

Digestive Diseases 2020: Total Synthesis Based on the Natural Furanonaphthoquinone Scaffold and Their Biological Activity Evaluation: Chik Wai I - Hong Kong Baptist University

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Abstract

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Furanonaphthoquinones (FNQs) are a group of small molecules that have been found to exhibit a variety of biological activities, including antimicrobial and anticancer activities. Their natural occurrence includes plants of the Bignoniaceae family. Bioactivity-guided fractionation and isolation of *Radermachera boniana* Dop led to the separation and identification of napabucasin, which is a cytotoxic FNQ that can selectively target cancer stemness and metastasis. The study of napabucasin has