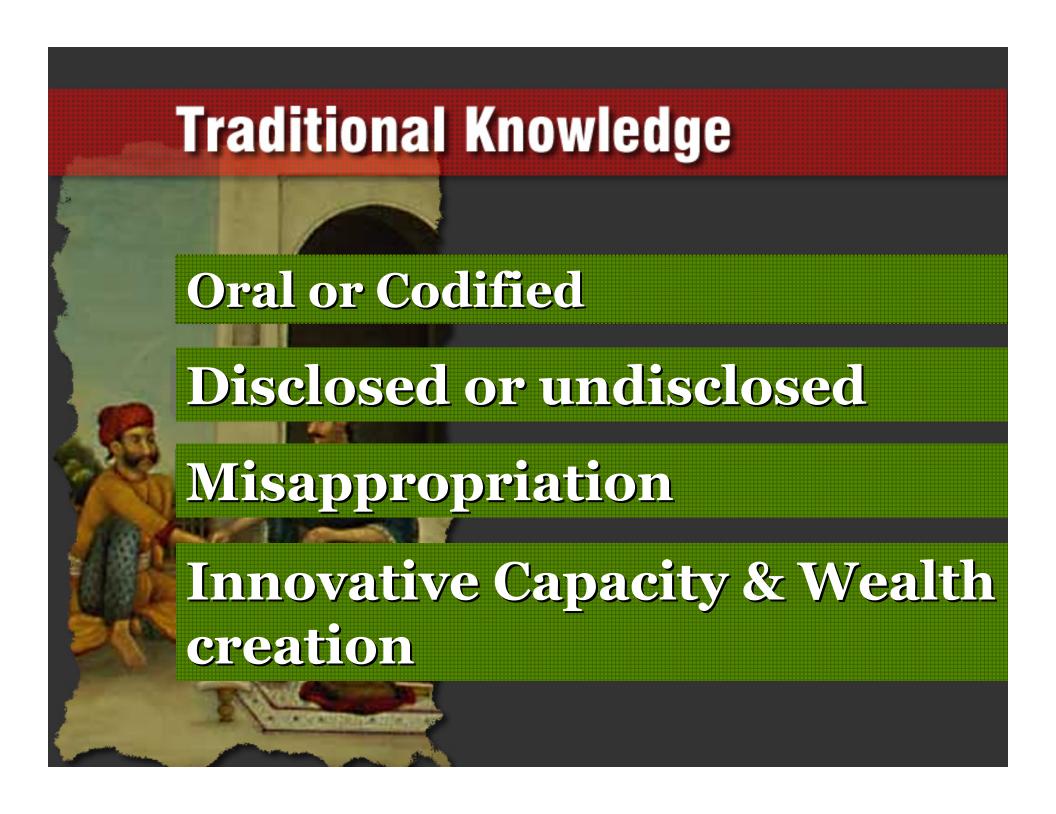
WIPO Regional Seminar on Intellectual Property (IP) and Traditional Knowledge (TK), Genetic Resources (GRs) and Traditional Cultural Expressions (TCEs) Bangkok, Thailand -December 16 and 17, 2009



V K Gupta, Senior Advisor and Director, TKDL, Council of Scientific and Industrial Research, Rafi Marg, New Delhi; E-mail: vkg@csir.res.in



## **TK Databases and Registers**



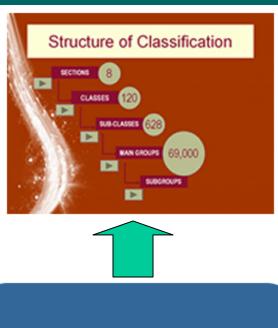
# Nature & Complexities of TK/Biodiversity Documentation Projects

- Identification & Involvement of holder(s), confidence & trust
- Ownership & practical model on sharing of the benefits
- Unequal partnership & Alliance
- Technological and Societal Barriers
- Customary laws, abuse & morality
- Safeguarding vs encouragement of misappropriation
- Disclosed vs undisclosed TK
- Standard & Format

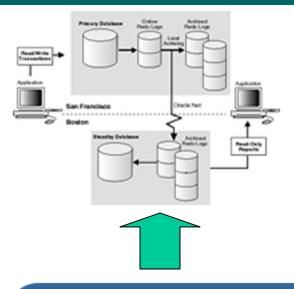
# Databases/ Registries

- Functionalities
  - Different Vocabularies
  - Information exchange
  - Capacity Building
  - Stake holders identification & participation
  - Decentralized functioning

# Classification/Standards Setting up of TK Databases/Registries



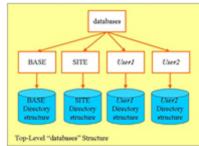
Classification



Database/ Registries Schema

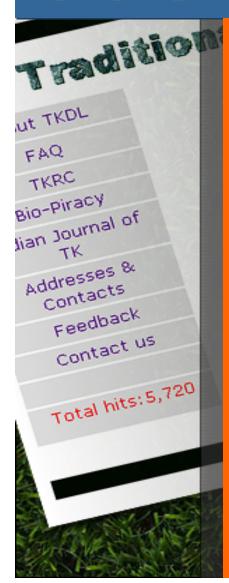
Directories/
Schemes





### TKDL

### OBJECTIVES AND TARGET AUDIENCE



- Prevent Misappropriation of Indian Traditional Knowledge
  - Break Format & Language barriers
- For International Patent Offices only
- Multilingual (French, German, Japanese, English & Spanish)
- Creating new Intellectual Property for promoting Access to Medicines (Since 2008)

# PROTECTING TRADITIONAL KNOWLEDGE

### India

- Turmeric
- Neem
- Basmati

TKDL - TKRC - IPC





# STUDIES ON PATENTS ON MEDICINAL PLANTS

■ March 2000	-	4896
■ March 2003		15000
■ December 2005		35587
■ December 2008		85000
Medicinal Plant Patents / Year		5000
Possible Patents concerning		
Indian Plants / Year		4000
Possible Patents on Indian		
system of Medicine		
on yearly basis	:	2000
Annual average Growth Rate		

