Available online at **www.joac.info**

ISSN: 2278-1862

Journal of Applicable Chemistry

2016, 5 (1): 122-127

(International Peer Reviewed Journal)

Synthesis, Characterization and Biological Activity of Novel Quinazolinone Compounds

Pankaj k. Singh and Rakesh K. Paliwal*

*Department of chemistry, Narain Degree College, Shikohabad-205135, Uttar Pradesh, **INDIA**

Email: rkpaliwal.skb@gmail.com

Accepted on 2nd December 2015

ABSTRACT

A series of novel quinazolinone compounds were synthesized by two steps. In step 1, various 2-substituted-3, 1-benzoxazin-4-ones are prepared by the reaction of anthranilic acid and acetic anhydride/benzoyl chloride and propanoic anhydride. In step II, 2-substituted-3, 1-benzoxazin-4-one which were prepared in step I, were condensed with different substituted aromatic amine to produce various quinazolinone compounds. The resulting quinazoline-4(3H)-one compounds were characterized by ^{1}H *NMR spectra & mass spectral analysis. Synthesized novel quinazolinone compounds evaluated for their biological activity, although the synthesized compound were prepared for targeting antiviral & anticancer activity but synthesized compound so far has been tested for antibacterial &antifungal activity. Among synthesized compound exhibited good antibacterial & antifungal activity.*

Keywords: Anthranilic acid, substituted aromatic amine, quinazolinone-4(3H)-one, antimicrobial activity.