



Review on Medicinal Plants of Nahargarh Biological Park Kukus Jaipur Rajasthan

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ABSTRACT

The ancient herbal medicine method known as Ayurveda has a rich history and foundation in India. Herbal plants are useful in the diagnosis, treatment, and prevention of human illness. Since ancient times, people have used plants as a traditional kind of medicine. Worldwide, plants have been linked to the advancement of human civilization. On the other hand, plants are thought to be abundant in bioactive compounds which give them therapeutic benefit. New herbal medications may be developed using medicinal plants as a source. The potential of medicinal plants' pharmacological effects as a future drug or medicine for healthcare management has been acknowledged in the twenty-first century. In 1993, a portion of this sanctuary was transformed into Nahargarh Biological Park, a biological park dedicated to the conservation, education, and research of wildlife. The findings showed that total 181 different plant varieties were grown in Nahargarh biological park in which 22 herbs, 60 shrubs and 99 trees. All these different species of plant have medicinal value and are helpful in different type of illness. Researcher should have to isolate fungus from these plants and identify their bioactive compounds for investigating their different applications and medicinal properties for future.

Keywords: Medicinal plants, NBP, endophytic fungi, Applications, Importance.

INTRODUCTION

Since the beginning of time, people have sought for natural remedies for various illnesses. Like with animals, the first uses of therapeutic herbs were purely instinctual (1). Everything was based on experience because there was not enough knowledge available at the time on the causes of the ailments or the specific plants that might be used as a remedy. As the rationale for using particular medicinal plants to cure particular ailments came to light throughout time, the use of medicinal plants increasingly renounced the empiric framework and was instead built on explicative facts.

The medicinal properties of plants are due to the presence of active principles. Utilizing plants with medicinal properties for therapeutic reasons has a long history that reaches back to antiquity. Herbal medicines are mostly made from medicinal herbs. The Chinese, Egyptian, and Ayurvedic traditional medical systems all used these herbs extensively (2). In addition to serving as a source of traditional medicine, medicinal plants also serve as valuable trade commodities, supplying far-off markets with the raw materials they need to create new medications. According to Gewali (2008), medicinal plants include any plant that is utilised to treat or prevent disease, affect physiological or pathological processes, or serve as a source or precursor for pharmaceutical goods (3). Herbology, often known as "herbal medicine," refers to the many plant species that are utilised in herbalism. Even in the prehistoric era, people employed plants for medicinal purposes. Chinese texts, Egyptian papyrus, and ancient Unani scrolls all mention the use of therapeutic herbs (4).

It is exceedingly unlikely that a plant without endophytes would live in its natural habitat because it is considered that all plant tissues are colonised by endophytes (Bacteria, Fungi, and/or Archaea). Plants are sessile organisms that cannot quickly or effectively adjust to changing environmental conditions without endophytic assistance. Given that endophytes can exhibit unique adaptations to extremophilic conditions, choosing plants to study the symbiotic relationships between plants and their associated microbiota based on their environmental setting is a great strategy for clarifying the significance of endophytes for plant survival (5,6). According to Hosseini

Moghaddam *et al.* (2021), in laboratory settings, endophytic fungal species (*Periconia macrospinos*, *Neocamarosporium chichastianum*, and *Neocamarosporium gogapense*) derived from plants adapted to the desert have a generally positive impact by improving the salinity and drought tolerance in cucumber and tomato plants (7). In their most basic form, endophytes are organisms that reside inside plants and are frequently linked to fungus and bacteria, without producing any obvious signs of disease (8). According to Zhang *et al.*, (2006), endophytes exhibit remarkable diversity and are found in a variety of environments, including tropical, temperate, and boreal forest (9). They have been isolated from various plant components, such as the root, stem, leaves, fruits, and buds, and are known to inhabit practically all plants (10).

MATERIAL AND METHOD

Study area

Nahargarh ESZ is named after the prominent sanctuary of Nahargarh. The Eco-Sensitive Zone has a total area of 79.356 sq. km. The Nahargarh Wildlife Sanctuary is the prominent feature of Nahargarh ESZ, and the Sanctuary lies between latitudes 26°56'15.08''N and 26°57'5.81''N and longitudes 75°48'55.70''E and 75°46'54.65''E. The sanctuary is spread over an area of 52.40 sq. km, enclosing the famous Nahargarh fort, on the Jaipur-Delhi highway. Nahargarh ESZ falls under the Biogeographic Zone-4 of India. Nahargarh Wildlife Sanctuary is the prominent identity of the Nahargarh ESZ. Nahargarh Wildlife Sanctuary is located in Tehsil Amber (Amer), which comes under Nahargarh ESZ, and it is situated in North-Eastern part of Aravalli Hills and Northern outskirts of Jaipur city (Rajasthan). The Sanctuary is at a distance of 3 km from Amer town on Delhi highway. Deciduous Forest covering hills is a home for wild life of this sanctuary. A part of this sanctuary was developed as a Biological Park in 1993, which known as Nahargarh Biological Park with the sole objectives of Wild Life Conservation, Wildlife Education and Research.

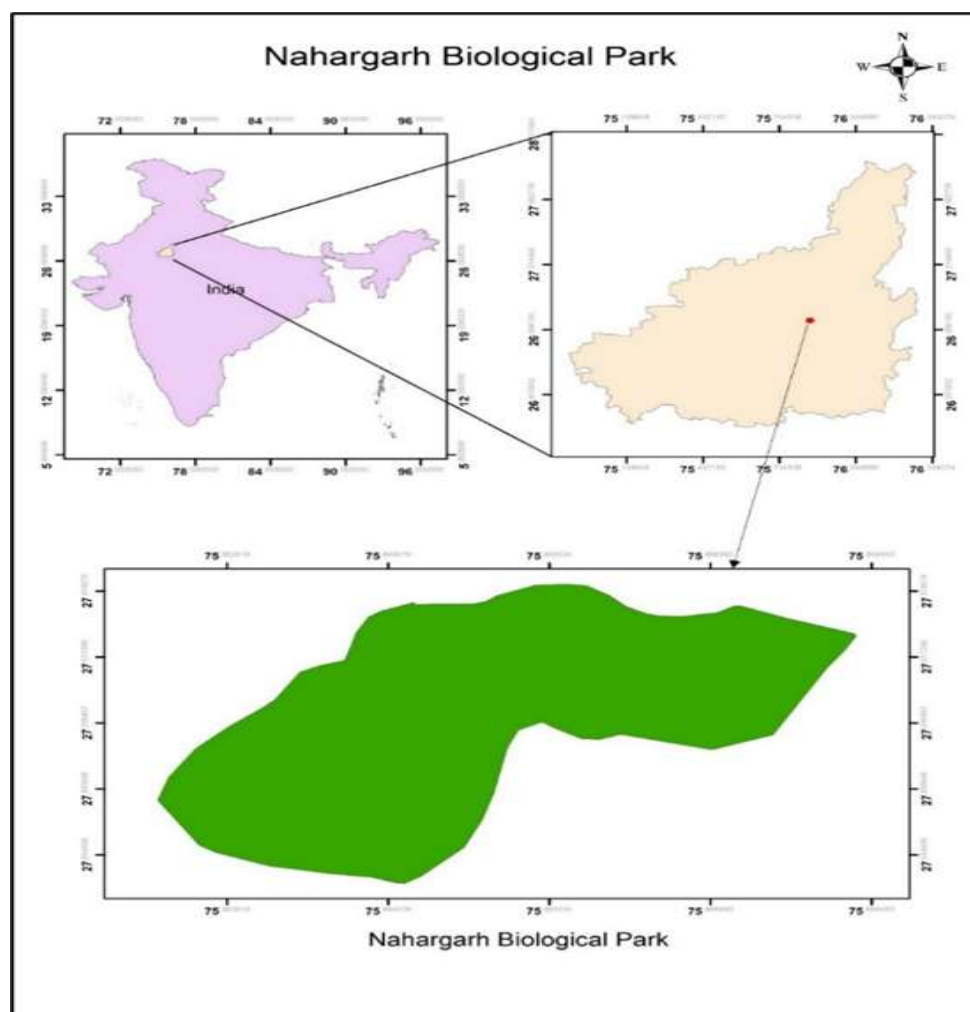


Fig 1- Study area and location (Figure generated by researcher)



Table 1- Plant list collected from Nahargarh Biological Park Kukus, Jaipur Rajasthan.

