Molecular Evidence for Intersubgeneric F1 Hybrid between Glycine max x G. tomentella by RAPD analysis (C01-kim030926-Poster)

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Abstract:

The objective of this study was to describe molecular evidence for intersubgeneric F1 hybrid between Glycine max cv. 'Bamkong' x G. tomentella (2n=38) by RAPD analysis. One hundred primers were used. Sixty-five primers generated well resolved bands, but 35 primers generated not well resolved bands or not worked at all. Number of polymorphic primers was 65, which accounts for 100 % of good working primers. The total number of bands was 431. Three hundred sixty- three bands that account for 84.2 % of total number of bands were polymorphic, and 68 bands (15.8 %) were monomorphic. The results of this study showed extremely high polymorphisms when comparing with previous results from inter- and intraspecific crosses in soybean and other crops. Sixty-two primers showed the bands in F1 hybrid had both bands from G. max cv. 'Baemkong' and G. tomentella, which suggested that this is true F1 hybrid. Currently, we are investigating the cytological aspect on chromosome behavior and RAPD analysis with more primers to obtain detailed information in F1 hybrid from intersubgeneric cross between G. max cv. 'Baemkong' and G. tomentella.

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