Molecular Characterization of Five Medicinally Important Species of *Typhonium* (Araceae) through Random Amplified Polymorphic DNA (RAPD)

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Z. Naturforsch. \textbf{60c}, 600–604 (2005); received January 7/February 16, 2005

The interrelationship of five medicinally important species of *Typhonium* (Araceae) including *T. venosum*, which was previously placed under the genus *Sauromatum*, was inferred by analysis of random amplified polymorphic DNA (RAPD). DNA from pooled leaf samples was isolated and RAPD analysis was performed using 20 decamer oligonucleotide primers. Out of a total of 245 bands amplified, 12 were found to be monomorphic while 233 bands were polymorphic including 86 species-specific bands. The genetic similarities were analyzed from the dendrogram constructed by the pooled RAPD data using a similarity index. The dendrogram showed two distinct clades, one containing *T. roxburghii*, *T. trilobatum* and *T. venosum* and the other containing the remainder two species, i.e. *T. diversifolium* and *T. flagelliforme*. Both the clusters shared a common node approx. at 23.7% level of similarity. The maximum similarity of 31.2% was observed between *T. venosum* and *T. trilobatum*. In view of its close genetic similarity with other members of *Typhonium*, transfer of *Sauromatum venosum* to the genus *Typhonium* and merger of the two genera was supported.

\textbf{Key words}: Molecular Taxonomy, Genomic Relationship, RAPD, *Typhonium*