Table 1 Identification of medicinal plants associated with endophytic fungus					
S. No.	Medicinal Plant	Extracted Bioactive compound	Isolated fungus	Activity	REFEREN CES
1	Acacia arabica (Lam.) Muhl. ex Willd.	Gallic acid, dicatechin, quercetin, robidandiol, β -amyryn, hentriacontane, betulin, sitosterol, kaempferol-3 chlorogenic acid, and glucoside isoquercetin	Aspergillus niger	Antimicrobial, antifungal and anticancer activities	(11)
2	Acacia catechu (L. f) Willd.	Flavonoids, Rutin, Polyphenolic, Phenolic compound—rhamnetin, 4-hydroxyphenol, 3,3',5,5',7-pentahydroxyflavane, fisetinidol, 5-hydroxy-2-[2-(4-hydroxyphenyl) acetyl]-3-methoxylbenzoic acid, (2S,3S)-3,7,8,30,40-pentahydroxyflavane, Gallic acid	Epidermophyton floccosum	Anti-bacterial, anti-microbial, anti-immuno-modulatory activities	(12)
3	Acacia leucophloea Roxb.	Dicatechin, quercetin, robidandiol, β -amyryn, hentriacontane, betulin, sitosterol and kaempferol-3 chlorogenic acid	Cophinforma sp., Fusarium acuminatum, Neofusicoccum parvum and Tiarosporella graminis	An expectorant, Anthelmintic, an antipyretic activity	(13)
4	Adina cordifolia Roxb.	11-hydroxymustakone, N-methyl-2-pyrrolidone, N-formylannonain, cordifolioside A,	Asterina	Antibacterial, antiseptic, antibilious, febrifuge activities	(14)



		magnoflorine, tinocordiside and syringin			
5	Aegle marmelos L.	Coumarin, xanthotoxol, imperatorin, aegeline, and marmeline	Curvularia australiensis, Alternaria citrimacularis, Alternaria alternata, Cladosporium cladosporioides, Aspergillus niger	Anti-bacterial, anti-fungal activities	(15)
6	Alangium lamarcki (L. f.)	Alangine, ankorine, tubulosine, alangicine, salsoline	Trichophyton mentagrophytes (T. Mentagrophytes), Trichophyton rubrum (T. Rubrum), Microsporum canis (M. Canis), Microsporum gypseum (M. Gypseum) and Epidermophyton floccosum (E. Floccosum)	Laxative, antiepileptic, astringent, antiulcer, pungent, purgative Activities	(16)
7	Albizia odoratissima (L. F.) Benth	D-catechin, β -sitosterol, albiziahexoside, betulnic acid and echinocystic acid glycosides	Rosellinia sanctae-cruciana	Anti-inflammatory, anti-spermatogenic, antiandrogenic, anticonvulsant, mast cell stabilizing, anti-tumour, notepad activities	(17)
8	Albizia lebbeck (L.) Benth	saponins, terpenoids, and lignans	Aspergillus niger	anti-inflammatory, antioxidant, antidiabetic, antibacterial, antiseptic, and cytotoxic	(18)
9	Albizia procera Roxb.	Arabinose, galactose, rhamnose and fructose	Botryodiplodia theobromae (Pat.) And Pestalotiopsis guepinii (Desm.).	Anti-cancer activity, antimicrobial activities	(19)
10	Anogeissus latifolia DC.	Arabinose, galactose, mannose, xylose, rhamnose, and glucuronic acid as constituent sugars, protein, moisture, and tannin	Uncinula spp	Anti-oxidant, anti-bacterial activities	(20)
11	Azadirachta indica A. Juss.	Azadirachtin, nimbolin, nimbin, nimbidin,	Chaetomium globosum, Pestalotiopsis spp., Phoma sp., Aspergillus flavus, Aspergillus niger,	Anti-bacterial, anti-carcinogenic, antifungal, anti-hyperglycemic, anti-	(21)



		nimbidol, salannin, and quercetin.	Alternaria alternata (Fr.) Keissl., Fusarium spp., Penicillium spp., Trichoderma spp., Sterile mycelia Geotrichum sp. AL4 Phomopsis sp. YM 31148	inflammatory, antimalarial, antimutagenic, antioxidant, antiulcer, antiviral, and immune-modulatory activities	
12	Balanites roxburghii PL.	Saponins, triterpenoids, flavonoids, alkaloids, and phenolic compound	Periconium sp.	Anti-asthmatic, bronchodilators, anti-inflammatory, hypocholesterolemic, antinociceptive and antioxidant activities	(22)
13	Bassia latifolia Roxb.	Saponins, flavonoids, and tannins	Aspergillus, Fusarium, Trichoderma, Penicillium, and Phomopsis	Anti-diabetic, anti-bacterial, anti-fungal activities	(23)
14	Bauhinia malabarica Roxb.	Flavonoids, alkaloids, tannins, and saponins	Penicillium, and Phomopsis	Anti-tumour, anti-microbial, anti-inflammatory, anti-goitrogenic, hepatoprotective properties	(24)
15	Bauhinia purpurea Linn.	Flavonoids, alkaloids, glycosides, and tannins	Pseudobeltrania sp.	Antibacterial, antidiabetic, analgesic, anti-inflammatory, anti-diarrheal, anti-cancerous, nephroprotective and thyroid hormone regulating activities	(25)
16	Bauhinia retusa Roxb.	Flavonoids, alkaloids, tannins, and phenolic acids	Taxomyces andreanae,	Anti- inflammation, anti-oxidatant, antidiabetic and activities	(26)
17	Bauhinia variegata L.	Flavonoids, Triterpenoids, alkaloids and phenolic compounds	Phomopsis sp.	Anticancer, antioxidant, hypolipidemic, antimicrobial, anti-inflammatory activities	(27)
18	Bombax malabaricum D.C	Flavonoids, tannins, alkaloids, and saponins	Penicillium sp	Antimicrobial, Antimalarial, Hemolytic Activities	(28)



19	Boswellia serrata Roxb.	Boswellic acids, particularly AKBA (acetyl-11-keto- β -boswellic acid)	Piriformospora indica	Anti-inflammatory, antioxidant activities	(29)
20	Bridelia retusa L.	Flavonoids, alkaloids, tannins, and triterpenoids	Pestalotiopsis I, Neopestalotiopsis mesopotamica	Analgesic activity, anti-inflammatory activity, hepatoprotective activity, antimicrobial activity, immunomodulatory activity and hypoglycemic effect.	(30)
21	Buchanania latifolia Roxb.	Flavonoids, alkaloids, tannins, and phenolic compounds	Phyllactinia guttata (Wallr. Fr.) Lev. A. Cleistothecium	Anticancer, Anti-inflammatory, Nervine tonic, Cardio tonic, Stomachic, Laxative, Diuretic, Aphrodisiac, Febrifuge actions	(31)
22	Butea frondosa Roxb.	Flavonoids, tannins, alkaloids, sterols and triterpenes	Aspergillus fumigatus	Astringent, depurate, diuretic and aphrodisiac activities	(32)
23	Cassia fistula L.	Glycosides, tannins, and flavonoids.	Periconia sp., Papulosporea sp.	Antifungal, antioxidants, antimicrobial, anti-inflammatory, anti-tumour, hepatoprotective, hypoglycemic activities	(33)
24	Chloroxylon swietenia DC	Quinones, triterpenoids, flavonoids, and coumarins	Phomopsis sp.	Anti-bacterial and anti-fungal properties.	(34)
25	Cordia myxa L.	Tannins, flavonoids, terpene, coumarin and saponins	(Aspergillus niger, Penicillium spp and Scytalidium spp	Analgesic, anti-inflammatory, immunomodulatory, antimicrobial, antiparasitic, insecticidal, cardiovascular, respiratory, gastrointestinal and protective effects.	(35)
26	Cordia rothii Linn.	Tartaric acid, acetic acid, and succinic acid, gum, pectin, sugar, tannins,	Phoma, Peyronellaea and Aspergillus terreus Thom,	Antidiabetic, antiulcer, anti-inflammatory, immune-modulator	(36)



