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Quinolines: Microwave-assisted Synthesis and their Antifungal, Anticancer and Radical Scavenger Properties

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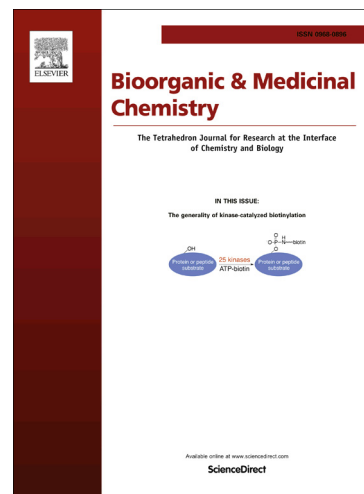
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ABSTRACT

An efficient method for the synthesis of quinolines using microwave irradiation was developed providing 28 quinolines with good yields. The reaction procedures are environmentally friendly, convenient, mild and of easy work-up. Quinolines were evaluated for their antifungal, anticancer and antioxidant properties and exhibited high activities in all tests performed.

1. Introduction

The quinolic core is repeatedly found in various natural and synthetic products, including several important clinically used drugs and pharmaceutical candidates.¹ Some 2,4-disubstituted

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