

## **Facies and the Platform Type Limestones of the Ichinotani Formation in Fukuji Area, Takayama City, Gifu Prefecture**

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This subject is targeted for consideration of the formation environment of the limestone in the Ichinotani Formation. Devonian, Carboniferous and Permian limestones are distributed over the Hida Gaien belt. There is the Fukuji Formation, the Ichinotani Formation and the Mizuyagatani Formation from a lower level in the Fukuji area. This limestone is platform type for that reason a lamina develops in them. A lot of fossils such as a coral and *Fusulina* produce it from there and biostratigraphy was divided.

The Ichinotani Formation is distributed over Ichinotani valley and Mizuboradani valley, and consists mostly of gray limestone. Apart from that, a black limestone, black shale, red limestone and red shale occur in this formation. A green-colored Tuff is observed under a black limestone. A mudstone and a limestone are alternately stacked near the red limestone. There is a conglomerate in red limestone. Furthermore, from a classification of Flugel (2010), these limestones understand a thing consisting of limemudstone, wackstone, packstone and calciludite. About the Ichiontani Formation, the author collects a rock sample from the range of layer thickness 300m, make a thin sample from them and observe it. This formation is divided into six of Zone of *Eostaffella*, Zone of *Profusulinella*, Lower Zone of *Fusulinella-Fusulina*, Zone of *Beedeina*, Upper Zone of *Fusulinella-Fusulina* and Zone of *Triticites* by a *fusulina* (Niikawa, 1980). The author divided each zone into four groups from a characteristic such as facies and biofacies. For example, There is a special facies such as a black limestone and a red limestone, poor in a large fossil such as a coral, An alga excels very much. The author considers the environment with the model whom Flugel (2010) gathered up from those group characteristics. It was assumed that the model that Machel & Hunter advocated was most suitable in the results.

### **References**

- Flugel, E., 2010, *Microfacies of carbonate rocks*, Springer, Heidelberg, 984p.  
Niikawa, I, 1980, *Geology and Biostratigraphy of the Fukuji district, Gifu Prefecture, Central Japan*. *Journal of Geological Society of Japan*, **86**, 25-36.