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ABSTRACT BOOK

International Conference on Recent Advances in Chemical and Biological Sciences

ICRACBS-2022

25-26 September, 2022

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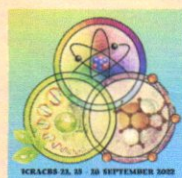


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Organises

Two Days International Virtual Conference

**Recent Advances in Chemical and
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ICRACBS-2022, 25 - 26 SEPTEMBER, 2022

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"International Virtual Conference on Recent Advances in Chemical and Biological Sciences" ICRACBS-2022

Certificate

This is to certify that Dr. /Mr. /Ms. Vijay B. Gangan. of

Reena Mehta College, Bhayandur has Participated / Presented paper
entitled Synthesis & antimicrobial activity of Novel
Benzofuran derivatives

in the Two days

International Conference ICRACBS-2022 on 25th and 26th September 2022 organized by IQAC,
Department of Chemistry and Biological Sciences.

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Synthesis and Antimicrobial Activity of Novel Benzofuran Derivatives

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Abstract: Dehydrodiisoeugenol constitute a new group of antimitotic and potential anticancer agents that inhibit tubulin polymerization. It is a benzofuranoid type neolignan have been synthesized¹ and diversified to its respective ester / hybrid molecules²⁻⁵ (DCC / DMAP / Pyridine / DCM) using conventional methods and characterized by ¹H NMR, elemental analysis and mass spectral data. These synthesized compounds were new as confirmed by Scifinder search and screened for their potential antibacterial activity against Gram positive and Gram negative cultures. Few of them possess promising antimicrobial activity⁶.

Keywords: Dehydrodiisoeugenol, Iodobenzene diacetate, ¹H NMR, IR, TOF MS ES, Elemental analysis, Gram positive and Gram negative cultures, antimicrobial.

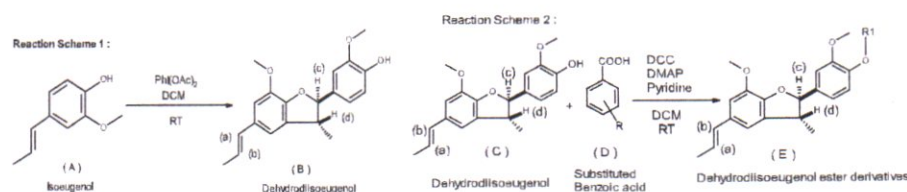


Table 1: Dehydrodiisoeugenol ester / hybrid derivatives.

Compound No.	R1
1	Benzoyl
2	4-Nitro benzoyl
3	3,4-Dimethoxy benzoyl
4	3,4,5-Trimethoxy benzoyl
5	Phenyl acetyl
6	4-Chloro phenyl acetyl
7	4-Nitro phenyl acetyl
8	4-Fluoro isocyanate
9	Furfuroyl



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