200%

between 2000-2008

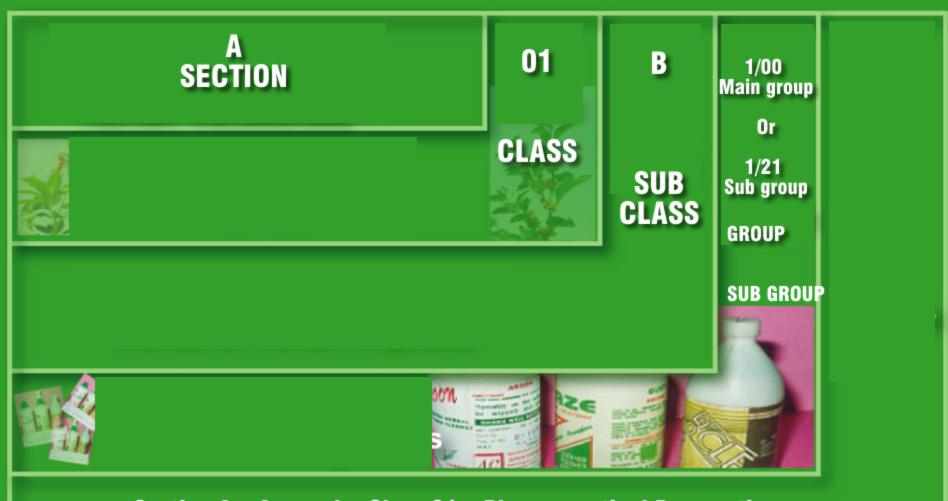
## **IPC & Medicinal Plants**



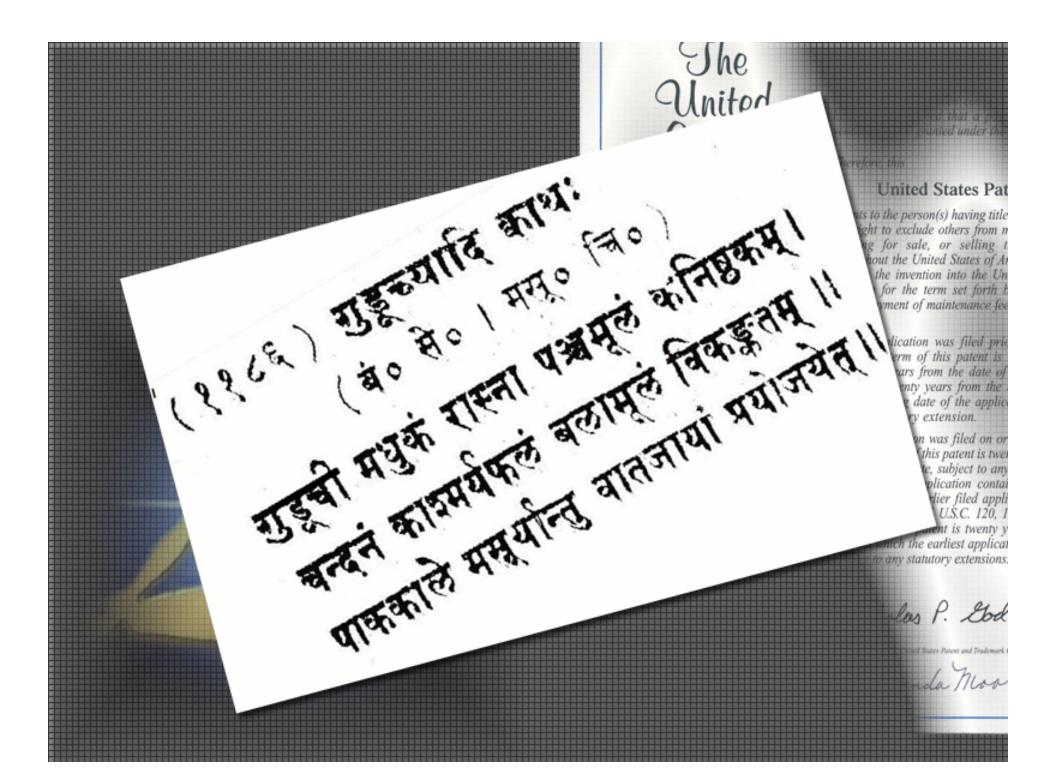
**Materials from Plants** 



# TKRC Classification Symbol



Section A – Ayurveda; Class O1 – Pharmaceutical Preparations Sub-Class B – Based on Animals; Group 1/00 – Based on Animals & their Products; Sub-group 1/21 - Milk



#### **Key Attributes of TKDL**

BP/70 English

**Title of Traditional Knowledge** 

**English** 

**Knowledge Known Since** 

100 years

Guducyadi Kvatha(14)

TKRC CODE: A01A-1/1512, A01A-1/1592, A01A-1/1789, A01A-1/1815, A01A-1/1824, A01A-1/1966,

A01A-1/1988, A01A-1/2039, A01A-1/670, A01A-1/920, A01A-3/19, A01D-19/01

IPCCode: A61K35/78,A61K9/08,A61P31/12

#### **DETAILS OF PROCESS / FORMULATION:**

1.Guducyadi Kvatha(14) is a therapeutic single/compound formulation consisting of useful parts of following ingredient(s)Tinospora cordifolia (Guduci), Glycyrrhiza glabra (Yastimadhu, Klitaka (Substitute)), Pluchea lanceolata (Rasna), Desmodium gangeticum (Salaparni), Uraria picta (Prasniparni), Solanum xanthocarpum (Kantakari, Laksamana (Substitute drugs) (Sveta)), Solanum indicum (Brahti), Tribulus terrestris (Goksura), Pterocarpus santalinus (Rakta candana), Gmelina arborea (Gambhari), Sida cordifolia (Bala), Solanum xanthocarpum (Kantakari, Laksamana (Substitute drugs) (Sveta))

2. Therapeutic composition/formulation is mentioned below:

# **English**

1	Tinospora cordifolia (Guduci)	(Stem)	1	<b>Part</b>
2	Glycyrrhiza glabra (Yastimadhu, Klitaka (Substit	(Root)	1	<b>Part</b>
	ute))			
3	Pluchea lanceolata (Rasna)	(Leaf)	1	<b>Part</b>
4	Desmodium gangeticum (Salaparni)	(Root)	0.2	<b>Part</b>
5	Uraria picta (Prasniparni)	(Root)	0.2	<b>Part</b>
6	Solanum xanthocarpum (Kantakari, Laksamana (Sub	(Root)	0.2	<b>Part</b>
	stitute drugs) (Sveta))			
7	Solanum indicum (Brahti)	(Root)	0.2	<b>Part</b>
8	Tribulus terrestris (Goksura)	(Root)	0.2	<b>Part</b>
9	Pterocarpus santalinus (Rakta candana)	(Heart Wood)	1	<b>Part</b>
<b>10</b>	Gmelina arborea (Gambhari)	(Fruit)	1	<b>Part</b>
11	Sida cordifolia (Bala)	(Root)	1	<b>Part</b>
<b>12</b>	Solanum xanthocarpum (Kantakari, Laksamana (Sub	(Whole Plant)	1	<b>Part</b>
	stitute drugs) (Sveta))			

### **English**

- 3. A composition as described above is formulated as (Decoction / Water Extract)(Kvatha)
- 4. Therapeutic composition mentioned above is prepared by Kvatha Curna/Kvatha: Drugs are cleaned and dried.
- 5. It is useful in the treatment of Small pox(Masurika)

#### LIST OF DOCUMENTS WITH DATE OF PUBLICATION(PRIOR ART):

Nagin Das Chagan lal Saha Bharat Bhaisjya Ratnakar, Gopi nath Bhisakratnen Vol II B. Jain publishers (New Delhi) Ed. Reprint - August 1999.

Tapanese

#### 従来の知識資源のタイトル

Mañjisthādikvāthah (Vrhat) (08)

## Japanese

その後知られている知識

500 years

TKRC Code:

A01A-1/1225, A01A-1/1237, A01A-1/1351, A01A-1/1463, A01A-1/1482, A01A-1/1515, A01A-1/1547, A01A-1/1587, A01A-1/1590, A01A-1/1592, A01A-1/16, A01A-1/1664, A01A-1/1740, A01A-1/1824, A01A-1/1864. A01A-1/1883. A01A-1/1935, A01A-1/1938, A01A-1/1966, A01A-1/2000, A01A-1/2147, A01A-1/237, A01A-1/265, A01A-1/291,

A01A-1/415, A01A-1/429, A01A-1/44, A01A-1/480, A01A-1/488, A01A-1/513, A01A-1/52, A01A-1/530, A01A-1/538, A01A-1/566, A01A-1/60, A01A-1/603, A01A-1/635, A01A-1/741, A01A-1/759, A01A-1/761,

A01A-1/823, A01A-1/880, A01A-1/903, A01A-1/972, A01A-1/989, A01A-2/25, A01A-3/47, A01A-3/9, A01D-1/35, A01D-18/04, A01D-20/25, A01D-21/01, A01D-6/31, A01D-8/07, A01D-8/28, A01D-8/52, A01D-9/07, a01f-1/1

TPC  $\Rightarrow$  K : A61K35/78, A61K9/08, A61K9/14, A61P15/00, A61P17/00, A61P19/00, A61P19/02, A61P19/06, A61P21/00.

