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Unrecorded Ethnomedicinal uses of Biodiversity from University Campus Kota

Dr. Shivali Kharoliwal

Assistant Professor Lzebra College Kota, Rajasthan, India kharoliwalshivali76[at]gmail.com

Abstract: A survey was conducted in University campus to review the floristic diversity of Angiosperms along with their medicinal use. The survey included observation and field visit of Kota University campus. a whole of 103 medicinal plants were identified. Most species belonged to Fabaceae followed by Moraceae. The foremost purpose of this survey is to assemble data about Medicinal plants available in campus. This study is concentrated to produce an effective knowledge of medicinal properties of plants so on to cure disease with nonside-effects.

Keywords: Ethnobotany, floristic, indigenous system, medicinal plants

1. Introduction

Vast ethnobotanical knowledge exists in India from ancient time. Since the 1950s the study of ethnobotany has intensified Ethnobotany deals with study and evaluation of plant resources After food and shelter man has developed remedies for curing various diseases. Traditional medicines have been used for thousands of years for treating various diseases. Although flora of Rajasthan has been compiled by various workers, there is increasing demand for herbal medicines. World Health Organisation (WHO) has emphasised the fact that more than 90% of world's population are exclusively dependent upon indigenous and traditional plant knowledge (1, 2). Deforestation, urbanization, industrialization, transmigration, colonization and other developmental activities have threatened not only biological resource but also ethnobotanical knowledge (3). Rajasthan is rich in plant resources. Kota, a city located in southeast of northern state of Rajasthan It is located about 240 kilometres (149 mi) south of the state capital, Jaipur, situated on the banks of Chambal River is also rich in biodiversity. University of Kota is located near Kabir circle. The present study highlights ethnomedicinal plants of Kota university campus.

2. Methodology

In order to determine floristic diversity in the study area we used reconnaissance method and survey was done on foot in different seasons of the year. The study site was divided into

five blocks in such a way that all portions of university campus is covered eastern, western, northern, southern and central part of the study site. At each location quadrats of appropriate size were laid to assess the distribution pattern and plant species were recorded (4, 5, 8). The families were classified according to Benthem and Hooker Classification (1862-1883). Identifications were done with the help of different floras and herbaria of Rajasthan. (6, 7).

3. Results and discussion

In the present study of Kota university campus 73 plant species are reported. Out of 73 plant studied, 63 species belong to dicotyledons and 10 to monocotyledons (Table1). Enumerated plants were dispersed among Leguminoseae (16species), Poaceae (10 species), Asteraceae and lamiaceae (5 species), Apocynaceae (4 species), Amaranthaceae, Acanthaceae, Asclepidiaceae, Meliaceae, Brassicaceae, Solanaceae (2 species) and remaining families (one species in each) were gathered from university campus. All the studied plant species have been arranged alphabetically along with their binomial, family, local name and their medicinal use. After careful screening many species have been recognized as important medicinal plants with various properties.

There is urgent need to conserve traditional medicinal plants as they are widely used in various cultural and religious rites and rituals, this would also help to create database regarding the flora of Kota district

Table 1: List of Angiosperm plant species along with their family, localname, habit and medicinal uses

S.no.	Botanical name	Family	Local name	Habit	Medicinal uses
1.	Abrusprecatorius L.	Fabaceae	Chirmathi, rati	Climber	Cough. cold, Hair growth, demulcent
2.	Acacia auriculiformis (A.Cunn). Benth.	Mimosaceae	Ear leaf acacia	Large tree	Analgesic
3.	Acacia leucophloea (Roxb.) Wild.	Mimosaceae	Ronj	Large tree	Antipyretic, antidote for snake bite, expectorant
4.	Acacia nilotica (L.) Wild. Ex Del.	Mimosaceae	Desi kikar	Large tree	Antimicrobial.antiplasmodial, HIV treatment
5.	Acacia senegal(L.) Wild.	Mimosaceae	Khairi, gum arabic	Medium size tree	Bronchitis, cough, diarrhea, typhoidfever, upper respiratory tract infections
6.	Acacia tortilis(Forssk.) Hayne.	Mimosaceae	Totluskikar,	Large tree	Skin allergy, cough, inflammatory

