

International scientific and practical
online conference

INTEGRATION INTO THE WORLD AND CONNECTION OF SCIENCES

Международная научно
практическая online-конференция

ИНТЕГРАЦИЯ В МИР И СВЯЗЬ НАУК

Beynəlxalq elmi və praktik
internet konfransı

DÜNYAYA İNTEQRASIYA VƏ ELMLƏR ARASI ƏLAQƏ

**OCTOBER
2020**

BAKU, AZERBAIJAN REPUBLIC



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Hörmətli həmkarlar!

Sizi 30 sentyabrda keçiriləcək “Dünyaya inteqrasiya və elmlər arası əlaqə” Azərbaycan-2020 Beynəlxalq elmi praktik konfransda iştirak etməyə dəvət edirik. Mövcud vəziyyətlə əlaqədar konfrans onlayn qaydada (vidiokonfrans halında) keçiriləcəkdir. Konfransda professor və elmlər namizədləri, elmi işçilər, doktorant və magistrılar iştirak edə bilər. Tezis materialları məlumat məktubunda qeyd olunduğu qaydalara uyğun tərtib edilməlidir. Nəzərinizə çatdırırıq ki, ISBN və DOI nömrələrinin verilməsi ilə elektron konfrans materialları toplusu nəşr olunacaqdır. Konfrans iştirakçılarının elektron konfrans materialları toplusu <https://www.virtualconferences.press> saytında yerləşdiriləcəkdir.

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Dear Colleagues!

We invite you to take part in the International Scientific and Practical Conference “Integration into the world and connection of sciences” Azerbaijan-2020, which will be held on September 30. Due to the current situation, the conference will be held online (in the form of a video conference). The conference can be attended by professors and candidates of sciences, researchers, doctoral students, masters. Thesis materials must be compiled in accordance with the rules outlined in the information letter. Please be informed that a collection of e-conference materials will be published with ISBN and DOI numbers. A collection of e-conference materials will be posted on <https://www.virtualconferences.press>.

According to the results of the conference, the best works will be noted among the reports of the participants. The authors of these works will be awarded certificates.

Уважаемые коллеги!

Приглашаем вас принять участие в Международной научно-практической конференции «Интеграция в мир и связь наук» Азербайджан-2020, которая состоится 30 сентября. В связи со сложившейся ситуацией конференция будет проходить в режиме онлайн (в форма видеоконференции). В конференции могут принять участие профессора и кандидаты наук, исследователи, докторанты и магистры. Тезисы должны быть составлены в соответствии с правилами, изложенными в информационном письме. Обращаем ваше внимание, что сборник материалов электронной конференции будет опубликован с номерами ISBN и DOI. Сборник материалов электронной конференции будет размещен на <https://www.virtualconferences.press>.

По итогам конференции лучшие работы будут отмечены среди докладов участников. Авторам этих работ будут вручены сертификаты.

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BIOLOGICAL SCIENCES

INTRODUCTION TO LAMIACEAE FAMILY

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Abstract: Lamiaceae or Labiatae is an important plant family which consists of 250 genera and species more than 7000. The largest genera that belong to this family are Salvia, Scutellaria, Stachys, Plectranthus, Hyptis, Teucrium, Thymus, Vitex, Nepeta and like basil, mentha, rosemary, sage, savory, marjoram, oregano, hyssop, thyme are widely used in culinary. A large number of Lamiaceae species have a great diversity with a cosmopolitan distribution and inhabit different ecosystems, since they are propagated by stem cuttings. Plants of this family are valuable in food, cosmetics, flavoring, fragrance, perfumery, pesticide, and pharmaceutical industries.





Key words: Lamiaceae, Hyssopus, Leonurus, Mentha, Nepeta, Origanum, Perovskia, Phlomis, Salvia, Lamiaceae, flowers, Plants of the Lamiaceae, found growing, species of bees.




Plants of the Lamiaceae family are important ornamental, medicinal, and aromatic plants, many of which produce essential oils that are used in traditional and modern medicine, and in the food, cosmetics, and pharmaceutical industry. Various species of the genera Hyssopus, Leonurus, Mentha, Nepeta, Origanum, Perovskia, Phlomis, Salvia, Scutellaria, and Ziziphora are widespread throughout the world, are the most popular plants in Uzbek traditional remedies, and are often used for the treatment of wounds, gastritis, infections, dermatitis, bronchitis, and inflammation. Extensive studies of the chemical components of these plants have led to the identification of many compounds, as well as essential oils, with medicinal and other commercial values. The purpose of this review is to provide a critical overview of the literature surrounding the traditional uses, ethnopharmacology, biological activities, and essential oils composition of aromatic plants of the family Lamiaceae, from the Uzbek flora.

