短 報

Restudy on Some "*Pseudoschwagerina*" in Japan

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Pseudoschwagerina is one of the Early Permian index fossils for wide correlation and its occurrences in Japan have been reported by YABE, OZAWA, IISAKA, FUJIMOTO, SEKI, HANZAWA, MINATO, TORIYAMA, and others. Its co-existence with some *Neoschwagerina*s was noted by IISAKA (1929~33) and TORIYAMA (1947); however during a restudy of IISAKA's collection, the author discovered that the *Pseudoschwagerina* specimens had been misidentified and were actually specimens of *Verbeekina*. Due to this discovery as shown in Table 1, a restudy of similar "exceptional" occurrences in Indochina and South China should be made.**

Table 1

Locality ¹⁾		IISAKA's determination	Present determination
1. A grey limestone, Loc. J9, Kanzaki sect., (Mt. Funabuse ²⁾), Gifu Pref. (1929 & '32) (8 slcs.)		<i>Schwagerina princeps</i> (EHRENBERG) (J9 2~4, 6~8) ³⁾	<i>Verbeekina</i> sp. (Text-fig.1)
		<i>Neoschwagerina simplex</i> OZAWA (J9 1, 3~5)	Intermediate between <i>N. simplex</i> and <i>N. craticulifera</i>
2. Toroku limestone near Toroku Mine, Miyazaki Pref. (1933) (8 slcs.)		<i>Palaeofusulina prisca</i> (EHRENBERG)	<i>Schwagerina</i> sp.
		<i>P.</i> sp.	Not recognized
		<i>Neoschwagerina</i> (<i>Cancellina</i>) sp. (Toroku C)	<i>Neoschwagerina craticulifera</i> (SCHWAGER)
		<i>Schwagerina</i> sp. cfr. <i>S. princeps</i> (E.) (Toroku A)	<i>Verbeekina verbeeki</i> (GEINITZ) (Text-fig.2)
3. Tosa-yama, Kochi Pref. (1933 ₁)	IISAKA (1933 a)	TORIYAMA (1947) ⁴⁾	Present determination
	<i>Schwagerina</i> spp.	<i>Pseudoschwagerina</i> sp. (Tosayamamura 2-1)	<i>Verbeekina katoi</i> ?
	<i>Neoschwagerina</i> (<i>Cancellina</i>) spp.	<i>Verbeekina katoi</i> TORIYAMA	<i>Verbeekina katoi</i>
	and other species.	<i>V.</i> sp.	<i>V.</i> sp.
		<i>Neoschwagerina iisakai</i> TORIYAMA	<i>Neoschwagerina iisakai</i>
		<i>Neoschwagerina staffelloides</i> T. and other species.	<i>Neoschwagerina staffelloides</i> and other species.

1) IISAKA reported the association of the two genera from these three localities.

2) The author examined more than 400 sections from the limestone of the district, but failed to find any *Pseudoschwagerina*.

3) Registered numbers of the slices are in italic letters and numbers.

4) TORIYAMA is now of opinion that *Pseudoschwagerina* sp. (Pl. XVI, figs. 3 & 4) was misidentified, and should be referred to *Verbeekina*. M. L. THOMPSON of Univ. of Wisconsin is also of the same opinion. (Personal information from Dr. R. TORIYAMA)

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References

- IISAKA, G.(1929): *Graduation Thesis* of Imp. Univ. of Tokyo; Other papers cited in TORIYAMA (1947).
TORIYAMA, R.(1947): *Japan. Journ. Geol. Geogr. Vol. XX. Nos.2~4.*
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Text-fig. 1 IISAKA'S "*Schwagerina princeps* (EHRENBERG)" (= *Verbeekina* sp.) from Mt. Funabuse. ($\times 10$) (J9 7)

Text-fig. 2 IISAKA'S "*Schwagerina* sp." (= *Verbeekina verbeeki* (GEINITZ)) from Toroku limestone. ($\times 10$) (Toroku 4)