#### のプロセス/公式:

1. Ma® ji¾° hedikvethaa (V hat) (08) 次のような有用な構成成分を含む治療的化合物製剤アカネ・カルジフォリア(マンジスタ), カヤツリグサ (ムスタカ), ホラレナ・アンチダイセンテリカ (クタジャ、インドラヤヴァ), タイノスポラ・コルジフォリア (グドゥチ)、モッコウ (クスタ), ジンギベル・オフィシネール (アルドラカ), クレロデンドラム・セッラタム (バランギ), ソレナム・ザントカルパム (カンタカリ、ラクサマナ (代用薬品) (スヴェタ)), アヤメガサ (ヴァチャ), アザジラクタ・インジカ (ニンバ), ウコン (ハリドラ), メギ・アリステタ (ダルハリドラ), カラスウリ・ダイオイカ (パトラ), コウレン (カトゥキ), コンズランゴ・テネシッシマ (ムルワ), エンベリア・ライブス (ヴィダンガ), プロテカルプス (ビジャカ (アサナ)), セイロンマツリ (チタラカ),アスパラガス・レスモサス (サタヴァリ、メダマハメダ(代用薬品)), リンドウ・クッルー (トラヤマッナ、トラヤンティ),キンマ・リンガム (ピッパリ),ホラレナ・アンチダイセンテリカ (クタジャ、インドラヤヴァ),アデトダ・ヴシカ (ヴァサ), タカサブロウ・アルバ (ブリッンガラジャ), ヒマラヤスギ・ヒマラヤスギ (デヴァダル), シサンペロス・パレイラ (パタ). アセンヤクノキ (カディラ), シタン (ラクタ・チャンダナ), オペルクリナ・タルパタム (トリワルタ), クラタエヴァ・ヌルヴェラ (ヴァルナ)、センブリ・シライタ (キラタティクタ)、ソレリア・コリリフォリア (バクキ)、ナンバンサイカチ (アルガワダ)、 ストブラス・アスパル (サクホタカ), センダン・アゼダラク (マハニンバ、 カイドリヤ?), ポンゲミア・ピンネタ (カランジャ、 ナクタマラ、 ウドキリヤ)、トリカブト・ヘテロフィッラム (アティヴィサ)、サヤバナ・ヴェッティヴェロイデス (ハリベラ)、スイカ・コロシンチス (インドラヴァルニ)、ヘミデスマス・インジカス (サリヴァ (ウトパラ・サリヴァ))、 フュマリア・パルヴィフロラ (パルパタ・ベーダ)、ファゴンタ・クレティカ (ダンヴィヤサ)、テルミナリア・チェブラ (ハリタキ)、 テルミナリア・ベッリリカ (ビビタカ)、エンブリカ・オフィシュナリス (アマルキー)

#### 治療的構成/製剤は以下の通り

- アカネ・カルジフォリア (マンジスタ)
- 2 カヤツリグサ (ムスタカ)
- 3 ホラレナ・アンチダイセンテリカ (クタジャ、インドラヤヴァ)
- 4 タイノスポラ・コルジフォリア (グドゥチ)
- モッコウ (クスタ)
- ジンギベル・オフィシネール (アルドラカ)

(根) (茎・塊茎) (ステムバーク) (ステム)

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## STATUS

Discipline	Current Status
Ayurvedic formulations	81,500
Unani formulations	1,09,500
Siddha formulations	12,200

TKDL ready to safeguard 2,03,200 medicinal formulations like Neem and Turmeric in Ayurveda ,Unani and Siddha which are present in 30 million A4 size pages, at International Level

### **Cost/ Effectiveness of TKDL**

#### ■ TKDL Route

No. of A4 Size page information in 5 international languages

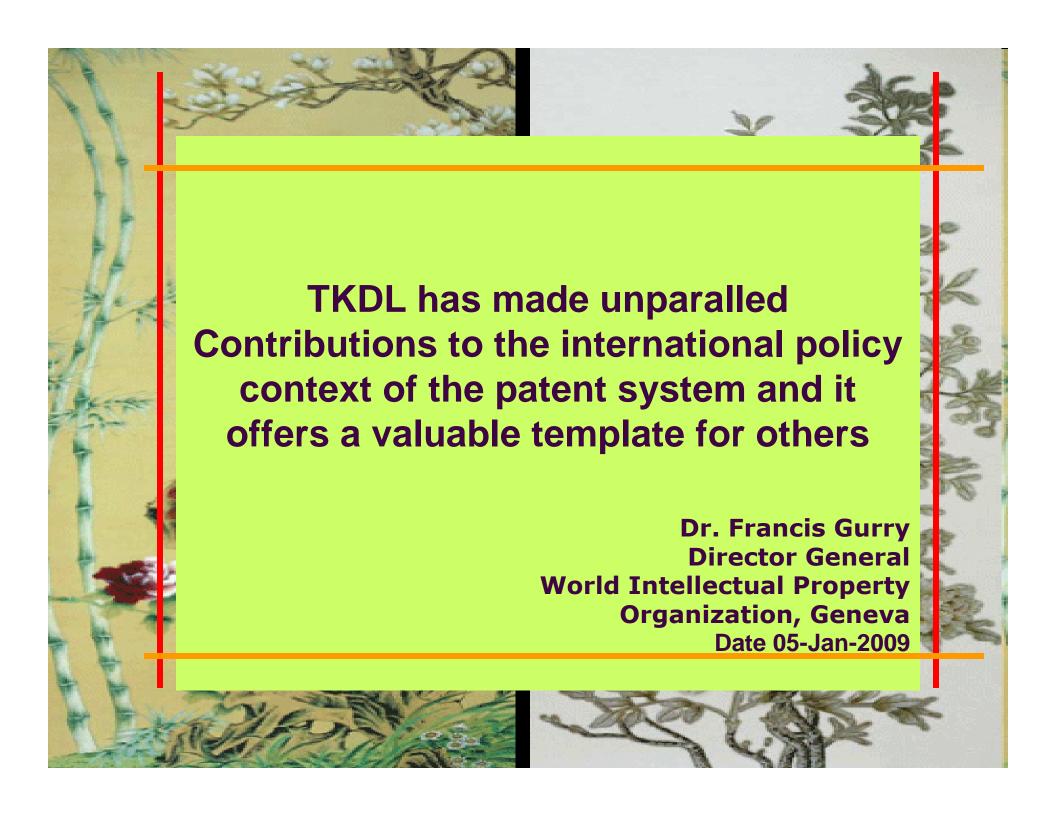
30 Million

Expenditure Incurred

1.4 Million US \$

#### Translation Route

- Skill needed, knowledge of Ayurveda/ Unani/ Siddha/ Sanskrit/ Persian/ Tamil/ German/English/French/Japanese/Spanish/ Modern medicine & Science
- Incase above skill set was available, it would have costed 1.2 billion US
   \$,a team of 5000 and time period of 60 years against the team of 100 and cost of 2.0 million US\$
- TKDL protects 0.2 million formulations based on Neem cases, cost of such protection would be astronomical(200 billion US\$).

