Available online at www.joac.info

ISSN: 2278-1862

Journal of Applicable Chemistry

2014, 3 (6): 2318-2324

(International Peer Reviewed Journal)

In-Vitro Antimicrobial and Antioxidant Screening of Medicinally Used *Sarcococca saligna* Against Human Pathogens

Ashok Kumar*[1], Satish C. Sati[1], Manisha D. Sati[1], Sudhir Kumar[1], Rajendra Singh[1], Nidhi Srivastva[2] and Abhishek Kumar[3]

1. Department of Chemistry, HNB Garhwal University Srinagar, 246174, Uttrakhand, **INDIA**
2. Department of Microbiology, HNB Garhwal University Srinagar, 246174 Uttrakhand, **INDIA**
3. Centre of Advanced Study in Botany, Banaras Hindu University, Varanasi 221 005, Uttar Pradesh, **INDIA**

Email: ashuhinwar@gmail.com

Accepted on 1st October 2014

ABSTRACT

The antibacterial, antifungal and antioxidant study is done for Sarcococca saligna crude extract (Ss. Cr.) and its various fractions. The crude ethanolic extract and various fractions showed good, moderate and significant antibacterial activity against Proteus vulgaris, Escherichia coli, and Staphylococcus aureus respectively. The crude ethanolic extract and rest of the fractions were found inactive against Pseudomonas aeruginosa. Antifungal activity is significant for Ss. Cr. Extract and methanolic extract while poor for Ethyl acetate and petroleum ether fractions. Antioxidant activity was shown by petroleum ether, crude ethanolic extract, ethyl acetate and methanolic fractions. Crude extract and methanolic fractions were found strong DPPH scavenging activity.

Keywords: *S. saligna*, *Buxaceae*, antibacterial, antioxidant, Antifungal activity.