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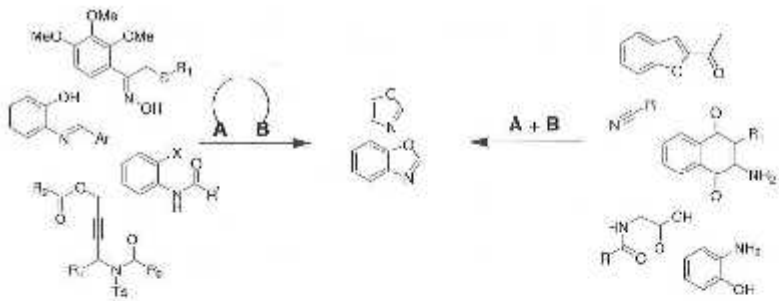
Advances in Contemporary Research

833 **Advanced synthetic and pharmacological aspects of 1,3-oxazoles and benzoxazoles**

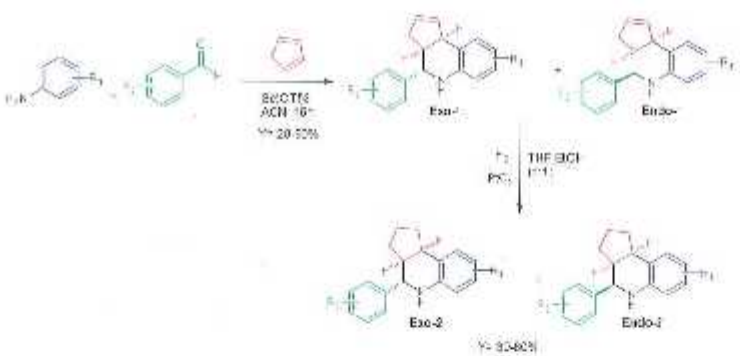


Ambreen Ghani*, Erum A Hussain, Zubi Sadiq & Narjis Naz

Department of Chemistry, Lahore College for Women University, Lahore 54000, Pakistan

Papers

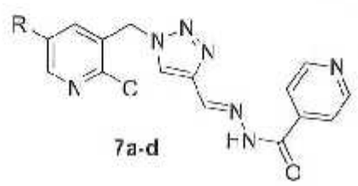
854 **Efficient three-component synthesis of diversely substituted tetrahydro-1*H*-cyclopenta[*c*]quinolines**



Patricia Niño, Marta Caba, Nuria Aguilar, Emma Terricabras, Fernando Albericio & Joan-Carles Fernàndez*

Almirall-Barcelona Science Park Unit, Barcelona Science Park, Baldiri i Reixac 10-12, 08028-Barcelona, Spain

882 **Synthesis and anti-mycobacterial activity of 1*H*-1,2,3-triazolylisonicotinohydrazides** 1*H*-1,2,3-Triazolylisonicotinohydrazides have been prepared by the condensation of 1*H*-1,2,3-triazole-4-carbaldehydes with isonicotinylhydrazine in good yields. Some of the compounds display good anti-mycobacterial activity and these derivatives have been chosen for their cytotoxicity.



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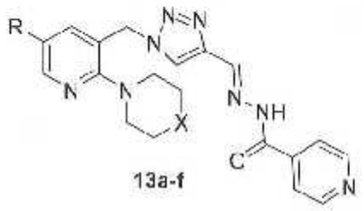

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Ch Dayakar, P Suman, K Rajkumar, P Yogeeswari, D Sriram & B China Raju*

Natural Products Chemistry Division, CSIR-Indian Institute of Chemical Technology, Hyderabad 500 007, India

888 **Transformation of androstenedione into 17α-hydroxy-16β-methylpregn-4-ene-3,20-dione** An efficient synthesis of 17α-hydroxy-16β-methylpregn-4-ene-3,20-dione from androstenedione has been studied. Structure of the product and its intermediates has been examined by spectral methods such as IR, MS, 1D and 2D NMR.

Luu D Huy*, N T Diep, H P Thu, N D Tuyen, L T K Chung, T K Vu, N H Nam & Tatiana S Savinova

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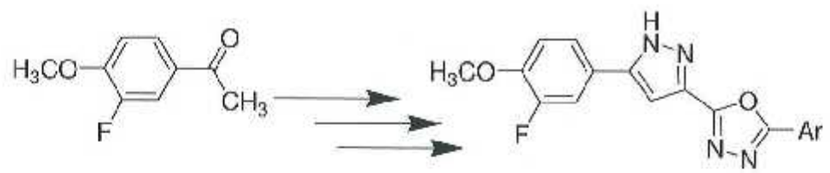
892 **Synthesis and biological activity of novel derivatives of 2-(5-(3-fluoro-4-methoxy phenyl)-1*H*-pyrazol-3-yl)-5-aryl-1,3,4-oxadiazole** Synthesis of eleven pyrazole aryl-oxadiazoles has been carried out and *in vitro* antimicrobial activity and MIC have been studied.



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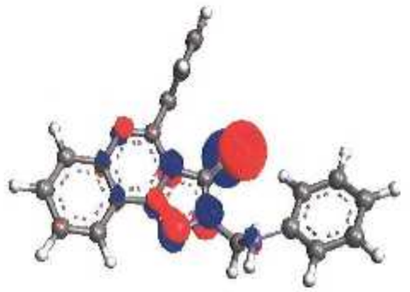
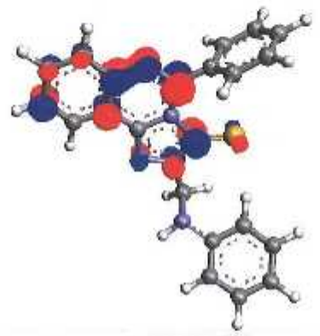
898 **Synthesis, biological evaluation and QSAR studies of a novel series of annelated triazolo[4,3-*c*]quinazolines** A series of novel annelated triazolo[4,3-*c*]quinazolines **6a-m** have been prepared, characterized and evaluated for their biological activity. The structural character-istics governing antimicrobial activity of these quina-zolines has been studied using QSAR.



HOMO (**6a**)



LUMO (**6a**)

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