

Diatom 30: 157-163

*Actinocyclus hiramakiensis*, a new freshwater diatom from Early Miocene sediment, Gifu Prefecture, Japan

Hiroyuki TANAKA and Tamotsu NAGUMO

#### **Abstract**

*Actinocyclus hiramakiensis* sp. nov. is described from Early Miocene freshwater sediment of the Hiramaki Formation located in southern Gifu Prefecture, Japan. The species has a round valve face with concentric undulation, radial areola rows usually irregular or loosely packed with areolae in valve center, areolae with external and internal vela, a pseudonodulus located on the valve face/mantle boundary as well as some stalked rimoportulae with long tubes and labia running parallel to the tube axes. The new species has characteristics similar to those of the genus *Actinocyclus*, but in other ways it differs from existing *Actinocyclus* species. Light and scanning electronic microscope photographs are provided along with the description.

**Key index words:** *Actinocyclus hiramakiensis*, Early Miocene, freshwater diatom, Hiramaki Formation, Japan.