		alkaloid, flavonoids, sesquiterpenes, and glycosides		and analgesic activities	
27	Dalbergia paniculate Roxb.	Flavonoids, Alkaloids, Terpenoids, Tannins, Lignans and Phenolic acids	Aspergillus flavus, Alternaria sp,	Analgesic, anti- inflammatory, antipyretic, antimicrobial, anti- diarrheal, anti- ulcerogenic, anti- spermicidal, larvicidal activities	(37)
28	Dalbergia sissoo Roxb.	Flavonoids, Terpenoids, Tannins, Lignans and Phenolic acids	Periconia,Cheatomium globosum, Phoma Sp., Colletotrichu, Aspergillus flavus, Alternaria sp, Hbl2(UI)	Antimicrobial, neural, cardiac, antioxidant, antiparasitic,antidiabet ic,anti- inflammatory,analgesi c, Osteogenic, dermatological, gastrointestinal, reproductive activities	(38)
29	Dendrocalamus strictus Roxb.	Silica, Flavonoids, Lignans, Phytosterols, Fiber and Protein	Dictyoarthrinium rabaulense,	Anti-oxidation, free radical scavenging, anti-inflammatory, liver protection and ameliorating cognitive deficits	(39)
30	Diospyros melanoxylon Roxb.	—	Not found	Antioxidant, Anti- proliferative, Antimicrobial, Antiplasmodial, Analgesic, Neuropharmacologica l activities	(40)
31	Eugenia jambolana Lam.	Anthocyanins, Tannins, Flavonoids, Vitamins and Minerals, Ellagic Acid, Quercetin, Jambosine and Jamboline	Aspergillus tubingensis, Coprinosopsis cinerea,	Anti-diabetic, anti- oxidant, antibacterial and antiviral activities	(41,42)
32	Lannea grandis Dennst.	Alkaloids, flavonoids, tannins, saponins, terpenoids, and other secondary metabolites	Aspergillus flavus, Aspergillus niger, Alternaria alternata and Colletotrichum gloeosporioides	Antioxidant, anti- inflammatory, and antibacterial activities	(43)



33	<i>Ficus glomerata</i> Roxb.	—	Not found	-	-
34	<i>Ficus infectoria</i> L.	—	Not found	-	-
35	<i>Ficus religiosa</i> L.	Ficin, Flavonoids, Tannins, Beta-sitosterol, Quercetin, Gallic acid, Luteolin and Apigenin	<i>Curvularia lunata</i> <i>Dendryphonanum</i> (Nees)	Antimicrobial, anti-parasitic, anti-Parkinson's, anticonvulsant, anti-amnesic, anticholinergic, antidiabetic, antiinflammatory, analgesic, cytotoxic, anti-ulcer, wound healing, antioxidant, anti-asthmatic	(44,45)
36	<i>Ficus bengalensis</i> L.	Flavonoids, Alkaloids, Glycosides, Saponins, Ficin, Tannins, Steroids and Terpenoids	<i>Phyllosticta</i> sp., <i>Phomopsis</i> sp., <i>Lasiodiplodia theobromae</i> ,	Astringent, haemostat, as anti-inflammatory and anti-septic agent	(46)
37	<i>Lagerstroemia parviflora</i> Roxb.	Polyphenols, Flavonoids, Tannins, Quercetin, Ellagic acid and Terpenoids	<i>Mucor hiemalis</i> , <i>Rhizopus stolonifer</i> , <i>Aspergillus niger</i> , <i>Aspergillus japonicus</i> and <i>Torula</i> sp. Were early colonizers while <i>Aspergillus nidulans</i> , <i>Aspergillus flavus</i> , <i>Aspergillus fumigatus</i> , <i>Emericella nidulans</i> , <i>Ascochyta</i> sp., <i>Penicillium chrysogenum</i> , <i>Penicillium aurantiogriseum</i> , <i>Trichoderma reesei</i> , and <i>Trichoderma viride</i>	Antioxidant, antibacterial, antiviral, anti-inflammatory, antinociceptive, anti-diarrheal, cytotoxic, xanthine oxidase inhibition, anti-obesity, and anti-fibrotic properties	(47)
38	<i>Flacourtia ramontchi</i> Burm. f. Merr.	Polyphenols, Triterpenoids, Carotenoids, Vitamins, Fatty Acids and Minerals	<i>Aspergillus niger</i> , <i>Trichophyton mentagrophytes</i>	Anti-Inflammatory, Antimicrobial, Antioxidant, Hepatoprotective, Antimalarial, Anti-Diabetic, Anti asthmatic and Antibacterial Activity	(48)



39	<i>Holoptelea integrifolia</i> Roxb.	Flavonoids, Triterpenoids, Alkaloids, Phenolic Compounds, Tannins, Essential Oils and Lignans	<i>Fusarium proliferatum</i>	Anti-inflammatory, anthelmintics, antibacterial, anti-diarrheal, antitumor, adaptogenic, antidiabetic and antioxidant activities	(49)
40	<i>Mangifera indica</i> L.	Polyphenols, Vitamins, Carotenoids, Dietary Fiber, Enzymes, Terpenoids and Beta-Glucans	<i>Colletotrichum fioriniae</i> , <i>Neofusicoccum parvum</i> , <i>Pestalotiopsis mangiferae</i> , <i>Robillarda sessilis</i>	Antidiabetic, anti-oxidant, anti-viral, cardiogenic, hypotensive, anti-inflammatory properties.	(50-52)
41	<i>Melia azedarach</i> L.	Alkaloids, Flavonoids, Triterpenoids, Tannins, Essential Oils and Phytosterols	<i>Botryosphaeria</i> sp	Antioxidative, analgesic, anti-Inflammatory, insecticidal, rodenticidal, antidiarrhoeal, deobstruent, diuretic, antidiabetic, cathartic, emetic, antirheumatic and antihypertensive activities	(53)
42	<i>Mimusops hexandra</i> Roxb.	—	Not found	-	-
43	<i>Moringa pterygosperma</i> Gaertn.	Flavonoids, isothiocyanates, fatty acids, phytosterols, polyphenols, glucosinolates	<i>Nigrospora</i> sp., <i>Fusarium</i> sp.	Anti-cancer, anti-diabetic, anti-inflammatory and antioxidant activities	(54)
44	<i>Morus alba</i> L.	Polyphenols, Anthocyanins, Resveratrol, Quercetin, Morin, Beta-carotene, Chlorogenic acid	<i>Drechslera hawaiiensis</i>	Anti-platelet, anxiolytic, anti-asthmatic, anthelmintic, antidepressant, cardioprotective, and immune-modulatory activities	(55)
45	<i>Mitragyna parvifolia</i> Roxb.	Mitragynine, 7-hydroxymitragynine, speciogynine, paynantheine.	Arbuscular mycorrhizal	Antipyretic, anti-arthritis, anticonvulsant, anthelmintic, antimicrobial, antiproliferative, antioxidant activities	(56)
46	<i>Ougeinia dalbergioides</i>	Flavonoids, Triterpenoids,	<i>Cladosporium cladosporioides</i> ,	Anti – inflammatory, hypotensive action,	(57)



		Alkaloids, Tannins and Phenolic Compounds	Colletotrichum sp. 1, Corynespora cassicola, Idriella lunata, Nigrospora oryzae, Periconia sp., Pestalotiopsis sp. And Spegazzinia parkeri	anthelmintic, antioxidant activity, hepatoprotective, hypoglycemic and wound restoration activities.	
47	Phoenix sylvestris (L.) Roxb.	Flavonoids, Triterpenoids, Carotenoids, Vitamins and Phenolic Compounds	Alternaria carthami	Antipyretic, cardiotonic, laxative, diuretic, and antioxidant activities	(58)
48	Phyllanthus emblica L.	Vitamin C, Polyphenols, Tannins, Alkaloids, Carotenoids and Fiber	Cladosporium herbarum, Colletotrichum falcatum, Trichoderma harzianum	Antidiabetic, hypolipidemic, antibacterial, antioxidant, antiulcerogenic, hepatoprotective, gastroprotective, and chemopreventive prop erties.	(59)
49	Pongamia glabra Vent.	Pongamol, Karanjin, Glabrachromene , Pongapin, β - Sitosterol, Kaempferol and Quercetin	Alternaria alternata, Cladosporium cladosporiodes, Penicillium funiculosum, White sterile mycelia, Curvularia lunata, Green sterile mycelia	Analgesic, anti- inflammatory and wound-healing activities	(60)
50	Prosopis spicigera L.	Tannins, Flavonoids, Alkaloids, Saponins and Glycosides	Aspergillus, Fusarium and Alternaria spp.	Anticancer, antidiabetic, anti- inflammatory, antimicrobial and antioxidant effects	(61)
51	Pterocarpus marsupium Roxb.	Pterostilbene, Flavanones, Pterocarpenes and Gallic acid	Alternaria alternata and a Fusarium sp.	Antifungal, antioxidant, analgesic, anti-inflammatory, hepatoprotective	(62)
52	Santalum album L.	Santalol, α - Santalol, Alkaloids, Saponins and Glycosides	Fusarium sp. Colletotrichum sp.	Antipyretic, antiseptic, antiscabetic, and diuretic properties	(63)
53	Schleichera trijuga Wild.	Triglycerides, triterpenoids	Corynespora schleichericola	Analgesic, antibiotic, anti-dysentery, anti- helminthic, antioxidant and anticancer activities.	(64)



