

## The type species of *Cyrtosymbole* and the oldest (Famennian) cyrtosymboline trilobites

Raimund Feist and Rudy Lerosey-Aubril

*Acta Palaeontologica Polonica* 50 (3), 2005: 465-475

The hitherto poorly known type species of *Cyrtosymbole*, i.e., *Dechenella escoti*, is redescribed on the basis of an abundant new material recovered from the early Famennian Lower Griotte Limestone Formation at La Touri re, near Cabri res, southern France. It includes sclerites (hypostome, librigenae, thoracic segments and external surface of the pygidium) that previously were either unknown, or represented by poorly preserved and incomplete specimens, together with a full suite of post-protaspid growth stages. The latter has revealed that certain characters, in particular the preglabellar region and postocular facial sutures, show marked changes between the early and late holaspid stages. In the past, some species have been based on immature specimens; for example the lectotype of *C. escoti* is an early holaspis, and the characters that it displays have been regarded as diagnostic of the genus. For confident specific assignments in cyrtosymboline trilobites it is important, therefore, to have to hand sufficient material, including late holaspids. A revised diagnosis of *Cyrtosymbole* is given, and only those species that share diagnostic adult characters with *C. escoti* are assigned to it. Insights into early growth development exemplified by *C. escoti* and allies corroborate the attribution of the Cyrtosymbolinae to the Proetidae.

**Key words:** Trilobita, Proetidae, Cyrtosymbolinae, ontogeny, Devonian, Famennian.

Raimund Feist [[rfeist@isem.univ-montp2.fr](mailto:rfeist@isem.univ-montp2.fr)] and Rudy Lerosey-Aubril [[lerosey@isem.univ-montp2.fr](mailto:lerosey@isem.univ-montp2.fr)], Laboratoire de Pal ontologie, Pal obiologie et Phylog nie, Institut des Sciences de l'Evolution de Montpellier, 34095 Montpellier Cedex 05, France.

This is an open-access article distributed under the terms of the Creative Commons Attribution License (for details please see [creativecommons.org](https://creativecommons.org)), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

 [Full text \(481.2 kB\)](#)