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Genetic diversity of chili pepper (*Capsicum* spp.) germplasm resources in Vietnam

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Abstract

Chili pepper (*Capsicum annum*) is origin of subtropical region, and has been spread all over the world. It is increasing the production and consumption in recent year. Chili peppers are readily incorporated into local South Asian cuisines perhaps because people are already familiar with pungent and spicy flavors. Chili peppers, despite their fiery “hotness”, are one of very popular spices known for their medicinal and health benefiting properties. Especially in South East Asia, they grow up so many cultivars of them recently, so it is so important crop world wide. In South East Asia, there are some articles about chili pepper in Thailand and Indonesia, but in Vietnam there is not so much information about chili pepper. In this paper, we analyzed genetic diversity in Vietnamese Chili pepper through the survey of local chili pepper. As a result, we got 38 kinds of chili fruits, 26 kinds of leaves and some information from farmers all in Vietnam. And I made the phylogenetic tree by SSR with 10 DNA markers. Finally we found the genetic similarities by regions

Keywords: chili pepper, Vietnam, local, mapping, SSR, diversity

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