The family name Lamiaceae or Labiatae refers to the fact that the flowers typically have petals fused into an upper lip and a lower lip, in Latin. The flowers are bilaterally symmetrical with five united petals and five united sepals. They are usually bisexual and verticillate. The leaves emerge oppositely, each pair at right angles to the previous one or whorled. The stems are frequently square in cross section, Most aromatic species possess a complex mixture of bioactive compounds that contribute to overall biological activity in both in vitro and in vivo conditions.

Conradina is a genus of flowering plants in the mint family, Lamiaceae. Its common name is false rosemary, or rarely, short leaf rosemary. There are 7 species of Conradina, all native to the southeastern United States. False rosemary is adapted to dunes and open, scrubby areas. It is a woody perennial shrub, often with masses of white to lavender blooms in the early spring or fall. These blooms attract several species of bees. Conradina is found growing in association with sand pines and oaks, and a pioneer species in disturbed areas. They are indigenous to the southeastern United States. Conradina is distinguished from the others by a sharply bent corolla tube.

Image	Scientific name	Common Name	Distribution and morphological characteristics
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	<p>Conradina brevifolia</p>	<p>Shortleaf false rosemary</p>	<p>This species grows in Polk and Highlands counties on the Lake Wales Ridge in Central peninsular Florida. It is listed as federally endangered species. Small shrub, up to 1 m high. Leaves are short fleshy 6.0 to 8.2 mm long, mostly shorter than the internodes, covered with short downy hairs and many tiny glands on the upper side. One to six lavender flowers per axil.</p>
	<p>Conradina canescens</p>	<p>False rosemary</p>	<p>This species is found along the gulf coast of Mississippi, Alabama and Florida, as well as in the sand hills of central Florida. It is the most common and widespread species in the genus. Small shrub, up to 1 m high. Leaves are 7 to 20 mm long, mostly longer than the internodes. Leaf blades are pubescent on both sides. One to three flowers per axil, lower corolla-lip 8–10-mm long; lateral lobes longer than wide. Calyx-tube hirsute or villi-ous-hirsute.</p>
	<p>Conradina cygniflora</p>		<p>Described in 2009, known only from Putnam County, Florida. Virgate shrub up to 1 m high, branches are erect to spreading, internodes 5–43 mm long. Leaves persistent, appearing fascicled- verticillate; narrowly obovate, 9–33 mm long. The abaxial leaf surface is densely-covered by simple unicellular hairs. Cymes carry 1–5 subsessile flowers, densely pubescent, 1.3–12.5 mm long. Large calyx of 8.5–11 mm long; densely covered with simple hairs, upper lip upcurved, 3.6–4.4 mm long, lower lip 4.3–5.5 mm long. Corolla strongly bilabiate, 20–29 mm long, lavender, shading to white in throat, with purple spots; abaxial surface of upper lip darker lavender.</p>
	<p>Conradina etonia</p>	<p>Etonia rosemary</p>	<p>Verified in only Putnam County, Florida. A federally endangered species. Straight slender shrub, about 1.5 m high. Leaves have hairy, veiny, glandular blades 1.5–3 cm long and 3–9 mm wide with tightly rolled edges. Three to seven flowers per axil. Pink to lavender in color with darker dotted lower petal.</p>

	<p>Conradina glabra</p>	<p>Found only in Liberty county, Florida. Listed as a federally endangered species. Small shrub, about 80 cm high but some individuals reach up to 2 m. Leaves are opposite, up to 1.5 cm long, hairless on the upper surface. Two to three flowers per axil. Corolla is 1.5–2 cm long, white to pale lavender in color with a band of purple dots on the lower lip.</p>
	<p>Conradina grandiflora</p>	<p>This species grows in counties along the Atlantic coast of Florida. It is listed as a threatened species in the state of Florida. Erect shrub, 1.5–2.0 m high, with hairy branches and twigs. Leaves are hairy, glandular, up to 1.5 cm long. Year-round hairy lavender flowers with darker lavender spots, lower lip is 12–15 mm long with lateral lobes longer than wide. This species has the largest flowers of genus Conradina.</p>
	<p>Conradina verticillata</p>	<p>Listed as federally threatened, this species occupies the sandy soil of cobble bars along rivers of the Cumberland Plateau in Kentucky and Tennessee. Erect shrub, 0.5 m high with reclining branches. Leaves are about 2.5 cm long, very narrow, and arranged in tight bunches that appear as whorls around the stems. Flowers are 2.5 cm long, purple to white and borne in leaf-like clusters of bracts at the ends of the stems.</p>

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