

Breeding of *Nephrolepis falcata* ‘Taitung No.1’

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Abstract

Nephrolepis has special pinnate compound leaves, good weather resistance and environmental adaptability. The self-named new variety of *Nephrolepis falcata* ‘Taitung No. 1’ was selected from the commercial variety *Nephrolepis falcata* ‘Furcans’ by bud mutation in 2013. On May 11, 2018, scholars and experts were invited to review and pass the self-named.

Plant form is Spreading, Plant height is low. Shape of pinnule base is acute, interior angle Narrow(45°), depth of pinnule lobe is deep. Pinnule length (lateral pinnule) is medium, width is narrow. The color of surface of young frond, mature frond upperside and mature frond underside are green(RHS146C). Number of fronds are many, number of pinnules are medium. Stipe length is short and color is red brown(RHS166A). Strength of pinnule articulation is powerful, spore and present of indusium is absent.

Nephrolepis falcata ‘Taitung No. 1’ could be produced year-round, has few pests and diseases, has a unique and beautiful appearance, is suitable for indoor landscaping and combined potted applications, and benefits the development of the fern industry.

Keywords: *Nephrolepis falcata*, Breeding, DUS test, Bud mutation.

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