. *Clarkina preiranica* sp. nov. is very important because it is found at the same level with *C. wangi*. The base of the Changhsingian can be defined within an evolutionary lineage from *C. longicuspadata* to *C. wangi* based on a refined taxonomic approach. There are three forms of *Clarkina wangi*: (1) Those forms characterized by drop-like, with a short and wide platform, usually no free blade, fused carina looks like a high wall and reaching beyond the posterior margin., (2) Those forms characterized by a free blade, platform lenticular in outline, fused carina looks like a high wall and reaching beyond the posterior margin., (3) Those forms with high and highly fused posterior carina, which does not reach beyond the posterior margin. The base of the Changhsingian has been suggested as the first appearance datum (FAD) of *Clarkina wangi* which characterized by drop-like, with a short and wide platform, usually no free blade; fused carina looks like a high wall and reaching beyond the posterior margin.

### Biography

Mutwakil Nafi Fadil Elmula has completed his MSc from University of Khartoum, Sudan and Ph.D. in Petroleum Geology diagenesis from China University of Geosciences and postdoctoral (Micropaleontology-conodont) studies from China University of Geosciences. He is Associate Professor at Dongola University, Faculty of Earth Sciences and Mining, Department of petroleum Geology, Sudan. He has published more than 20 papers in reputed journals and has been serving as an editorial board member of European Journal of Scientific Research. He is a member of SCS (Subcommission on Carboniferous Stratigraphy) and SPS (Subcommission on Permian Stratigraphy).

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