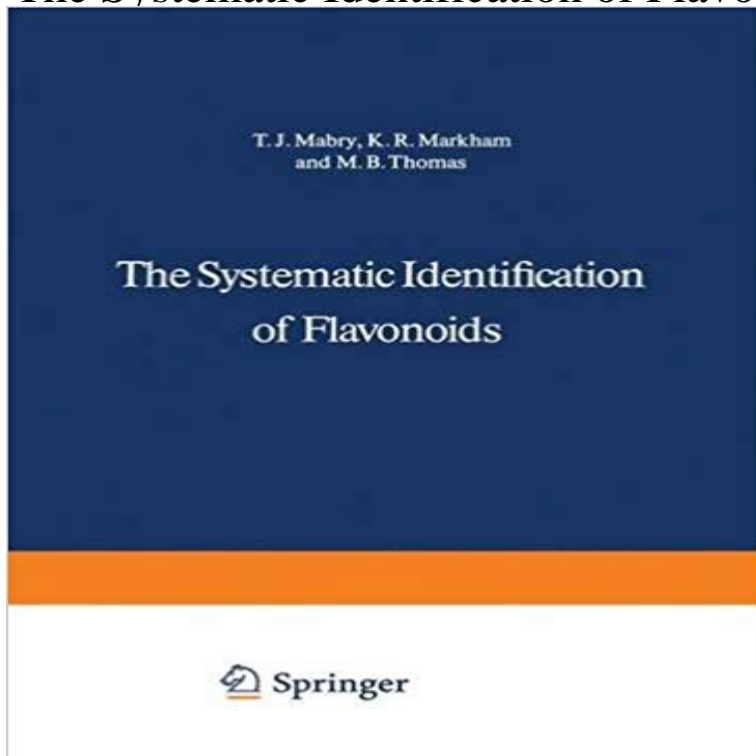


The Systematic Identification of Flavonoids



About 1958, the late Professor R. E. ALSTON and Professor B. L. TURNER, both of the Department of Botany, The University of Texas at Austin, initiated a general systematic investigation of the legume genus *Baptisia*. They found that flavonoid patterns, as revealed by two-dimensional paper chromatography, were valid criteria for the recognition of the *Baptisia* species and for the documentation of their numerous natural hybrids. Later, they showed that the flavonoid chemistry could be used for the analysis of gene flow among populations. At that time no attempt was made to even partially identify the flavonoids which were detected chromatographically. Nevertheless, it soon became apparent that the full value of the chemical data for systematic purposes required knowledge of the structures of the flavonoids. In 1962, one of us (T.J.M.) in collaboration with Drs. ALSTON and TURNER began the chemical analysis of the more than 60 flavonoids which had been chromatographically detected in the 16 *Baptisia* species. In the intervening years, a number of chemists and botanists, including Drs. K. BAETCKE, B. BREHM, M. CRANMER, D. HORNE, J. KAGAN, B. KROSCHEWSKY, J. MCCLURE, H. ROSLER, and J. WALLACE, participated in the development of techniques and procedures for the rapid identification of known flavonoids and in the structure determination of new flavonoids. In addition, the flavonoid chemistry of many plants other than *Baptisia* was investigated.

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