

**OR-46****The Morphology of *Fagopyrum* Embryo**

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This presentation describes the microscopic observation of a pseudo cereal or buckwheat (*Fagopyrum* species, family: Polygonaceae). The structure of the seed starchy endosperm cells was investigated by using Scanning Electron Microscopy (SEM). In this study, the morphological differences were observed between normal and tartary buckwheat (*F. esculentum* and *F. tataricum*, respectively). From the photomicrographs, the common buckwheat endosperm contains small polygonal starch granules, ranging in size from 7 to 9  $\mu\text{m}$ . Meanwhile, the seed size from tartary buckwheat was also recorded. During this experiment, a publication provided microscopical evidences of the *Fagopyrum* seed. It is found that the characteristics of both samples were equivalent with the report. Following the computer aided three-dimensional reconstructions of the buckwheat embryo, it is concluded that the shape and size of the embryo in buckwheat seeds are presently resolved.

**Keywords:** Polygonaceae, *Fagopyrum*, morphology, seed.

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