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Activariante apport L. Amaranthaceae Ultakanta Annual nerb asthma, amemia, jaunchi		A 1 1	A		A 11 1	Haemorrhids, indigestion, cough,
9. Aegie marmelos(L.) Corr. Serr. Rutaceae Belpathar Large tree Dysentery and dis	7.	Achyranthes aspera L.	Amaranthaceae	Ultakanta	Annual herb	asthma, anaemia, jaundice, snakebite
December	8	AdhatodavasicaL.	Acanthaceae	Basaka, Aroosa	Annual herb	Leukoderma, vomiting, heart troubles
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37 Cynodondactylon(L.) Pers. Poaceae Doobghas, Runner herb Laxative, coolant, exp 38	35.	CorchorustrilocularisL.	Tiliaceae	Wild jute	Annual herb	Reduce swelling, nausea
38DaturainnoxiaMill.SolanaceaeDaturaAnnual herbImproves fertility, enhance functions39Delonixregia(Boj. ex. Hook.) Raf.CaesalpiniaceaeGulmoharLarge treeConstipation, inflam40Eleusine indica L.PoaceaeCrowfoot grassHerbAntipyretic age41Euphorbia hirtaL.EuphorbiaceaeDudhiAnnual herbDysentery, jaundice, diges42Evolvulusalsinoides(L.) L.ConvolvulaceaeVishnukranthaAnnual herbLoss of memory, epilepsy43FicusbenghalensisL.MoraceaeBar, BargadLarge treeUlcers, vaginal complain44FicusinfectoriaL.MoraceaePilkhanLarge treeAnti bacterial, anti delated45FicusrelegiosaL.MoraceaepeepalLarge treeSkin complexion, nausea46Furcraeafoetida(L.) Haw.AsparagaceaeMauritius HempPerennial cultivated herbAnti oxidant complexion	36	Coronopusdidymus(L.) Sm	Brassicaceae	Janglihaloon	Annual herb	Asthma, bronchitis
Solanaceae Datura Annual nerb functions	37	Cynodondactylon(L.) Pers.	Poaceae	Doobghas,	Runner herb	Laxative, coolant, expectorant
40Eleusine indica L.PoaceaeCrowfoot grassHerbAntipyretic age41Euphorbia hirtaL.EuphorbiaceaeDudhiAnnual herbDysentery, jaundice, diges42Evolvulusalsinoides(L.) L.ConvolvulaceaeVishnukranthaAnnual herbLoss of memory, epilepsy.43FicusbenghalensisL.MoraceaeBar, BargadLarge treeUlcers, vaginal complain44FicusinfectoriaL.MoraceaePilkhanLarge treeAnti bacterial, anti d45FicusrelegiosaL.MoraceaepeepalLarge treeSkin complexion, nausea46Furcraeafoetida(L.) Haw.AsparagaceaeMauritius HempPerennial cultivated herbAnti oxidant compensation	38	DaturainnoxiaMill.	Solanaceae	Datura	Annual herb	Improves fertility, enhance heart functions
41 Euphorbia hirtaL. Euphorbiaceae Dudhi Annual herb Dysentery, jaundice, digest 42 Evolvulusalsinoides(L.) L. Convolvulaceae Vishnukrantha Annual herb Loss of memory, epilepsy 43 FicusbenghalensisL. Moraceae Bar, Bargad Large tree Ulcers, vaginal complain 44 FicusinfectoriaL. Moraceae Pilkhan Large tree Anti bacterial, anti d 45 FicusrelegiosaL. Moraceae peepal Large tree Skin complexion, nauser 46 Furcraeafoetida(L.) Haw. Asparagaceae Mauritius Hemp Perennial cultivated herb Anti oxidant compensation		Delonixregia(Boj. ex. Hook.) Raf.	Caesalpiniaceae	Gulmohar		Constipation, inflammation
42 Evolvulusalsinoides(L.) L. Convolvulaceae Vishnukrantha Annual herb Loss of memory, epilepsy. 43 FicusbenghalensisL. Moraceae Bar, Bargad Large tree Ulcers, vaginal complain 44 FicusinfectoriaL. Moraceae Pilkhan Large tree Anti bacterial, anti d 45 FicusrelegiosaL. Moraceae peepal Large tree Skin complexion, nauser 46 Furcraeafoetida(L.) Haw. Asparagaceae Mauritius Hemp Perennial cultivated herb Anti oxidant computer						Antipyretic agent
43 FicusbenghalensisL. Moraceae Bar, Bargad Large tree Ulcers, vaginal complain 44 FicusinfectoriaL. Moraceae Pilkhan Large tree Anti bacterial, anti demander 45 FicusrelegiosaL. Moraceae peepal Large tree Skin complexion, nauser 46 Furcraeafoetida(L.) Haw. Asparagaceae Mauritius Hemp Perennial cultivated herb Anti oxidant compensation						Dysentery, jaundice, digestive problems
44 FicusinfectoriaL. Moraceae Pilkhan Large tree Anti bacterial, anti d 45 FicusrelegiosaL. Moraceae peepal Large tree Skin complexion, nausea 46 Furcraeafoetida(L.) Haw. Asparagaceae Mauritius Hemp Perennial cultivated herb Anti oxidant component						Loss of memory, epilepsy, leukoderma
45 FicusrelegiosaL. Moraceae peepal Large tree Skin complexion, nausea 46 Furcraeafoetida(L.) Haw. Asparagaceae Mauritius Hemp Perennial cultivated herb Anti oxidant composition.						Ulcers, vaginal complaints, leprosy
46 Furcraeafoetida(L.) Haw. Asparagaceae Mauritius Hemp Perennial cultivated herb Anti oxidant components						Anti bacterial, anti diabetic
46 Furcraeafoetida(L.) Haw. Asparagaceae Hemp cultivated herb Anti oxidant component	45	FicusrelegiosaL.	Moraceae	peepal		Skin complexion, nausea, vomiting
47 GlinuslotoidesL. Molluginaceae Gandhi-buti Annual herb Anti helminthi	46	Furcraeafoetida(L.) Haw.	Asparagaceae		cultivated	Anti oxidant compounds
	47	GlinuslotoidesL.	Molluginaceae	Gandhi-buti	Annual herb	Anti helminthic
48 Hibiscus rosa sinensis L. Malvaceae Gurhal Small tree Hair loss, inflamm	48	Hibiscus rosa sinensis L.	Malvaceae	Gurhal	Small tree	Hair loss, inflammation
49 IndigoferalinnaeiAli. Fabaceae neel Annual herb Epilepsy, wound s	49	IndigoferalinnaeiAli.	Fabaceae	neel	Annual herb	Epilepsy, wound sores
50 Jatropha curcasL. Euphorbiaceae Danti Small tree cancer	50	Jatropha curcasL.	Euphorbiaceae	Danti	Small tree	cancer
	51			Lantana	Annual shrub	High blood pressure, eczema
52. Leucascephalotes(Roth.) Spreng. Lamiaceae Dadghal, Draun pushpin Annual herb Jaundice, cough,	52.	Leucascephalotes(Roth.) Spreng.	Lamiaceae		Annual herb	Jaundice, cough, cold

