

S32-3 Total synthesis of hybrid-type polyphenol

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Since 2005, when I first came to the University of Shizuoka, my research group has focused on the synthetic investigation of the functional food catechin and flavone that are derived from green tea and oranges, which are two well-known food specialties of Shizuoka Prefecture. During the course of our investigation of polyphenol synthesis, we tuned our attention to hybrid polyphenols. Hybrid polyphenols are well-known members of the family of polyphenols, which possessed the a reactive electron -rich aromatic ring, the existence of several hybrid type polyphenols has been known. As these compounds possessed have the interesting biological activity activities, which they expected may be useful as a leads for the drug development,. Therefore, it is important to ensure enough a sufficient supply of them by developing an efficient synthetic method for their synthesis has been desired in strongly. However, the efficient synthesis of hybrid polyphenols required novel synthetic methods. In this lecture, the author I would will show describe you the original synthetic methods that we developed for the total synthesis of princepin (**1**) and sophoraflavanone H (**2**), which are based on our original synthetic method.