

編號: (請勿填寫)

Developing Microwave Synthesis of Potential Anticancer Drugs of UK-1 Analogs in a Short-Route and Green Pathway

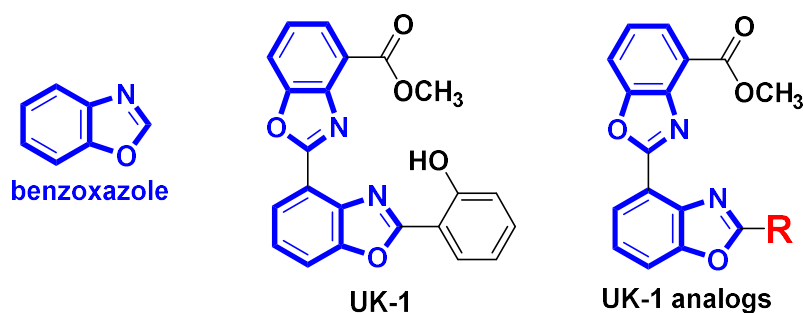
Hsingting Yu (余幸庭), Hao Cheng (程皓) and Yungtzung Huang (黃榮宗)*

*Department of Applied Chemistry, National University of Kaohsiung, Taiwan, ROC

E-mail: ythuang@nuk.edu.tw

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UK-1, isolated from *Streptomyces* sp. 517-02, contains two five-membered N,O-heteroatom rings of benzoxazole and shows cytotoxic activity against various solid tumors.¹



Unlike other reported synthetic pathways using various reactive chemical reagents and requiring multiple steps,² we develop a highly efficient route for the synthesis of UK-1 analogs by microwave reactions. Not only shorter steps are needed, but also less chemical reagents are consumed or used. Moreover, less toxic chemical reagents are utilized and, therefore, their corresponding hazardous chemical waste are avoided. This matches the goal of Green Chemistry.³ Detail information will be discussed in the meeting.

References:

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