

## Review of the Pharmacological and Toxicological Effects of *Salvia leriifolia*

\*<sup>1</sup>Hossein Hosseinzadeh, <sup>2</sup>Hamid Reza Sadeghnia, <sup>3</sup>Mohsen Imenshahidi, <sup>4</sup>Bibi Sedigheh Fazly Bazzaz

### Abstract

*Salvia leriifolia* Benth. (vernacular names such as Nuruozak and Jobleh) is a perennial herbaceous plant that grows exclusively in south and tropical regions of Khorasan and Semnan provinces, I. R. Iran. Unlike other species of *Salvia* genus, the chemical constituents of *S. leriifolia* are not well recognized. The stem oil of the plant consisted mainly both monoterpenes and sesquiterpenes, while in leaf and flower oils monoterpenes predominated over sesquiterpenes. In recent years, the different properties of this plant such as the attenuation of morphine dependence, hypoglycemic, antinociceptive and antiinflammatory, antioxidant, anti-ischemia, anticonvulsant, antiulcer effects, antibacterial activities and antimutagenic effects were evaluated. These effects introduce this plant for more toxicological and clinical trials evaluations as a herbal medicine.

**Keywords:** *Salvia leriifolia*; Nuruozak, Lamiaceae, Herbal medicine

---

1-Department of Pharmacodynamics and Toxicology, Pharmaceutical Research Center and School of Pharmacy, Mashhad University of Medical Sciences, Mashhad, Iran

\* Corresponding author: Tel: +98-511-8823252; Fax: +98-511-8823251; email: hosseinzadehh@mums.ac.ir

2-Department of Pharmacology, Faculty of Medicine, Mashhad University of Medical Sciences, Mashhad, Iran

3-Department of Pharmacodynamics and Toxicology, School of Pharmacy, Mashhad University of Medical Sciences, Mashhad, Iran

4-Department of Pharmaceutical Microbiology, Biotechnology Research Center and School of Pharmacy, Mashhad University of Medical Sciences, Mashhad, Iran