

Mendel's Two Genetics Papers Viewed from the Standpoint of Evolution*

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Mendel published only two genetics papers, in 1866 and in 1870 respectively. One is concerned with *Pisum* and the other with *Hieracium*. The first paper is well-known and is the source of the so-called Mendel's laws of heredity on which the modern genetics is based and developed. The second is a short interim report and seems to have been regarded as a less important work.

Now, I would like to talk about my views on the characteristics of these two papers and also on Mendel's idea inherent in or attitude taken in these studies.

Of the various fields of the highly progressed genetics in recent years, the relation of heredity and evolution is one. I would like to consider how Mendel thought of this theme, how he performed his experiments, how he evaluated his own studies, and what was his intention in writing and publishing his papers, etc.

The paper on peas is written in German and is 45 pages long without any illustrations. It is divided into 11 chapters beginning with "Introductory remarks" and ending with "Concluding remarks" (Table 1).

Table 1. Contents of Mendel's paper on peas

	page
1. Intoductory remarks (Einleitende Bemerkungen)	3-4
2. Selection of the experimental plant (Auswahl der Versuchspflanzen)	5-7
3. Division and arrangement of the experiments	

* A part of the memorial lecture given in Japanese at the centennial anniversary of the discovery of Mendel's laws, held in Japan in 1965.

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