54	Schrebera swietenoides Roxb.	Flavonoids, Alkaloids, Saponins and Glycosides	Aspergillus flavus and Rhizopus stolonifer	ANTIOXIDANT, ANTI-INFLAMMATORY AND ANTIPYRETIC ACTIVITIES	(65)
55	Soymida febrifuga Roxb.	-	-	Anticancer, antihelminthic, antioxidant ant malarial and antimicrobial	(66)
56	Sterculia urens Roxb.	-	-	Antioxidant, and antimicrobial	(67)
57	Tamarindus indica L.	Tannins, tartaric acid	Colletotrichum, Diaporthe, Aspergillus, Czernyella/Cochliobolus, Nigrospora, Lasiodiplodia and Penicillium	Hypolipidemic, weight reducing, antimicrobial, hepatoprotective, anthelmintic, antioxidant, analgesic & anti-inflammatory etc	(68)
58	Tectona grandis (L. F)	Quinones, alkaloids	Alternaria sp., Colletotrichum sp, Nigrospora sp	Antioxidant, anti-inflammatory, Antimicrobial, antiarthritic, cytotoxic, anti-bacterial, anti-tyrosinase, anti-diabetic, anti-nociceptive, anti-termite, anti-pyretic, cytotoxic, analgesic, hypoglycemic, wound healing and anti-plasmodial activities	(69)
59	Terminalia tomentosa Roxb. (DC)	Tannins, flavonoids	Alternaria, mucedo, curvularia, aspergillus	Antifungal, antioxidant, antihyperglycaemic, anti-diarrhoeal, antileucorrhoeal activities	(70)
60	Terminalia arjuna Roxb. (W&A)	Arjunolic acid, Flavonoids	Diaporthe arengae, Chaetomella raphigera, Cochlonema sp., Gonatobotrys simplex, Melasmia hypophylla, Myrothecium cinctum, Pestalotiopsis terminaliae,	Hypocholesterolemic, antibacterial, antimicrobial, antitumoral, antioxidant, antiallergic and antifeedant, antifertility and anti-HIV activities	(71)



61	<i>Terminalia bellirica</i> (Gaertn) Roxb.	Tannins,	<i>Acremonium sclerotigenum</i>	Antioxidant, antidiabetic, analgesic, antidiarrhoeal, anti-inflammatory	(72)
62	<i>Ziziphus jujuba</i> Mill.	Flavonoids, triterpenoids	<i>Alternaria alternata</i>	Antibacterial, anti-inflammatory and antioxidant	(73)
63	<i>Ziziphus xylopyrus</i> Retz. (Wild)	Flavonoids and saponins	<i>Melasmia hypophylla</i> and <i>Myrothecium cinctum</i> ,	Antisteroidogenic, anticonvulsent, antinociceptive, antiinflammatory, antidepressant, antidiarrhoeal activities	(74)
64	<i>Balanites aegyptiaca</i> L.	-	-	Antimicrobial, antioxidant, anti-diabetic, antiasthmatic activities	(75)
65	<i>Bombax ceiba</i> L.	Flavonoids	<i>Aspergillus tamari</i>	Stimulant, astringent, haemostatic, aphrodisiac, diuretic, antidiarrheal, cardiogenic, emetic, demulcent, antidiysenteric, alterative, and antipyretic activities	(76)
66	<i>Butea monosperma</i> Lam. (Taub)	Flavonoids	<i>Chaetomium crispatum</i> , <i>Fusarium sterilihyphosum</i> , <i>Papulaspora immersa</i> , <i>Scopulariopsis canadensis</i> ,	Hepatoprotective, anti-cancer, anti-diabetic, anti-inflammatory, anti-asthmatic, anti-oxidant, anti-convulsant, and anti-microbial effects	(77)
67	<i>Cassia siamea</i> (Lam.) H.S.Irwin & Barneby	Anthraquinones, alkaloids	<i>Aspergillus flavus</i>	Analgesic, antioxidant, anti-inflammatory, antimalarial, vasorelaxant, antitumor, antiarrhythmic, antiandrogen, anti-HIV and anxiolytic activities	(78)
68	<i>Crataeva nurvala</i> Buch. Ham.	Alkaloids	<i>Verticillium</i> , <i>Nigrospora oryzae</i> and <i>Fusarium verticilloides</i>	Antioxidant, anthelmintic and antimicrobial properties activities	(79)



69	Diospyros montana Roxb.	Diosgenin	Neopestalotiopsis ellipsospora	Antiviral, anticancer, antitumor, antimalarial, anthelmintic, prostaglandin synthesis inhibitory, anti-inflammatory, hypolipidemic, and antileukemic activities	(80)
70	Dolichandrone falcata Seem	Flavanoids	Papulaspora immersa, Scopulariopsis canadensis	Anti-parasitic, anti-estrogenic, anti-allergic, anti-inflammatory, and anti-oxidant activities	(81)
71	Erythrina suberosa Roxb.	-	-	Anti-inflammatory and analgesic activities	(82)
72	Ficus virens Aiton var.	Ficin	Beltraniella nilgirica, Lasiodiplodia theobromae, Ophioceras leptosporum, Periconia byssoides and Septonema harknessi. Colletotrichum and Stachybotrys	Antioxidant, anti-inflammatory, antimicrobial, and anticancer activities	(83)
73	Ficus benjamina L.	Ficin and Benzaldehyde	Pseudocercospora, Phylllosticta, or Penicillium.	Antimicrobial, anti-parasitic, anti-Parkinson's, anticonvulsant, anti-amnesic, anticholinergic, antidiabetic, antiinflammatory, analgesic, cytotoxic, anti-ulcer, wound healing, antioxidant, anti-asthmatic activities	(84)
74	Guazuma ulmifolia Lam.	Quercetin	Muscodor albus, Nigrograna mackinnonii	Antioxidant, anticancer and antifungal activities	(85)
75	Hardwickia binata Roxb.	Flavonoids and alkaloids	Periconia byssoides and Septonema harknessi	Antimicrobial, analgesic, antifungal, antibacterial, cardio protective, anti-inflammatory activities	(86)
76	Kigelia pinnata (Lam.) Benth.	Norviburtinal	Alternaria alternata, Alternaria tenuissima, Aspergillus flavus, Aspergillus niger,	Wounds healing, rheumatism, psoriasis, diarrhea and stomach ailments activities	(87)



			Botryodiplodia theobromae, Chaetomium globosum, Colletotrichum gloeosporioides, Curvularia geniculate, Curvularia lunata, Fusarium solani, Mucor pusillus, Nigrospora oryzae, Nigrospora sphaerica,		
77	Madhuca zapota J.F. Gmel.	Tannins, saponins, flavonoids, and triterpenoids.	Aspergillus, Penicillium, Fusarium, Cladosporium, and Phycomycetes	Anti-diabetic, antiulcer, hepato protective, anti-pyretic, anti-fertility, analgesic, anti-oxidant, swelling, inflammation, piles, emetic, dermatological, laxative, tonic, anti-burn, anti-earth worm activities	(88)
78	Manilkara hexandra Roxb.	Flavonoids, alkaloids, and tannins.	Pestalotia sp	Antioxidant, antiulcer, anti-inflammatory, antidiuretic activities	(89)
79	Putranjiva roxburghii Wall.	Triterpenoids, alkaloids, flavonoids.	Aspergillus niger, A. Flavus, Bispore punctata., Curvularia lunata., Fusarium oxysporum and Verticillium sp.	Anti-hyperglycemic, analgesic, antipyretic and anti-inflammatory properties	(90)
80	Spathodea campanulate P Beauv.	Alkaloids, flavonoids, tannins.	Bispore punctata.	Anti-hyperglycemic, anti-malarial, wound healing and antioxidant activities	(91)
81	Syzygium cumini L.	Anthocyanins, ellagic acid, and quercetin.	Clonostachys cylindrospora, Pestalotia sp	Antihyperglycemic, hypolipemiant, antiinflammatory, cardioprotective, and antioxidant activities	(92)
82	Alangium salviifolium (L.f.) Wangerin	Alkaloids, flavonoids, and tannins.	Aspergillus niger, Diaporthe longicolla and Schizophyllum commune	Laxative, astringent, pungent, purgative, alleviates spasms, anthelmintic, emetic, antiprotozoa, hypoglycemic activities	(93)
83	Ziziphus nummularia	Flavonoids, saponins, and tannins.	Aspergillus calidoustus, Microsporum gypseum,	Analgesic, antiinflammatory, antibacterial,	(94)



