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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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Commerce & Mgf. Studies
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Certificate

This is to certify that Dr. /Mr. /Ms. Mrs. Priyanka A. Save of Reena Mehta College, Bhayandar has Participated / Presented paper entitled Methyl paraben derivatives as future potential drug 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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Methyl Paraben Derivatives As Future Potential Drug

Priyanka A. Save[a], Vijay D. Gangan[a*], Om Yadav[a] and Uttam M. Yadav[b]

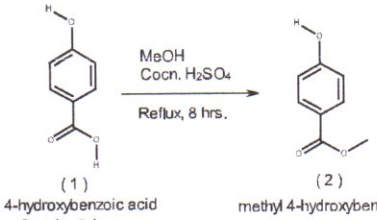
a. Department of Chemistry, Reena Mehta College of Arts, Commerce, Science and Management studies, Bhayandar (W), Maharashtra - 401101.
b. Department of Chemistry, Bhavan's College of Arts, Commerce and Science, Andheri (W), Mumbai - 400058.

Email: vijaygangan67@gmail.com

Abstract: Parabens are class of chemicals widely used as preservatives in the cosmetic and pharmaceutical industries[1-5]. They are effective preservatives in many types of formulas. These compounds and their salts are used primarily for their bacterial and fungicidal properties[6]. They are also used as food additives. Their analogues *viz.* ethers and hybrid / fused molecules also possess various biological activities which prompted us to synthesize few more analogues for their future application as bioactive molecules. All the synthesized compounds were characterized by ^{1}HNMR and mass spectral data and screened for their potential antibacterial activity against Gram + ve and Gram – ve cultures. Few of them are showing promising antibacterial activity.

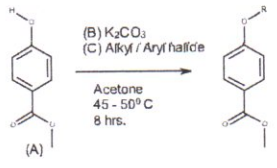
Keywords: Methyl paraben, antibacterial, fungicidal, ^{1}HNMR, hybrid molecules, Gram +ve, Gram –ve.

Reaction Scheme :



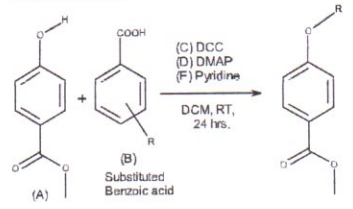
(1) 4-hydroxybenzoic acid — (2) methyl 4-hydroxybenzoate

Reaction Scheme :



(A) Methyl 4-hydroxybenzoate — Methyl paraben ether derivatives

Reaction Scheme :



(A) Methyl 4-hydroxybenzoate + (B) Substituted Benzoic acid → Methyl paraben hybrid derivatives

Compound No.	R
3	Decyl
4	4-Amino benzoyl
5	3-Amino benzoyl
6	4-Nitro benzoyl
7	3-Nitro benzoyl