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Effect of provenance on the chemical quality and bioactivity of essential oil of *Laurus nobilis* in Morocco

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The aim of this work is to study the effect of provenance on both chemical profile and antimicrobial activity of essential oil (EO) of the aerial parts of *Laurus nobilis*. The plant was harvested from two different forests in Morocco; Moulay Abdeslam (North) and Beni Mellal (Middle Atlas). The best EO yields of the *Laurus nobilis* was resulted from Beni Mellal forest. The analysis of chemical composition was made by GC and GC-MS which identified the major compounds; Sabinene, α -Terpinene, 1,8-Cineole, Eugenol, Linalool and α -Pinene. The antimicrobial activity has been made in regards of four wood rot fungi, three molds and four bacterial strains. The EO extract of *Laurus* from the provenance Beni Mellal forest was the most efficient against all the studied microorganisms.

Biography

Hanaa Labiad is currently a PhD student at Ibn Tofail University, Morocco.

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