	(Burm.f.) Wight & Arn.		Penicillium viridicatum, Trichophyton tonsurans,	antiaging, antitumor, and antioxidant properties	
84	Commiphora wightii (Arnott) Bhandari	Triterpenoids and flavonoids.	Diaporthe ampelina,	Astringent, anti-septic, expectorant, aphrodisiac, carminative, anti-spasmodic activities	(95)
85	Acacia Senegal (L.) Willd.	Tannins, flavonoids, and saponins.	Glomus intraradices, G. Fasciculatum and G. Mosseae.	Antioxidant, anti-inflammatory, antibacterial, and lipidemic activities	(96)
86	Lansea coromandelica (Houtt.) Merr.	Tannins, flavonoids, and alkaloids.	Aspergillus flavus, Aspergillus niger, Alternaria alternata and Colletotrichum gloeosporioides	Anti-oxidant, anti-inflammatory, and anti-diabetic activities	(97)
87	Millettia pinnata	Pongamol, karanjin	Aspergillus tubingensis	<u>Antimicrobial and anti-oxidant</u> activities	(98)
88	Tecomella undulata Smith.	Tecomine, tecomelin	Penicillium oxalicum	Antibacterial, antimicrobial, antifungal and anti-termite, immunomodulatory, anticancer, cytotoxic, analgesic, anti-inflammatory, anti-obesity activities	(99)
89	Prosopis cineraria L.	Quercetin, kaempferol, prosopine	Aspergillus, Fusarium and Alternaria spp.	Anticancer, antidiabetic, anti-inflammatory, antimicrobial and antioxidant activities	(100)
90	Boswellia Serreta Roxb.	Boswellic acids	Piriformospora indica	Antimicrobial, antiviral, anticancer, antidiabetic, anti-arthritis, and hepatoprotective activities	(101)
91	Albezia lebbek L. (Benth)	Saponins, flavonoids	Rosellinia sanctae-cruciana	Anti-inflammatory, antispermatogetic, antiandrogenic, anticonvulsant, mast cell stabilizing, antitumour, notepad activities	(102)
92	Rhus cinensis Mill.	Gallic acid, Quercetin	Pyrenochaeta sp. And Blastomyces sp.	Antiviral, antibacterial, anti-	(103)



				diarrhoeal, antioxidant activities	
93	Bahunia variagata L.	Kaempferol, quercetin	Nigrospora sphaerica	Anti-tumour, anti-microbial, anti-inflammatory, anti-goitrogenic, hepatoprotective properties	(104)
94	Bombex Ceiba L.	—	Aspergillus tamari	Stimulant, astringent, haemostatic, aphrodisiac, diuretic, antidiarrheal, cardiogenic, emetic, demulcent, antidysenteric, alterative, and antipyretic	(105)
95	Melia azadirachta L.	Azadirachtin, nimbin	Aspergillus and Penicillium	Antioxidative, analgesic, anti-Inflammatory, insecticidal, rodenticidal, antidiarrhoeal, deobstruent, diuretic, antidiabetic, cathartic, emetic, antirheumatic and antihypertensive activities	(106)
96	Moringa oleifera Lam.	Quercetin, kaempferol, isothiocyanates	Aspergillus flavus	Analgesic, anti-inflammatory, antipyretic, anticancer, antioxidant, nootropic, hepatoprotective, gastroprotective, anti-ulcer, cardiovascular, anti-obesity, antiepileptic, antiasthmatic, antidiabetic activities	(107)
97	Sapindus mukorossi Gaertn.	Saponins (sapindosides)	Aspergillus niger, A. Flavus, Epicoccum nigrum. Penicillium digitatum, Penicillium sp.	Antibacterial, anti-inflammatory, antioxidant, cell proliferation, and skin wound healing properties	(108)
98	Borassus flabellifer L.	Triterpenoids, flavonoids	Curvularia senegalensis	Analgesic and antipyretic effects, anti-inflammatory activity, haematological, biochemical	(109)



				parameters, and immunosuppressant activities	
99	Salvadora oleoides Decne.	Alkaloids, flavonoids	Pseudomassaria sp.	Antiplaque, analgesic, anticonvulsant, antibacterial, antimycotic, cytotoxic, antifertility, deobstruent, carminative, diuretic, astringent activities	(110)
100	Anogeissus pendula Edgew.	Ellagic acid, Quercetin	Mucor varians, Mucor hiemalis, Rhizopus stolonifer, Aspergillus niger and Aspergillus japonicus, Aspergillus flavus, Aspergillus fumigatus, Aspergillus nidulans, Aspergillus versicolor, Aspergillus flavipes, Geotrichum candidum, Penicillium chrysogenum, Penicillium aurantiogriseum, Trichoderma reesei, Trichoderma viride and Chaetomium osmoniae	Anti-oxidant and anti-microbial activities	(111)
101	Annona squamosa L.	Acetogenins	Diaporthe melonis	Antibacterial, anticancer, antidiabetic and anti-inflammatory activities	(112)
102	Bambusa arundinacea (Retz.) Willd.	Flavonoids, lignans	Arthrinium phaeospermum	Anti-inflammatory, antidiabetic, anticancer, antifertility, anti-helminthic, insecticidal, antimicrobia activities	(113)
103	Calligonum polygonoides L.	Flavonoids, tannins	Aspergillus niger	Anti-inflammatory, antioxidant, antifungal activities	(114)
104	Celastrus paniculatus Willd.	Celastrine, paniculatin	Acrocyllindrium sp., Chrysosporium sp., Arthrinium sp., Fusarium sp., Lasiodiplodia sp., Eutypella sp., Aspergillus sp., Nigrospora sp., Arthrobotrys sp., Achlya	Arthralagenic, antirhumatic, aphrodisiac, emetic, laxative, nervine tonic activities	(115)



			sp., Diplodia sp., Uromyces sp., Pestalotiopsis sp., Pyrenochaeta sp., Blastomyces sp., Colletotrichum sp., Penicillium sp., Stachybotrys sp., Botryotrichum sp., Mucor sp., Apophysomyces sp., Drepanopeziza sp., Curvularia sp., Alternaria sp., Verticillium sp.		
105	Leptadenia reticulata (Retz.) Wight & Arn.	-	-	Anti-diabetic, Anti- abortifacient, Anti- tumour, Anti-ulcer, Diuretic, Hepatoprotective, Anti-oxidant, Anti- fungal, Anti- microbial, Lactogenic, Anti-asthmatic, Anti- depressant, Cardiovascular, Prostatic hyperplasia activities	(116)
106	Grewia asiatica L.	Betulinic acid, Quercetin	Aspergillus fumigatus	Antimicrobial, anticancer, antiplatelet and antiemetic activities	(117)
107	Grewia hirsute Vahl.	Tannins, amino acids, carotenoids	Not found	Antidiabetic, antiproliferative, antioxidant, analgesic, antiinflammatory, antimicrobial activities	(118)
108	Holarrhena antidysenterica (L.) Wall. ex A. DC.	Lawsonia (henna)	Pestalotiopsis sp	Anti-diabetic, anti- urolithic, antibacterial activity, anti- haemorrhoidal, analgesic activity, anti-inflammatory, anti-malarial, anti- diarrhoeal, anti- mutagenic, antihypertensive activities	(119)
109	Hibiscus rosa- sinensis L.	Anthocyanins, flavonoids	Phyllosticta dioscoreae	Hypotensive, anti- pyritic, anti- inflammatory, anti-	(120)



