

## Antifungal Activity of *Commiphora myrrha* L. against Some Air Fungi

**Authors :** Ahmed E. Al-Sabri, Mohamed A. Moslem, Sarfaraz Hadi

**Abstract :** To avoid the harmful effects of the chemical fungicides on the human and minimize the environmental pollution, an alternative eco-friendly control strategies should be developed. The extract of *Commiphora myrrha* L. was tested against twenty fungal genera isolated from the indoor air collected from different rooms in King Saud University, Kingdom of Saudi Arabia. Disc diffusion test was modified for use in this study and the collected data was statistically analyzed. Variable antifungal efficacy of different myrrh extract was recorded against the investigated fungal genera. The efficacy of the extract was increased as the concentration increased. The highest growth inhibition (74.6%) was against *Acremonium strictum* followed by *Trichoderma psuedokoningii* (70.6%). On contrast, the lowest efficacy (12.7%) was against *Ulocladium consortiale*. It could be concluded that myrrh extract is promised as a source of substances from which of safer and eco-friendly could be used as antimicrobial agents against a number of pathogenic fungi.

**Keywords :** antifungal, myrrh, antimicrobial, medicinal plant

**Conference Title :** ICEBB 2015 : International Conference on Emerging Biosensors and Biotechnology

**Conference Location :** Montreal, Canada

**Conference Dates :** May 11-12, 2015