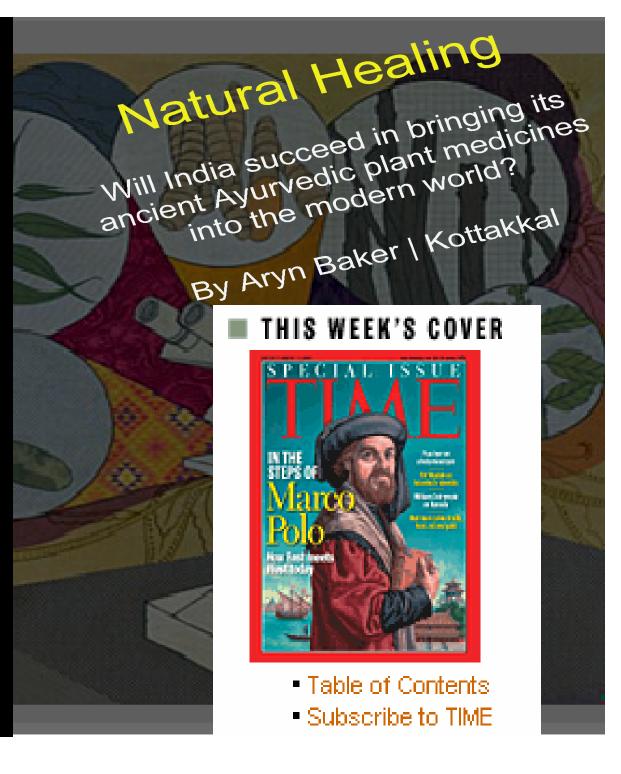




**Recommendation No.5** 

WHO should develop a model framework on replicating Traditional Knowledge Digital Library (India) suitable for adapting to individual Country needs

The information, along with a photographic scan of the relative verse, is then uploaded to an online database and translated into English, French, German, Spanish, Japanese and Hindi. So far, some 140,000 treatments have been entered into the **Traditional Knowledge** Digital Library (TKDL), a \$2 million project launched five years ago to provide a direct link to what is regarded in the patent world as prior knowledge. The first of its kind, the TKDL is serving as a



India makes moves to reclaim heritage from

we are moving to do lead of a recently

piracy' By David September 23, LONDON

## B B C NEWS

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India ado yoga pos By Day (Filed:

"Yoga piracy is becoming your common and says Vinod Gupta, the Gread pola recolding each traditional knowledge and onellegual

BBC NEWSWednesday, 7 December 2005, 13:22 GMT India hits back in 'bio-piracy'

battle By Soutik Biswas, BBC News, Delhi http://news.bbc.co.uk/2/hi/south asia/4506382.stmln a guiet government office in the Indian capital, Delhi, some 100 doctors are hunched over computers poring over ancient medical texts and keying in information.....People outside India are not aware of our immense traditional knowledge wealth VK Gupta, project director .....The mammoth Indian encyclopaedia may finally give alternative medicine the shot in the arm it sorely needs



But, until now, cannot understa

The move is the science Communication and Information Resources, also includes more traditional news and science Communication and Information Resources. of Science Communication and information Resources, also includes more than 130 million pages of ancient Indian texts translated into English, French, German, his pages of ancient Indian texts translated traditional Indian food thousands of Spanish and Japanese. The institute plans to add traditional line proved Arabic and Fersional farming methods - all in an effort to establish the library. architecture and farming methods all in an effort to establish the provention of the land cultural property was least 150 experts have been working and land cultural property. architecture and tarming methods and in an enorth establish the proventing six and india's natural and cultural property. At least 150 experts have director of the last throoties on this is a week for the last throoties on this is a week for the last throoties on this is a week for the last throoties on this is a week for the last throoties on this is a week for the last throoties on this is a week for the last throoties on this is a week for the last throoties on this is a week for the last throoties on this is a week for the last throoties on this is a week for the last throoties on this is a week for the last throoties on this is a week for the last throoties on this is a week for the last through the last t s a week for the last three years on this, says V.K. Gupta, director of the Tor the last three years of the says v.n. Supra, director of the can prevent which we can prevent through which we can prevent the "Now we have a mechanism as a serie of the director of the can prevent the director of the can prevent the can be can prevent the can be can be

## BUSINESS

# **Break with tradition**

Traditional medicine has spent decades in the wings of pharmacology. Now India is pushing it to centre stage, as **K. S. Jayaraman** reports.

we years, the drug industry has been curious about tradecoal methods in expectally the venerable systems of India and China. Now, the ledden poweroment has taken a step that could open the way for greater commence exploitation of its traditions around the world. In the past few years, India has developed an the past new years, todas has developed a hope electronic database known as the Tradetected Knowledge Digital Liberary, Late Lot month, the Indian colored agreed to give paint offices around the world access to the library, to make more than policies are not greated on exist. ing ladian remoders. And the government may soon go one stage further, inviting major international drug companies to constoned with Indian researchers on deriving drug candidates from the library's conducts it hopes to boost the country's public health care in the process.

But the move to share the library's content has durply devided equition in locks, where the knowledge is seen as an important part of the country's cultural and intellectual heretage.

Advocates of charing say that the database, which has been under construction at the National Institute of Science Communication and Information Resources in New Delhi since 2000, could have a major impact on the process of drug discovery. The database has the potential to "slash the cost of drug development, says Viced Gopta, a computer sciential and director of the instibule. "We have a treasure chest of plant based medicines, created by experimenting directly on man for hundreds of years.

Others are not so sare. They worry that India risks losing out by sharing its knowledge with outsiders. Purveyors of traditional medicine feat that

grab control of the information. "It is hard to international companies will digital fo believe that the multivational drug companies agreed t perseve that the amount of the contract of the medicine research in order to premote it," says P. Ram Matchae, research director of Aryposis dys Pharmack, which produces drop based on traditional knowledge in Coumbatore, "Their interest would be conduced to using 8 to develop strengt wanted be contained to using 2 to develop ascending to using 2 to develop.

control." And that would be of little help to Scene also doubt that the information will restry told the blockhouter drops that architects restry years one vaccinement or up that secure value of the database set beginn for. Two makes deep. responses that are active in India -- Prizes and Merck - declared to respect when asked whether the database was of interest to them.

Traditional Indian medicine consists of three main systems, known as Aparreds, Saldha and Usual, Between them they ust about 1,500

medicinal plants, a thin drug formulations. The Digital Library already on 145,000 Scenndation due to be added in the The creation of the

gradual acceptance of For decades, the cou-Soreign protections. panies to sell penel

REPLICATION OF EXPERIMENTS A Nature issue on trial

THE WEATHER FOR TITAN Cloudy with methane drizzle and flash floods

CURRENTS THAT SOOT Yound healing indu

India's database of traditional medicine has MS.000 forms

SPINTRONICS A

IN THIS ISSUE NATURE INSIGHT: LABON A CHIP

A positive spin on GaAs semiconductors

**NATURE JOBS** 



#### IN BRIEF

VACCINE VENTURE Swiss drugmaker Novartis has announced plans to build a \$600-million, state-of-the-art production plant for flu vaccine in Holly Springs, No. Carolina. The plant - more than a third of which will be paid for by the US governm - will be the first in the United States to derive vaccines from cell culture rather the the chicken eggs commonly used at present. The company says its facility is design produce 50 million doses of seasonal flu vaccine annually, and up to 150 million dos avian-flu vaccine if required.

CHINA CRISIS Amnesty International, the human-rights watchdog, has accused Go Yahoo and Microsoft of contributing to 'internet repression' in China by cooperating with the country's authorities. "The apparatus of Internet repression is considered to more advanced in China than in any other country and companies are particularly will to cooperate with the Chinese government," Amnesty says in a report issued on 20 A Yahoo has faced a consumer backlash in the West, after giving the police the identitie of two dissident Chinese writers, who are now in prison.

GREEN FOCUS The Ford motor company has said that it will spend £1 billion (US\$1.9 billion) over six years in Britain on research and development into cleaner engines. The company says that 9,500 engineers will be deployed in the effort. It into to create a version of its most popular car - the Ford Focus - that delivers 70 miles: gallon. The announcement has been welcomed by the government, but unions note to it involves the redeployment of existing resources, not fresh investment.

#### MARKET WATCH



This week, Wood Mackenzie, an Edinburgh-based research and consulting firm, reviews recent trends in biotechnology stocks. Biotech continues to retreat from its high point in February, although the rate of decline has slowed, the Nasdaq biotechnology index is down 4% over the past eight weeks, and 12% since the start of the year. Broader indices are also falling in a volatile market.