				cancer, antioxidant, anti-bacterial, anti-diabetic, wound healing, and abortifacient activities	
110	<i>Sarcopoterium spinosum</i> (L.) Spach	Tannins	<i>Cryptococcus</i>	Anti-diabetic properties	(121)
111	<i>Wrightia tinctoria</i> (Roxb.) R.Br., Mem. Wern.	Alkaloids, flavonoids	<i>Alternaria</i> sp	Analgesic, anti-inflammatory, anthelmintic, antiulcer, antidiabetic, anticancer, antipyretic activities	(122)
112	<i>Capparis brevispina</i> DC.	Glucosinolates, flavonoids	<i>Fusarium oxysporum</i>	Anti-allergic, anti-gout, anti-diabetic and astringent property	(123)
113	<i>Millingtonia hortensis</i> Linn.	Alkaloids, flavonoids	<i>Candida</i> and <i>Cryptococcus</i> , and filamentous, <i>Aspergillus</i>	Antioxidant, larvicidal, Anti proliferate action, Antimicrobial action, and antifungal activities	(124)
114	<i>Grewia damine</i> Gaertn.	Flavonoids, tannins	<i>Aspergillus fumigatus</i>	Anticancer, antioxidant, radioprotective and antihyperglycemic properties	(125)
115	<i>Grewia flavescens</i> Juss.	Alkaloids, flavonoids	<i>Angiococcus disciformis</i>	Antimicrobial, anticancer, antiplatelet and antiemetic activities	(126)
116	<i>Capparis sepiaria</i> L.	Glucosinolates, flavonoids	<i>Alternaria alternata</i> , <i>Paecilomyces maximus</i>	Anti-diabetic and anti-hypertensive activities	(127)
117	<i>Clerodendrum phlomidis</i> L. F.	Alkaloids, flavonoids	<i>Curvularia clavata</i> , <i>C. Lunata</i> , <i>C. Pallescens</i> and <i>Fusarium oxysporum</i>	Anti-inflammatory and anti-nociceptive, anti-oxidant, anti-hypertensive, anticancer, antimicrobial, anti-diarrheal, hepatoprotective, hypoglycemic and hypolipidemic	(128)
118	<i>Lawsonia inermis</i> L.	Lawsonic acid, tannins	<i>Gibberella moniliformis</i>	Antibacterial, Antifungal, Antitumor and antiproliferative, Antiangiogenic,	(129)



				Larvicidal, Antileishmanial, Lousicide, Antimalarial, Hepatoprotective, Wound healing, Anti-inflammatory, Analgesic, Antipyretic activities	
119	<i>Pueraria tuberosa</i> (Will d.) DC	-	-	Anticancer, anticonvulsant, antidiabetic, antifertility, anti-inflammatory, antioxidant, anti-stress, antiulcerogenic, cardioprotective, hypolipidemic, hepatoprotective, immunomodulatory, nephroprotective, nootropic, neuroprotective activities	(130)
120	<i>Wattakaka volubilis</i> (L. F.) Stap.	Withanolides	<i>Aspergillus</i> , <i>Penicillium</i> , <i>Fusarium</i> , <i>Phoma</i> and mycelia sterilia	Antioxidant and antidiabetic properties	(131)
121	<i>Plumbago zeylanica</i> L.	Plumbagin	<i>Alternaria</i> sp	Anti-atherogenic, cardiotonic, hepatoprotective and neuroprotective properties.	(132)
122	<i>Euphorbia nerifolia</i> L.	Diterpenoids, Phenolic Compounds, Alkaloids and Triterpenoids	<i>Fusarium equiseti</i>	Anaesthetic Activity. Wound healing. Anti-inflammatory. Anti-Diarrhea. Antioxidant. Analgesic. Anti-anxiety activities	(133)
123	<i>Solanum surettense</i> Burm. F.	Solasodine	<i>Penicillium roqueforti</i> and <i>Trichoderma reesei</i>	Hepatoprotective, cardioprotective, anti-asthmatic and mosquito repellents activities	(134)
124	<i>Jatropha gossypifolia</i> L.	Diterpenes, Phorbol esters	<i>Aspergillus japonicus</i>	Anti-inflammatory, antimicrobial and insecticidal properties	(135)
125	<i>Barleria prionitis</i> Linn.	Alkaloids, flavonoids, steroids	<i>Dalmania eschscholtzii</i>	Antioxidant, antibacterial, antifungal, anti-inflammatory,	(136)



				anticancer, antidiabetic, antiulcer, hepatoprotective, analgesic, antiamoebic, antihelminthic, antiarthritic, antihypertensive, antiviral properties	
126	<i>Withania somnifera</i> L.	Withanolides (e.g., withaferin A), Alkaloids (e.g., somniferine)	<i>Aspergillus auricomus</i> , <i>Aspergillus thomii</i> , <i>Cercophora caudata</i> , <i>Fusarium equiseti</i> , <i>Melanospora</i> sp.,	Antimicrobial, anticancer, anti-neurodegenerative and immunomodulator activity	(137)
127	<i>Maytenus emarginata</i> Willd.	Triterpenoids, flavonoids, alkaloids	<i>Phyllosticta capitalensis</i>	Anti-microbial, anti-oxidant, anti-cancer, hepato-protective, anti-ulcerogenic activities	(138)
128	<i>Bauhinia racemosa</i> Lam.	Flavonoids, glycosides, tannins	<i>Chaetomium</i> sp., <i>Drechslera halodes</i> , <i>Nigrospora sphaerica</i> , <i>Nigrospora sphaerica</i>	Analgesic, antipyretic, anti-inflammatory and antiplasmodic activities	(139)
129	<i>Jatropha curcas</i> L.	Phorbol esters, Triterpenes, Sterols	<i>Alternaria destruens</i> , <i>Arthrographis</i> sp., <i>Aspergillus alutaceus</i> , <i>Chrysosporium merdarium</i> , <i>Corynespora cambrensis</i> , <i>Dactylaria fusiformis</i> , <i>Emericella nivea</i> , <i>Emericella nivea</i> , <i>Guignardia camelliae</i> , <i>Monocillium indicum</i> , <i>Paecilomyces carneus</i> , <i>Phialophora cinerescens</i> , <i>Vermiculariopsisella</i> sp.	Anti-inflammatory, antimetastatic, antitumor, coagulant and anti-coagulant (dose dependent), disinfectant, antiparasitic, wound healing, insecticidal, pregnancy terminating activity and antidiarrhoeal effect	(140)
130	<i>Adhatoda Vasica</i> L.	Vasicine, vasicinone, alkaloids	<i>Fusarium</i> sp.	Cardiovascular protection, abortifacient, antitubercular, antimutagenic, antiulcer, antiasthmatic activities, hepatoprotective, antibacterial and antitussive activities	(141)
131	<i>Calotropis gigantea</i> (L.) W. T. Aiton	Calotropin, gigantol, calotropagenin	<i>Phaeoramularia calotropidis</i> , <i>Guignardia bidwellii</i> ,	Antimicrobial, anthelmintic, anti-inflammatory,	(142)



				analgesic and antipyretic, anticancer, anti-angiogenic, immunological, antidiabetic, cardiovascular, hypolipidemic, gastroprotective, hepatic protective, renal protective, antidiarrheal, antioxidant, anticonvulsant,	
132	<i>Ricinus communis</i> L.	Ricinoleic acid, Ricinine, Ricin	<i>Aspergillus fumigates</i> , <i>Aspergillus japonicas</i> , <i>Aspergillus niger</i> , <i>Fusarium semitectum</i> , <i>Curvularia pallescens</i> , <i>Phoma hedericola</i> , <i>Alternaria tenuissima</i> , <i>Fusarium solani</i> , <i>Drechslera australien</i> and <i>Aspergillus repens</i> .	Anti-inflammatory, anti-cancer, insecticidal, antioxidant, antimicrobial, antinociceptive	(143)
133	<i>Calotropis procera</i> R. Br.	Calotropin, uscharin, calotoxin	<i>Acremonium kiliense</i> , <i>Acremonium strictum</i> , <i>Cercospora pulcherrima</i> , <i>Cladosporium oxysporum</i> , <i>Diplodina microsperma</i> , <i>Microascus desmosporus</i> , <i>Penicillium sublateralitum</i> , <i>Phaeoramularia calotropidis</i> , <i>Rhodotorula glutinis</i> ,	Analgesic, wound-healing, anti-inflammatory, and antibacterial properties	(144)
134	<i>Carissa carandas</i> L.	Triterpenoids, flavonoids, carissin	<i>Gonatobotryum</i> sp., <i>Kumbhamaya indica</i> ,	Antioxidant, anti-inflammatory, antidiabetic, antimicrobial and antifungal properties	(145)
135	<i>Cassia auriculata</i> Linn.	Anthraquinones, flavonoids, triterpenoids	<i>Penicillium sublateralitum</i> and <i>Phaeoramularia calotropidis</i>	Antidiabetic, hypolipidemic and antioxidant and hepatoprotective	(146)
136	<i>Lantana camara</i> Roxb.	Lantadene a, triterpenoids, flavonoids	<i>Acremonium kiliense</i> and <i>Acremonium strictum</i>	Anti-inflammatory, anticancer, anthelmintic, antipyretic, spasmolytic	(147)



