

# 5<sup>th</sup> Annual European Pharma Congress

July 18-20, 2016 Berlin, Germany

## Antioxidant and interesting potent anti-microbial activity of *Nerium oleander* flowers extracts region Blida

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A phytochemical and biological study Oleander - *Nerium oleander* (Apocynaceae) in the region of Larbaa was carried out on a batch harvested in May. The histological analysis of leaf showed the presence of crypts with stomata and trichomes, starch granules, microrosette crystals of calcium oxalate, very thick cuticle and characteristics of plants adapted to drought. The antioxidant power of flavonoid fraction was evaluated by the method diphenylpicrylhydrazyl (DPPH), the ability of extracts to scavenge this radical is measured by spectrophotometry. The results show a percentage of antioxidant activity: - 45% for leaf extracts of the plant -73% for flower extracts. The antibacterial effect was produced by the method of Mueller Hinton agar diffusion (IPA). The antimicrobial potency is estimated by measuring the diameter of inhibition zones of the tested strains. We showed that *Nerium oleander* possesses an effective antioxidant activity particularly high for flowers extracts. Flowers methanol extracts showed interesting potent antimicrobial activity against *S. aureus* MRSA 43300 (Resistant strain on standard antibiotics), *E. coli*, *P. aeruginosa*. These findings are useful for further research.

### Biography

K Arar is a Pharmacist in 2007 faculty of Medicine Batna. He has obtained diploma of medical specialized study (DEMS) in pharmaceutical chemistry in 2010. At present, he is the hospital-university Assistant Professor at faculty of Medicine and consultant at Frantz fanon hospital, Blida.

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