Amgen of Thousand Oaks, California. has fared particularly badly, falling 5% over the past eight weeks and 20% so far in 2006. Investors believe there is a growing threat to Amgen's erythropoietin drugs for treating anaemia, which generated \$5.8 billion in sales in 2005 - nearly half of total turnover. Rival Roche of Basel. Switzerland, has a second-generation erythropoietin drug, called CERA, which is likely to reach the market in 2007. And the European Union has cleared

a path for the approval of generic versions of some biological drugs. including erythropoietin.

Amgen is given more 'weight' in the index than any other company, so its losses are an important factor in the overall drop. But many other listed firms have suffered.

Shares in Anadys Pharmaceuticals of San Diego, California, lost twothirds of their value after the company suspended a phase I trial of its hepatitis-C treatment and its chief executive announced his forthcoming departure. Stock prices in another San Diego company, Neurocrine Biosciences, dropped by three-quarter after problems with its insomnia drug candidate, indiplon.

In a period of general market anxiety. biotech shares are particularly vulnerable to bad news. Now, strong second-quarter results will be needed to bolster confidence in the sector.

### Possible Other National TKDL and Indian Technical Cooperation

- \* South Africa
  - High level delegation from Department of Science & Technology visited during Dec., 2003
- \* African Regional Industrial Property Organisation
  - Delegation visited during May June 2004 for replicating TKDL for ARIPO Member States.
- Govt. of Thailand
  - Delegation visited during July 2009 for Joint Workshop between Public Health Department, Thailand & TKDL Unit, CSIR, India.
- \* Govt. of Mongolia
- \* Govt. of Cambodia
- \* Govt. of Malaysia
- Govt. of Indonesia

### **Obligations of Providers & Users of TKDL**

**India's Strategy Non Disclosure Agreement with International Patent Offices** 

# (CCEA has approved access to TKDL for International Patent Offices)

#### Users

- Shall not disclose the content to third party
- Shall utilize for patent search & examiners, can give printouts to patent applicants for citation purposes
- No use other than search & examination
- Will provide non-confidential information received from applicant on usage to provider
- Will give feedback for enhancing the features of TKDL

#### Provider

- Shall provide uninterrupted access
- Training to users (as and when needed)
- Render assistance in search & examination (as & when needed)
- Free to utilize for itself & can grant access to others

### Views of EPO After Access (Feb 2009) to TKDL

- An improved patent granting process at an early stage of patent examinations.
- A unique encyclopedia
- Shedding light on grey areas
  - TKDL is precise and TKRC ensures meticulous documentations
  - Thanks to TKDL, patent examiners can prove exactly when and where a medical treatment became public knowledge

#### United States Patent and Trademark Office

An Agency of the Department of Commerce

SEARCH:			GO
HOW DO I:	- Select an Option -	~	GO

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Contact: Peter Pappas or Jennifer Rankin Byrne Phone: (571) 272-8400 or <u>peter.pappas1@uspto.gov</u>; jennifer.rankin\_byrne@uspto.gov; November 23, 2009

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#### Press Release, 09-30

#### India Grants Access to U.S. Patent Examiners for New Traditional Knowledge Search Tool

**WASHINGTON** – The Commerce Department's United States Patent and Trademark Office (USPTO) today announced that the Government of India has granted the agency's patent examiners access to a new digital database containing a compilation of traditional Indian knowledge. Access to the Traditional Knowledge Digital Library (TKDL) is important for both India and the United States to prevent misappropriation of traditional knowledge.

"The USPTO has long been concerned about attempts to patent traditional knowledge, not only because it may result in an incorrectly granted patent, but also because it removes knowledge from the public domain," said Sharon Barner, Deputy Under Secretary of Commerce for Intellectual Property and Deputy Director of the USPTO.

This database will be an important addition to the growing array of search tools on traditional knowledge from around the world that is already available to USPTO examiners. These tools include dictionaries, formularies, handbooks, and historical or classical works, as well as databases such as the TKDL. USPTO examiners use these tools to help prevent the patenting, and thereby misappropriation, of existing traditional knowledge. A listing of some of these publicly available traditional knowledge tools can be found on the USPTO's Web site at:

http://www.uspto.gov/web/offices/dcom/olia/tradknowledge.html.

"We have urged countries to create, and make available to examiners around the world, digital libraries of their traditional knowledge to prevent erroneous patent grants," Barner said. "India's TKDL is just such a library, and we are pleased that our examiners now have access to it."

The new database, developed jointly by India's Council of Scientific & Industrial Research (CSIR) and the Department of Ayurveda, Yoga & Naturopathy, Unani, Siddha and Homeopathy (AYUSH), includes over 200,000 traditional medicine formulations on Ayurveda, Unani and Siddha comprising 30 million pages. The TKDL contains text-searchable English-language translations of these sources, permitting USPTO examiners to search thousands of years of India's accumulated traditional knowledge. The TKDL also contains translations into French, German, Japanese and Spanish, from these sources, originally written in Hindi, Sanskrit, Arabic, Persian and Urdu.

The misappropriation of traditional knowledge through the mistaken issuance of patents has been a growing concern with the rise of the global economy and the increasing importance of intellectual property. A few high profile cases brought significant attention to this matter, prompting efforts by a number of countries to create digital traditional knowledge databases accessible to patent examiners around the world. If a patent application attempts to claim an invention within the existing traditional knowledge, a patent examiner will reject the application provided they can find evidence proving the prior existence of that knowledge. Searching the TKDL will provide access to just the sort of evidence needed by examiners to establish that proof.



Signing of TKDL Access Agreement at Hall of Flag at the US Chamber of Commerce Washington DC on 23rd Nov 2009

(L-R) Mr. VK. Gupta. Director, TKDL, Prof. Sameer K. Brambchari, DG CSIR, Ms. Sharon Barner, Deputy Under Secretary of Commerce for Intellectual Powers. USPTO and Mr. Aisu Shankar, Secretary. Department of Industrial Policy & Pomotion, GOI.



## Times of India – Press Release

#### **TIMES NATION**

THE TIMES OF INDIA, NEW DELHI THURSDAY, SEPTEMBER 17, 2009

# India foils Spanish co's patent bid for Vitiligo cure

Kounteya Sinha | TNN

New Delhi: India has for the first time ever managed to foil a bio-piracy bid in a record three weeks time.

Thanks to the recently created Traditional Knowledge Digital Library (TKDL), which has till now completed documenting over two lakh medical formulations of Ayurveda, Siddha and Unani to save them from piracy, European Patent Office (EPO) has cancelled its earlier "intent to grant patent" order to a Spanish company on use of melon extract to cure vitiligo (leucoderma) — a disease that causes skin de-pigmentation to almost 65 million people globally.

Interestingly, under India's ancient Unani system of med-

#### **Understanding Disorder**

#### What is Vitiligo?

Vitiligo is a pigmentation disorder in which melanocytes in the skin are destroyed. As a result, white patches appear on the skin in

### Who is affected by vitiligo?

About 65 mn people have vitiligo. Half the people who have vitiligo develop it before age 20

Indian hakeems

to cure

under the Unani system have been using an extract from melon for hundred years



different parts of the body

#### What causes it?

with vitiligo inherit a group of three genes that make them susceptible to depigmentation. Some say vitiligo is a disease in which a person's immune system reacts against the body's own organs or tissues. So proteins called cytokines that are produced within the body alter their pigment producing cells and cause these cells to die

icine, hakeems have for hundreds of years been using melon extract to cure this disease. Michael Jackson was world's most famous vitiligo patient. After studying India's documents available in TKDL which confirmed "evidence of prior art", EPO has decided against granting patent for the anti-vitiligo cream to the Spanish company Perdix group SL.