137	Barleria cristata L.	Barlerin, barlerinone, barleriol	Daldivinia eschscholtzii	Anti-inflammatory, antibacterial, antidiabetic, antioxidant, antifungal, hepatoprotective, antiparasitic and antioxidant activity	(148)
138	Dodonaea viscosa L.	Quinones, tannins, flavonoids	Aspergillus niger	Antidiabetic, antimicrobial, insecticidal, antioxidant, cytotoxic, antifertility, wound, anti-inflammatory, analgesic, anti-ulcer, antispasmodic, anti-diarrheal and detoxification effects	(149)
139	Bambusa vulgaris Schrad. ex J.C. Wendl	Silica, flavonoids, lignans	Penicillium oxalicum	Antihyperglycemic, antipyretic, anti-inflammatory, antioxidant, antimicrobial, antiviral, hepatoprotective activities	(150)
140	Leptadenia pyrotechnica (Forssk.) Decne.	Leptadenin, kaempferol, quercetin	Aspergillus fumigatus	Laxative, analgesic, anabolic and astringent, antioxidant, anti-inflammatory, antibacterial, antitumor, hypolipidemic and antiatherosclerotic properties.	(151)
141	Opuntia dillenii Haw.	Betalains, Flavonoids, Phenolic acids	Fusarium sp., Aspergillus niger	Antioxidant, anti-cancer, anti-lipidemic and antimicrobial activity	(152)
142	Tecoma undulata (Sm.) Seem	Quinones, iridoids, flavonoids	Penicillium oxalicum	Anticancer, hepatoprotective, analgesic, antibacterial, antifungal and anti-termite activities	(153)
143	Cryptostegia grandiflora R. Br.	Cardenolides, tannins, flavonoids	Not found	Antimicrobial, antiviral, analgesic, molluscicidal, anti-inflammatory,	(154)



				antioxidative, proteolytic properties.	
144	<i>Cocculus hirsutus</i> L.	Picrotoxin, cocculine, alkaloids	Not found	Anti-oxidant, anti-inflammatory, analgesic, anti-diabetic, anti-cancer, and spermatogenic properties.	(155)
145	<i>Cocculus pendulus</i> (J.R & G. Forst.) Diels.	Alkaloids	Not found	Anti-inflammatory, antiulcer, antifungal, antiparasitic, antiviral, and antibacterial properties	(156)
146	<i>Cryptolepis buehneri</i> Schultes in Roemer & Schultes	Cryptolepine	<i>Phomopsis liquidambaris</i>	Antimicrobial activity	(157)
147	<i>Abrus precatorius</i> L.	Abrin (toxic protein), Glycyrrhizin	<i>Phyllosticta owaniana</i>	Antioxidant and anti-inflammatory activities	(158)
148	<i>Aerva javanica</i> (Burm.f.) <u>Schult.</u>	Flavonoids, tannins	<i>G. Candidum</i> pf005, <i>kwoniella</i> sp. Py016 and <i>cercospora</i> sp. Pm018.	Antimicrobial, antioxidant and QS inhibitory	(159)
149	<i>Cascabela thevetia</i> (L.) H. Lippold	-	-	Anti-oxidant, anti-bacterial, anti-diabetic activities	(160)
150	<i>Nyctanthes arbor tristis</i> Linn.	Nyctanthin, Beta-sitosterol	<i>Aspergillus nidulans</i>	Antiproliferative	(161)
151	<i>Salvadora persica</i> L.	Salvadorine (alkaloid), Fluoride	<i>Alternaria</i> sp.	Anticancer, antioxidant and antimicrobial activities	(162)
152	<i>Tamarix dioica</i> Roxb. ex Roth	Tannins, flavonoids	Not found	Antidiarrheal, spasmolytic, bronchodilator, vasorelaxant, and partial cardiodepressant properties	(163)
153	<i>Salvadora oleoides</i> <u>Decne.</u>	Alkaloids, saponins	<i>Aspergillus</i> sp.JPY2, <i>Aspergillus</i> sp.JPY1 and <i>Phoma</i> sp	Anti-inflammatory, antiulcer, antifungal, antiparasitic, antiviral, and antibacterial properties	(164,165)
154	<i>Capparis decidua</i>	Flavonoids, glucosinolates	<i>Aspergillus niger</i> , <i>A. Flavus</i> , <i>Fusarium</i>	Antidiabetic, anthelmintic, antibacterial,	(166,167)



	(Forssk.) Edge w.		moniliforme, Penicillium sp. And Mucor sp.	antifungal, analgesic, anti-nociceptive, antirheumatic, hypolipidemic, antiatherosclerotic, anti-tumor, anti-giardial, antioxidant, anti-inflammatory, hepatoprotective, and anticonvulsant activities	
155	Dichrostachys cinerea (L.) Wight & Arn.)	Tannins, alkaloids	Aspergillus niger, Choanephora cucurbitarum, Fusarium oxysporum, Fusarium solani, Lasiodiplodia theobromae, Pestalotiopsis spp, Thermomyces lanuginosus and Trichoderma harzianum	Anti-inflammatory, antidiarrheal, anti-analgesic, hepatoprotective, anti-urolithiatic, anti-lice, anti-dandruff activities	(168,169)
156	Euphorbia pulcherrima Willd	Diterpenes, flavonoids	Alternaria alternate EPL-4, Cochloobolus lunatus EPL-18, Fusarium sp. EPL-33, Nigrospora sphaerica EPL-37	Cytotoxic, antibacterial, anticonvulsant, antinociceptive, antioxidant properties	(170)
157	Euphorbia nivulia Buch.-Ham.	Diterpenoids, steroids	Not found	Antimicrobial, wound healing, haemostatic, larvicidal, insecticidal, nematocidal and cytotoxic activity	(171)
158	Prosopis juliflora (Swartz) DC.	Tannins, alkaloids	Piriformospora sp.	Antibacterial, antifungal, anthelmintic, antimalarial and molluscicidal	(172)
159	Acacia jacquemontii Benth	Tannins, flavonoids	Alternaria alternate EPL-4	Analgesic, anti-inflammatory, and antipyretic activities	(173,174)
160	Ipomoea purpurea (L.) Roth.	Ergoline alkaloids	Not found	Antidiabetic, antioxidant, antiproliferative properties	(175)
161	Apluda mutica L.	Flavonoids, triterpenoids	Not found	ANTI-DIABETIC, ANTI-INFLAMMATORY AND ANTIOXIDANT PROPERTIES	(176)



