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DARSGAH-E-AHLEBAIT

Islamic Scientific ideology

The Holy Quran narrates about Lagenaria Siceraria

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Title Reference
And we caused to grow over him a gourd vine. (Sura As-Saffat (Those who set the Ranks), verse 146).

Description
Lagenaria siceraria (Molina) Standley (family cucurbitaceae), commonly known as lauki (Hindi) and bottle gourd (English), is a medicinal plant and utilizable species. Lagenaria siceraria fruit is traditionally used for its cardio protective, cardiotonic, general tonic and aphrodisiac properties. It is also used in treatment of various allergic and inflammatory disorders like bronchial asthma, rhinitis, bronchitis and rheumatism. Various extracts of fruits of Lagenaria siceraria were found to have anti-inflammatory, analgesic, hepatoprotective, antihyperlipidemic, diuretic and antibacterial activities. Methanol extract of fruits was found to contain flavonoids, saponins, tannins, carbohydrates and terpenoids. A novel ribosome inactivating protein, lagenin has been isolated from seeds of Lagenaria siceraria. Fruits are reported to contain more soluble dietary fibers than insoluble cellulose fibers4. The fruits are considered as good source of vitamin C, β-carotene, vitamin B-complex, pectin and also contain highest choline level- a lipoprotic factor. Few of these primary and secondary metabolites have been implicated in the reported uses of Lagenaria siceraria fruits. Previously we have reported the immunomodulatory activity of ethyl acetate and n butanol soluble parts of the successive methanol extract of Lagenaria siceraria fruits and immunomodulatory activity of purified saponin mixture extracted from fruit of Lagenaria siceraria (Gangwal, Parmar, & Sheth, 2010).

Today Research
- Molecular Genetic Mapping of Two Complementary Genes Underpinning Fruit Bitterness in the Bottle Gourd (Lagenaria siceraria [Mol.] Standl.) (Wu et al., 2019).
- Prevalence and variation of viviparous germination with respect to fruit maturation in the bottle gourd Lagenaria siceraria (Molina) Standley (Cucurbitaceae) (Aya et al., 2019).

- Acute and 28-day oral toxicity studies of methanolic extract of Lagenaria siceraria (Cucurbitaceae) fruit in rats (Shendge & Belemkar, 2019).
- Lagenaria siceraria - synthesised ZnO NPs - a valuable green route to control the malaria vector Anopheles stephensi (Nagarajan & Vijayarangan, 2018).
  Production of nitrogen fixing Azotobacter (SR-4) and phosphorus solubilizing Aspergillus niger and their evaluation on Lagenaria siceraria and Abelmoschus esculentus (Din et al., 2019).

Conclusions

We can develop a research on its compounds by using in-silico studies and can find the synergism of compounds for multiple diseases for new drug combinations.

References

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