Earlier patent related challenges made by India lasted years. Among the famous were patent application over neem's anti-fungal properties which took India 10 years to revoke, the patent application on the wound healing properties of turmeric which took three years, and that of Basmati rice against an US-based company which took well over a year.

A health ministry official said: "This is victory for us. TKDL, which has documented and translated knowledge of traditional Indian medicines from Hindi, Sanskrit, Arabic, Persian, Urdu and Tamil to five international languages -English, Japanese, French, German and Spanish - will help in fighting foreign companies and countries from claiming patents over information and practices already available in India." In order to confirm EPO's order, TOI scanned through its website and found that application no. EP1747786 titled, "Natural product in cream with anti-vitiligo (leucoderma) therapeutic properties", was filed by Perdix Euro group SL, Spain, in July 2006.

### Tangible Results of TKDL Access Agreement with EPO

- Normal route of opposition of an international patent (10-15 years)
  - Neem (10 years)
  - Enola Beans (10 years)
  - Monsonto soyabean (13 years)
- TKDL route (Less than 12 Weeks)
  - Anti-Vitiligo Cream (3 week)
  - Anti Cancer Pistacia Vera (1 weeks)
  - Withdrawal of application by Uniliver on Cardio Vascular tonic (3 Weeks)
  - Composition for Heart Disease and Health Products (9 Weeks)

Cont...

### Tangible Results of TKDL Access Agreement with EPO

### • TKDL route (Less than 12 Weeks)

 Method for altering the Metabolism Characteristic of Food Products (11 Weeks)

 Medicaments and food for treatment or prevention of obesity and/or diabetes containing cicer arietinum extract(23 Weeks)

Herbal compositions for treatment of diabetes (21 Weeks)

Use of preparations, purifications and extracts of aloe (19 Weeks)



- Identification of Patent Applications based on India's Ayurveda, Unani & Siddha Systems of Medicine
- Citation from TKDL references through Third Party Observations

# **Traditional Medicine**



Modern Medicine

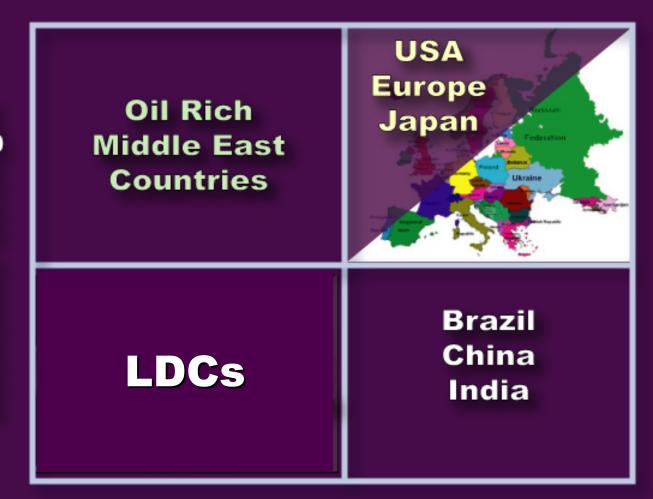
Modern Science



# Diseases and Common Indian Medicinal Plants

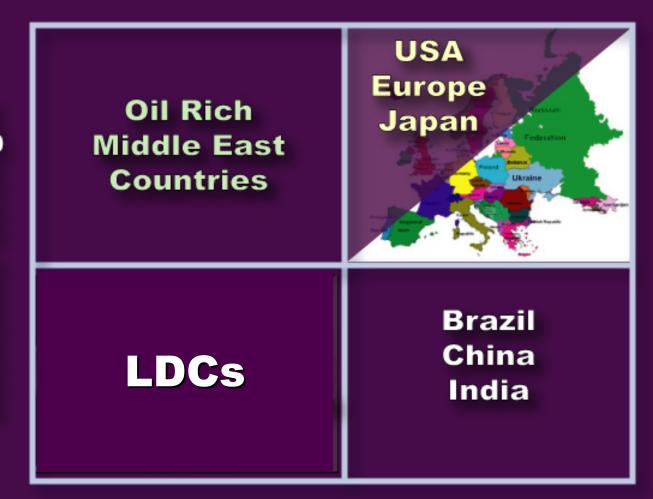
# Malaria

System of Medicine	AYURVEDA	UNANI	SIDDHA	COMMON MEDICINAL PLANTS
NO. of Formulations in TKDL	1587	48	95	Brahmi , Neerpirami, Sapthalai, Indravaruni, Pippali , Srmgika visa/ Vatsanabha
Formulations in TKDL	<u>Aindrirasayanam</u>	<u>Habb-e-</u> <u>bukhar</u>	Sanda Marutha Kuzhamabu	,Sarumam, Acacia arabica,Sambiran ipoondu



**Indigenous S&T Capabilities** 

Traditional Knowledge & Biodiversity Capability



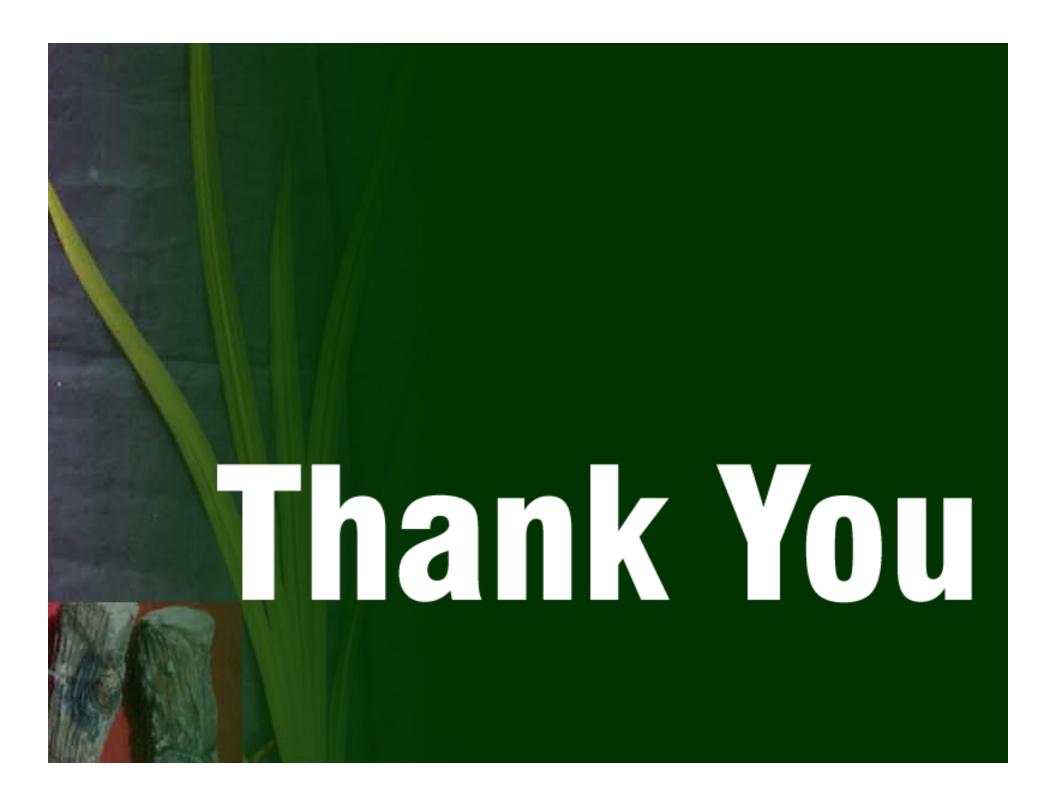
**Indigenous S&T Capabilities** 

Traditional Knowledge & Biodiversity Capability

# Traditional Knowledge & Biodiversity Capability



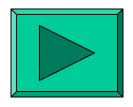
**Indigenous S&T Capabilities** 



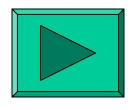


Innovation **International Patent Classification** Trade & Services International Trade Classification (ITC) National Industrial Classification **Economic Aspects** 

