

# Diversity in the *Arisaema serratum* group.

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## Abstract:

The morphological diversity in the *Arisaema serratum* group and its satellite groups, which are generally characterized by the long pseudostem and pedate leaves with well developed rachises between leaflets, is summarized. Based on a comparison of local populations throughout the distribution ranges, an attempt is made to recognize morphological units that are presumed to have a genetic basis, although morphological intermediates are sometimes found.

The *Arisaema serratum* group is primarily divided into three subgroups.

**Subgroup 1** is characterized by late flowering, the spathe opening much later than the leaves and the spathe blade covered with fine distinct raised lines on the ventral side and includes morphological units previously named *A. serratum*, *A. longilaminum* (*A. sinanoense*), *A. peninsulae*, *A. planilaminum*, *A. solenochlamys*, *A. takedae* (*A. izuense*, *A. sowoense*) and several additional unnamed units.

**Subgroup 2** is characterized by early flowering, the spathe opening much earlier than the leaves and the spathe blade smooth on the ventral side and includes *A. japonicum* (*A. takeshimense*) and *A. mayebarae*.

**Subgroup 3** is intermediate between the two but the spathe blade is basically green and frequently has small trichomes on the ventral side and margins and includes *A. angustatum* and several unnamed units.

- From Biological Abstract.

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