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53	LindenbergiaruderalisKuntze.	Scrophulariaceae	Linderbergia	Annual herb	Chronic bronchitis, sore throat
54	MeliaazadirachL.	Meliaceae	Banyan	Large tree	Rodenticidal, insecticidal
55	Melothriamaderaspatana(L.)M.Roem	Cucurbitaceae	Aankhphod	Climber herb	Antidiabetic, larvicidal
56	Murrayakoenigii(L.) Spreng.	Rutaceae	Kadhipatta	Small tree	Snakebite, piles
57	OcimumamericanumL.	Lamiaceae	Nagadbavchi	Annual herb	Rheumatism, renal colic
58.	Ocimum sanctum L.	Lamiaceae	Tulsi	Herb	Bronchitis, asthma, malaria
59	OcimumbasilicumL.	Lamiaceae	Tulsi, sweet basil	Herb	Bronchitis, asthma, malaria, cough
60	OcimumtenuifoliumL.	Lamiaceae	Tulsi, holi basil	Herb	Bacterial infections, malaria, cough
61.	PortulacapilosaL.	Portulacaceae	Lunkhi	Annual herb	Diuresis, analgesia
62.	Saccharum officinarum L.	Poaceae	Ganna	Herb	Haemorrhage, anuria
63.	SaccharumravennaeL.	Poaceae	Sarkanda	Herb	biofuel
64.	Setariaviridis(L.)	poaceae	greenfoxtail	Herb	Diuretic, emollient
65.	Sidacordifolia L.	Malvaceae	Kharinti	Annual herb	Muscle cramp, skindisorder
66.	Sisymbriumirio L.	Brassicaceae	Khoobkalan	Annual herb	Cough and congestion
67.	Solanumsurattense Burm. f.	Solanaceae	Katehli	Annual herb	Fever, diarohhea
68.	Sonchus asper (L.) Gars.	Asteraceae	Dudhi	Annual herb	Menstural and eye problems
69.	Tephrosiaperpurea(L.) Pers.	Fabaceae	Jhojhru	Annual herb	Antihelminthic, antipyretic
70.	ThevetianeriifoliaJuss.	Apocyanaceae	Pila Kaner	Small tree	Emetic, loosen bowels
71.	Tridax procumbens L.	Asteraceae	Sadahari	Annual herb	Anti fungal, insect repellant
72.	Xanthium strumariumL.	Asteraceae	Maskhara	Annual herb	laxative
73.	Zizyphusjujuba Mill.	Rhamnaceae	Ber	Medium size tree	Stimulates apetite

4. Conclusions

Conservation of Medicinal plant is vital to avoid any further loss. Most of the medicinal plants were harvested from wild. Shrubs were dominant growth forms followed by herbs and trees. Depletion of indigenous knowledge among the people of the study area was serious due to disinterest of young generation to gain the knowledge. Finally to conclude this research article will attract the attention of ethno botanist, physiochemist and pharmacologist for further critical investigation of medicinal plants present in the campus.

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