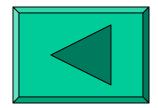
# Technical Proposals on Databases and Registries of Traditional Knowledge and Biological /Genetic Resources



# **Common Data Fields**

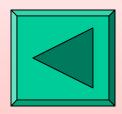


# **Standards**



# Std. WIPO/IGC/4/14 Common Data Fields

- ST-9, common data elements
  - Application Detail
  - IPC
  - Prior Art
  - Abstract or claim
- Biological specific elements
  - Distribution of biological elements
  - Access conditions
  - Arrangement with stake holders
  - Biological Information Details
  - Keywords
  - Utility
  - Bibliographic references
  - Language



# **Standards**

Metadata gives details about data, and is stored in a repository containing detailed description of each data element. Metadata repository permits application of some data management principles independent to its location

XML encodes a description of document in DTP. Permits structured and unstructured information. XML process has the intelligence in processing

**Image & Audio visual format** 

Monochrome Colour Multimedia TIFF/Group IV GIFF/JPEG MPEG



# Standards TKDL India

International Subscriber Dialing  National Industrial Classification		

# **BIBLIOGRAPHY**

# **BOOKS**

Author	Title of book	Volume number	Publisher	Year of Pubn.	Page No.
L.V. Aloskar	Glossary of Indian Medicinal Plants with Active Principles	I (A-K)	NISCAIR	1992	17-18

# **JOURNALS**

Author	Year of	Title of Paper	Jourl.	Vol.	Issue	P.
	Publica-		name	No.	No.	No.
	tion					
H.B. Singh	2004	Scanning Electron Microscopic Studies on the Scopes of Athyrioid ferns from the Western Ghats, South India	Phytomor- phology	54	3&4	215- 222

# Section A – Ayurveda

# Class

- 01 Pharmaceutical Preparations (*Kalpana*)
- 02 Personal Hygiene Preparations
- 03 Dietary (food/food stuff or Beverages)
- 04 Biocides, Fumigatives (*Dhupana, krmighna*)

# Section A Class 01 – Pharmaceutical Preparations (Kalpana)

- Sub-Class
  - 01A Based on *Audbhida* (Plants)
  - 01B Based on *Jangama* (Animals)
  - 01C Based on *Parthiva* (Minerals)
  - 01D Characterised by *Roga* (Diseases)
  - 01E Characterised by *Karma* (Action)
  - 01F Mode of Administration
  - 01G Miscellaneous
- Sub-Class: A01A Pharmaceutical Preparations (Kalpana) Based on Audbhida (Plants)
  - Group A01A 1/00 Whole medicinal plant
     2/00 Parts of medicinal plant used
     3/00 Characterised by Physical form



# CARAKA-SAMHITĂ

### **CHIKITSĀSTHĀNAM**

22

ऐन्द्री मत्स्याख्यको ब्राह्मी वदा ब्रह्मसुवर्चला । विष्वस्यो लवणं हेम शङ्खपुष्पी विषं घृतम् ॥ २४ ॥ एषां त्रियवकान् भागान् हंमसिविविविवा । ह्रौ यवौ तत्र हेमस्तु तिलं दद्याद्विषस्य च ॥ २५ ॥ सिविध्ध पलं दद्यास्त्रेकध्यं प्रयोजयेत् । घृतप्रभूतं सक्षौद्रं जीणं चान्नं प्रशस्यते ॥ २६ ॥ जराष्ट्राधिप्रशमनं स्मृतिमधाकरं परम् । आयुष्यं पौष्टिकं धन्यं स्वरवर्णप्रसादनम् ॥ २७ ॥ परमोजस्करं चैतत् सिद्धमैन्द्रं रसायनम् । नैनत् प्रसहते हत्या नालक्ष्मीनं विषं न रुक् ॥ २८ ॥

श्वित्रं सकुष्ठं जठराणि गुस्माः श्लोहा पुराणो विषमज्वरश्च । मेधास्मृतिज्ञानहराश्च रोगाः शाम्यन्त्यनैनातिबळाश्च वाताः ॥ २९ ॥

( इत्यैन्द्रं रसायनम् )

Aindrī, matsyākhyaka, brāhmī, vacā, brahma-suvarcalā, pippalī, lavaņa, śankhapuṣpī, all in quantity of three barely grains, gold in that of two barley grains, viṣa equal to one sesamum seed and ghee 40 gms,—all should be mixed together and used. After the food is digested, diet containing honey and plenty of ghee should be given.





# Key Attributes of TKDL

BP/1833



Title of Traditional Knowledge Resource

Knowledge Known Since

Aind rīra sāyanam

1000 Years

TKRC CODE:

A01A-1/127, A01A-1/1482, A01A-1/267, A01A-1/40, A01A-1/488, A01A-1/507, A01A-1/52, A01A-1/547, A01A-3/9, A01B-1/23, A01C-1/49, A01C-1/50, A01D-20/16, A01D-20/46, A01D-20/51, A01D-22/02, A01D-22/10, A01D-22/16, A01D-6/31, A01D-6/46, A01D-7/39, A01D-7/44, A01E-1/157, A01E-1/165, A01E-1/187, A01E-1/206, A01E-1/207, A01E-1/31, A01E-1/84

IPC Code:

A61K33/00, A61K33/24, A61K35/12, A61K35/20, A61K35/78, A61K7/48, A61K9/14, A61P1/00, A61P1/04, A61P1/06, A61P1/08, A61P1/12, A61P1/14, A61P1/16, A61P11/04, A61P17/00, A61P17/12, A61P17/16, A61P21/06, A61P25/00, A61P25/08, A61P25/10, A61P25/12, A61P25/18, A61P25/26, A61P25/28, A61P29/00, A61P3/02, A61P31/08, A61P33/00, A61P33/04, A61P33/06, A61P37/04, A61P39/00, A61P39/02, A61P39/04, A61P39/06, A61P43/00

### DETAILS OF PROCESS / FORMULATION:

1. Aindrīrasāyanam is a therapeutic single / compound formulation consisting of useful parts of following ingredient(s): Citrullus colocynthis (Linn.) Schrad. (colocynth), Alternanthera sessilis (Linn.) DC. (sessile joyweed), Bacopa monnieri (Linn.) Penn. (coastal

1. Aindrīrasāyanam is a therapeutic single / compound formulation consisting of useful parts of following ingredient(s): Citrullus colocynthis (Linn.) Schrad. (colocynth), Alternanthera sessilis (Linn.) DC. (sessile joyweed), Bacopa monnieri (Linn.) Penn. (coastal waterhyssop, herb of grace, herb-of-grace), Acorus calamus Linn. (calamus, sweetflag), Cleome icosandra Linn. Syn. C. viscosa Linn. (Asian spiderflower), Piper longum Linn. (Indian Long Pipper), Rock salt, Gold, Convolvulus microphyllus Sieb. ex Spreng. Syn.: C. pluricaulis Choisy / Evolvulus alsinoides Linn. / Clitoria ternatea Linn., Aconitum chasmanthum Stapf & Holmes / Aconitum ferox Wall. ex Ser. (Indian aconite), Clarified butter

2. Therapeutic composition / formulation is mentioned below:

1	Citrullus colocynthis (Linn.) Schrad. (colocynth)	Root	- Powder	120 mg
2	Alternanthera sessilis (Linn.) DC. (sessile joyweed)	Leaf	- Powder	120 mg
3	Bacopa monnieri (Linn.) Penn. (coastal waterhyssop, herb of grace, herb-of-grace)	Whole plant	- Powder	120 mg
4	Acorus calamus Linn. (calamus, sweetflag)	Rhizome	- Powder	120 mg
5	Cleome icosandra Linn. Syn. C. viscosa Linn. (Asian spiderflower)	Root	- Powder	120 mg
6	Piper longum Linn. (Indian Long Pipper)	Fruit	- Powder	120 mg
7	Rock salt		- Powder	120 mg
8	Gold	Calcined drug	- Powder	80 mg
9	Convolvulus microphyllus Sieb. ex Spreng. Syn.: C. pluricaulis Choisy / Evolvulus alsinoides Linn. Clitoria ternatea Linn.	/ Whole plant	- Powder	120 mg

9 Convolvulus microphyllus Sieb. ex Spreng. Syn.: C. pluricaulis Choisy / Evolvulus alsinoides Linn. / Whole plant Powder 120 mg Clitoria ternatea Linn.