162	<i>Cynodon dactylon</i> (L.) Pers.	Flavonoids, alkaloids	<i>Aspergillus fumigatu</i>	Antibacterial, antimicrobial, antiviral and wound healing properties	(177)
163	<i>Heteropogon contortus</i> (L.) P.Beauv. ex Roem. & Schult.	Saponins, flavonoids	<i>Chaetomium subaffine</i>	Antioxidant, mast-stabilization, anti-inflammatory, sunscreen, broncho-relaxant activities	(178)
164	<i>Boerhavia diffusa</i> Linn.	Boeravinones, flavonoids	<i>Aspergillus fumigatus</i> , <i>Cladosporium sphaerospermum</i> , <i>Colletotrichum</i> sp, <i>Curvularia eragrostidis</i> , <i>Fusarium</i> , <i>Pestalotiopsis guepini</i> , <i>Zygorhynchus</i> sp	Antibacterial activity	(179)
165	<i>Eclipta alba</i> (L.) Hassk.	Wedelolactone, eclipticin	<i>Fusarium thapsinum</i> , <i>Alternaria alternata</i> , <i>Epicoccum sorghinum</i> , and <i>Curvularia lunata</i> .	Antimicrobial, anticancer, hepatoprotective, neuroprotective	(180,181)
166	<i>Baccopa monnieri</i> L. Pennell	Bacosides	<i>Fusarium</i> , <i>Trichoderma</i> , <i>Fomitopsis</i> , <i>Aspergillus</i> , <i>Phoma multirostrata</i> , <i>Alternaria</i> , <i>Myrothecium verrucaria</i>	Anticancer, antimicrobial activities	(182)
167	<i>Evolvulus alsinoides</i> Linn.	Alkaloids, triterpenes	Not found	Hair growth, anxiolytic, syphilis, analgesic and anti-inflammatory activity	(183)
168	<i>Andrographis paniculate</i> (Burm. F.) Nees.	Andrographolide, diterpenoids	<i>Colletotrichum</i> sp.	Anticancer, antidiarrheal, antihepatitis, anti-HIV, antihyperglycemic, anti-inflammatory, antimicrobial, antimalarial, antioxidant, cardiovascular activities	(184)
169	<i>Cassia tora</i> Linn.	Anthraquinones, flavonoids	<i>Epicoccum sorghinum</i> , and <i>Curvularia lunata</i> .	Analgesic, anticonvulsant, antipyretic, antifungal, anthelmint, diuretic, expectorant, laxative activities	(185,186)



170	<i>Crotalaria burhia</i> Buch.-Ham.	Alkaloids, Flavonoids, Tannins, Saponins and Terpenoids	<i>Penicillium</i> , <i>Emericella qinqixianii</i>	Anti-inflammatory, antiviral, antitumor, antimalarial, and analgesic properties	(187)
171	<i>Xanthium strumarium</i> L.	Sesquiterpene Lactones, Flavonoids, Phenolic Compounds, Alkaloids, Alkaloids and Fatty Acids	Not found	Anti-tumor effects, anti-inflammatory and analgesic effects, insecticide and antiparasitic effects, antioxidant effects, antibacterial and antifungal effects, antidiabetic effects, antilipidemic effects	(188)
172	<i>Achyranthes aspera</i> L.	Alkaloids, Flavonoids, Berberine, Fatty Acids, Tannins, and Phytosterols	<i>Eurotium</i> sp.	Purgative, laxative, astringent, diuretic activities	(189)
173	<i>Argemone Mexicana</i> L.	Alkaloids, Flavonoids, Triterpenoids and Phytosterols	<i>Aspergillus</i> , <i>Penicillium</i> , <i>Emericella qinqixianii</i> , <i>Emericella striata</i>	Antifungal, anticancer, antibacterials, antioxidant, antidiabetic, anti-Alzheimer's disease, Antiviral activities	(190)
174	<i>Cannabis sativa</i> L.	Tetrahydrocannabinol, Cannabidiol, Terpenes, Flavonoids and Cannabigerol	<i>Alternaria alternata</i> , <i>Alternaria brassicae</i> , <i>Chaetomium globosum</i> , <i>Cochliobolus lunatus</i> , <i>Eupenicillium rubidurum</i> , <i>Gibberella moniliformis</i> , <i>Penicillium copticola</i> , <i>Schizophyllum commune</i>	Anti-oxidative, anti-hypertensive, anti-inflammatory, anti-diabetic, anti-neuroinflammatory, anti-arthritis, anti-acne, and anti-microbial activities.	(191)
175	<i>Echinops echinatus</i> Roxb.	Alkaloids, Sterols, Flavonoids, Triterpenoids and Steroidal Saponins:	Not found	Antifungal, analgesic, diuretic, reproductive, hepatoprotective, antioxidant, anti-inflammatory, wound-healing, antipyretic, and antibacterial properties	(192)
176	<i>Euphorbia chamaesyce</i> L.	Diterpenoids, phorbol esters, triterpenoids, flavonoids, alkaloids	Not found	Anti-inflammatory, anti-microbial, anti-diarrheal, sedative, analgesic, anti-pyretic, anti-oxidant, anti-asthmatic, anti-tumor,	(193)



				larvicidal, diuretic activities	
177	Swertia chirata	Alkaloids, Flavonoids, Terpenoids, Triterpenoids and Phenolic compounds	Penicillium citrinum	Anti-inflammatory, antioxidant, antitumor, hepatoprotective, antiviral, antimalarial, and antibacterial activities	(194)
178	Euphorbia hirta L.	Diterpenoids, flavonoids, tannins, alkaloids, phenolic compounds	Nigrospora sphaerica Achaetomium sp.	Antibacterial, anti-inflammatory, antimalarial, galactogenic, antiasthmatic, antidiarrheal, anticancer, antioxidant, antifertility, antiamoebic, and antifungal activities	(195)
179	Datura metel L.	Tropane Alkaloids, Flavonoids, Coumarins, Triterpenes, Glycosides, Essential Oils and Saponins	C. Boninense, phomopsis sp., f. Solani, c. Incarnatum, c. Siamense and c. Gloeosporioides	Analgesic, anthelmintic and anti-inflammatory activities	(196)
180	Cissus quadrangularis L.	Ketosteroids, Triterpenoids, Phytosterols, Flavonoids and Calcium Salts	Arthrinium hydei,	Antibacterial and antifungal, antioxidant, anthelmintic, anti-hemorrhoidal, and analgesic activities	(197)
181	Psoralea corylifolia L.	Psoralidin, Neobavaisoflavone, Linalool, Bakuchiol, Psoralen and Isopsoralen	Piriformospora indica, Aspergillus niger, Penicillium citrinum, Alternaria alternata	Anti-inflammatory, antibacterial, antiviral, antioxidant, antitumor, antiosteoporosis, cardioprotective, neuroprotective, and immunomodulatory activities	(198)

RESULT & DISCUSSION

The study revealed a remarkable diversity of medicinal plants within Nahargarh Biological Park. A comprehensive survey identified (181 plants) different species belonging to Leguminosae, Fabaceae, Bignoniaceae, Myrtaceae, Malvaceae, Apocynaceae, Euphorbiaceae moraceae etc showcasing the rich botanical wealth of the region. The findings showed that total 181 different plant varieties were grown in Nahargarh biological park in which 22 herbs, 60 shrubs and 99 trees.

This review study reveals that out of 181 species, only some plant species that is *Psoralea corylifolia* L., *Echinops echinatus* Roxb, *Euphorbia chamaesyce* L, *Xanthium strumarium* L., *Evolvulus alsinoides* Linn.,



Ipomoea purpurea (L.) Roth., *Apluda mutica* L., *Euphorbia nivulia* Buch. -Ham., *Tamarix dioica* Roxb. ex Roth., *Cascabela thevetia* (L.) H. Lippold, *Cocculus pendulus* (J.R & G. Forst.) Diels., *Cryptostegia grandiflora* R. Br., *Cocculus hirsutus* L., *Pueraria tuberosa* (Willd.) DC, *Grewia hirsute* Vahl., *Leptadenia reticulata* (Retz.) Wight & Arn., *Diospyros melanoxylon* Roxb., *Ficus glomerata* Roxb., *Ficus infectoria* L., *Mimusops hexandra* Roxb., *Soyimida febrifuga* Roxb., *Sterculia urens* Roxb., *Balanites aegyptiaca* L., and *Erythrina suberosa* Roxb. have no any fungal species isolate and identified that have bioactive compounds till this current time. Researcher should have to isolate fungus from these plants and identify their bioactive compounds for investigating their different applications and medicinal properties.

CONCLUSION

Different varieties of plants are identified and explore in Nahargarh biological park Kukus Jaipur Rajasthan. These plants have its own medicinal, ethnomedicinal, traditional values. The study highlights the untapped potential for ethnopharmacological research within Nahargarh Biological Park. Investigating the chemical composition of medicinal plants can uncover new avenues for drug discovery and development. Researchers should explore the bioactive compounds present in these plants, considering their potential applications in pharmaceuticals. Researcher should explore the applications of isolated fungus and use this fungus in drug discovery and pharmaceutical industries.

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