



Supplementary Material

Purification of Bioactive Peptides from Edible Plants and Their Antibacterial Properties Against Food Borne Pathogens

Irsa Mateen^{1,4}, Taimia Mujahid¹, Shumaila Naz², Hira Muzzamal³,
Beenish Maqsood¹ and Mahjabeen Saleem^{1,3*}

¹School of Biochemistry and Biotechnology, University of the Punjab, Lahore-54590, Pakistan

²Department of Biochemistry, University of Wah, Quaid Avenue, Wah Cantt, Pakistan

³School of Medical Lab Technology, Minhaj University Lahore, Lahore-54770, Pakistan

⁴School of Biochemistry, Minhaj University Lahore, Lahore-54770, Pakistan.

Supplementary Table S1. Taxonomic classification and medicinal uses of levels of selected plants.

Scientific name	Common name	Family	Genus/ specie	Medicinal uses
<i>Alstonia scholaris</i>	Blackboard tree	Apocynaceae	<i>Alstonia scholaris</i>	Pharmacological drugs, anticancer, dietary fiber source
<i>Bauhinia variegata</i>	Kachnar	Caesalpiniaceae	<i>Bauhinia variegata</i>	Antibacterial, antifungal, swelling reducing, thyroid hormone regulating
<i>Cestrum nocturnum</i>	Raat ki Rani	Solaceae	<i>Cestrum nocturnum</i>	Treatment of epilepsy, antibacterial
<i>Cordia myxa</i>	Lasura	Boraginaceae	<i>Cordia myxa</i>	Diuretics, demulcents, stomach aches and coughs
<i>Curcuma longa</i>	Haldi	Zingiberaceae	<i>Curcuma longa</i>	Antibacterial, strong healing agent, anti-inflammatory agent
<i>Cycas revoluta</i>	Sago palm	Asparagaceae	<i>Chlorophytum acutum</i>	Immunity booster
<i>Ficus benjamina</i>	Black fig	Moraceae	<i>Ficus benjamina</i>	Source of fibre
<i>Ficus carica</i>	Fig	Moraceae	<i>Ficus carica</i>	Anti-inflammatory, antioxidant, good remedy for insect bites and stings, digestion promoter and cure for ulcer
<i>Ficus religiosa</i>	Sacred fig	Moraceae	<i>Ficus religiosa</i>	Traditional medicine to cure asthma, epilepsy, sexual disorders, gastric problems, inflammatory infectious disorders, diarrhea
<i>Foeniculum vulgare</i>	Fennel	Apiaceae	<i>Foeniculum vulgare</i>	Antifungal, antibacterial, antioxidant, antithrombotic
<i>Moringa oleifera</i>	Sohanjana	Moringaceae	<i>Moringa oleifera</i>	Antioxidant, reduce inflammation, lower cholesterol
<i>Murraya koenigii</i>	Curry tree	Rutaceae	<i>Murraya koenigii</i>	Herb containing anti-disease properties used as traditional medicine
<i>Phaseolus vulgaris</i>	Beans	Fabaceae	<i>Phaseolus vulgaris</i>	Anti-diabetic, anti-obese, starch blockers, have weight loss properties

Table continued on next pages.....

* Corresponding author: mahjabeen.mlt@mul.edu.pk
0030-9923/2026/0002-0581 \$ 9.00/0



Copyright 2026 by the authors. Licensee Zoological Society of Pakistan.
This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (<https://creativecommons.org/licenses/by/4.0/>).

Scientific name	Common name	Family	Genus/ specie	Medicinal uses
<i>Plumbago capensis</i>	Plumbago	Plumbaginaceae	<i>Plumbago capensis</i>	Treat lead poisoning, wound healing
<i>Punica granatum</i>	Pomegranate	Lythraceae	<i>Punica granatum</i>	Antibacterial, antifungal, swelling reducing, thyroid hormone regulating
<i>Ravenala madagascariensis</i>	Traveller's palm	Strelitziaceae	<i>Ravenala madagascariensis</i>	Antiseptic, contain healthy sterols such as stigma sterols, rich in sugar
<i>Reseda odorata</i>	Mignonette	Resedaceae	<i>Reseda odorata</i>	Herb containing anti-disease properties used as traditional medicine
<i>Tamarindus indica</i>	Tamarind	Apiaceae	<i>Tamarindus indica</i>	Antifungal, antibacterial, antioxidant, antithrombotic
<i>Terminalia chebula</i>	Harar	Combretaceae	<i>Terminalia chebula</i>	Antitussive, cardiogenic, homeostatic, diuretic, laxative, used to treat kidney disorders,
<i>Thuja occidentalis</i>	White-cedar	Cupressaceae	<i>Thuja occidentalis</i>	Disinfectants, insecticide, relieve constipation and headache, anti-fungal