10 Aconitum chasmanthum Stapf & Holmes / Aconitum ferox Wall. ex Ser. (Indian aconite) Rhizome Powder 2.4 mg

3. Therapeutic composition mentioned above is prepared as CURNA: (POWDER)

Ingredients mentioned in the formulation are cleaned and dried properly. They are finely powdered and sieved. Where there are multiple ingredients, they are separately powdered and sieved. Each one of them (powder) is weighed separately, and mixed together. In industry, however, all the ingredients are cleaned, dried and powdered together by disintegrators. Mechanical sifters are also used. Salt, sugar, camphor etc., if mentioned are separately powdered and mixed in the end. Asafoetida (Higu) and salt may also be roasted, powdered and then added. Ingredients, which are to be taken fresh, are made into herbal paste, dried, and then added. Sometimes Bhøvanø (trituration) with Svarasa (expressed juice of plants) or Kvøtha (decoction) etc. is given if indicated in the formulation

- 4. A composition as described above is formulated as Powder.
- 5. The dose of above mentioned therapeutic composition is 12 gm.
- 6. Mode of administration Oral administration .
- 7. It is Memory enhancer, Beneficial for life span/ Providing longevity, Nutrient, Beneficial for voice, Complexion promoting, Energy providing/ Promoting Ojas, Antipoison; Alexipharmac; Antidote.
- 8. It is useful in the treatment of Leucoderma/Vitiligo(T), Leprosy and other dermatoses, Diseases of abdomen, Abdominal lump, Enlargement of spleen, Malaria / Intermittent fever, Syncope/Fainting, Epilepsy, Psychosis/Insanity/Mania, Disease with Vata predominance

## LIST OF DOCUMENTS WITH DATE OF PUBLICATION (PRIOR ART):

11 Clarified butter

Cow

48 am

# வயித்தியம்-எா

# சண்டமாகுதக் குழம்பு

மாருகமாங்கொடிவேலி முருங்கை வாகைமாகி கிங்கம்வேண் பெருக்கம்வேர்மேனி, வாருகமா மழிஞ்சிவெட்டி வேம்பும்புக்கு மருக்காடைபொற்கையா அயும்வேனே சாருகமா காப்ப்பாகல் கிழி

முடக்கற்றுறேடு சிற்றோண்டக் காட்டுக்கொட்டை, காருகமாயில கருணே சங்கங்குப்பி கருகொச்சிகமுதாழை வெண்ணெச்சியே. 4%

கொச்சியொடுபூவாசு பெரியகொன்றை நுவலரிபவருமகுத்த காக்கைவேரும், கச்சியாங்கருன்குரை செங்கத்தாரி கரிசாலேவேச் னிரண்டுகற்குழைபாமி, கிச்சையாங்கழற்கொட்டி கருவேல்குள்! நிலவாகைபேய்க்குமட்டி திருகுகள்ளி, கொச்சையா மூக்கொட்டை சதுரக்கள்ளி கொடிக்கள்ளியவுரிகிறு குறிஞ்சாமே.

குறிஞ்சாவாங் கீழ்க்காபினெல்லி குன்றிகுலவும்வேர்வேலியில் நன்பருத்திக்கோவை, சிறிஞ்சான சிற்று முட்டிபோமுட்டி சோர் தைது தவளேக்கண்டங்காலி, சுறிஞ்ஞானவழு தஃவின் சிறுசுஞ் சோறி சுனமானபேய்க்கருடனிடகிழங்கு, இறிவான விராலிமுத் பலம்பத்தாக இடித்துகிழறுலர்த்தி குழித்துபிலம் வாங்கே. 427

வாங்கியே தமிலமொரு பாண்டத்தூட்டு வாகாகப் பேய்க் குமட்டிச்சாறகாழி, தேங்கியே திருகுற்றகள்ளிப்பாலும் செயலாக வகைவகைக்குகாழிவாரு, தீங்கில்லாத் கில்லம்பால் படிதான் कुटजादिकषायः—

कुटजं दाडिमं मुस्तं धातकी बिल्वबासकम् । सोधचन्द्रनपाठाश्च कषायं मधुना पिवेत् ॥३१॥ सामे शूसे चरके च पिष्छास्रावे च शस्यते । कुटजादिरिति ख्यातः सर्वातीसारनाशनः ॥३२॥ बहुशो दष्टफलोऽयम् ॥ ३१-३२ ॥

इन्द्रयव, दाडिमफल के खिलके, मोथा, धाय के फूल, बेल के फल का गृदा, नेश्रवाला, लोध, लाल चन्दन और पाठा इनका क्वाथ बनाकर उसमें शहद मिलाकर पीना चाहिए। यह कपाय आमातिसार, संश्र्लातिसार, रक्तातिसार और पिच्छिल पदार्थयुक्त अतिसार में प्रशस्त है। यह कुटजादि कथाय प्राय: सर्व प्रकार के अतिसार को नष्ट करता है।।३।-३२॥





# Key Attributes of TKDL

AK/590



Title of Traditional Knowledge Resource

Knowledge Known Since

Kutajādikasāyah

200 Years

TKRC CODE:

A01A-1/1592, A01A-1/1598, A01A-1/1892, A01A-1/2130, A01A-1/480, A01A-1/530, A01A-1/635, A01A-1/67, A01A-1/989, A01A-3/19, A01B-1/37, A01D-20/110, A01D-20/41, A01D-20/94, A01D-7/14, A01D-7/40, A01D-7/60, A01F-1/1

IPC Code:

A61K35/64, A61K35/78, A61K9/08, A61P1/06, A61P1/12, A61P1/14, A61P1/16, A61P1/18, A61P17/00, A61P17/02, A61P29/00, A61P31/00, A61P33/04

### DETAILS OF PROCESS / FORMULATION:

1. Kutajādikaṣāyaḥ is a therapeutic single / compound formulation consisting of useful parts of following ingredient(s): Holarrhena antidysenterica (Roxb. ex Flem.) Wall. ex DC. (tellicherry bark), Punica granatum Linn. (pomegranate), Cyperus rotundus Linn. / Cyperus scariosus R. Br. / Cyperus arundinaceum Baker (chaguan humatag, cocograss, kili'o'opu, nutgrass, pakopako, purple nutsedge), Woodfordia fruticosa (Linn.) Kurz., Aegle marmelos Correa ex Roxb. (Indian bael), Coleus vettiveroides K.C. Jacob / Valeriana jatamansii Jones Syn.: V. wallichii DC., Symplocos racemosa Roxb. (sweetleaf, symplocos), Pterocarpus santalinus Linn. f. (red sandal wood), Cissampelos pareira Linn. (pareira brava), Honey

2. Therapeutic composition / formulation is mentioned below:

3. Therapeutic composition mentioned above is prepared as KVĀTHA :(DECOCTION)

Kvātha (decoction) is prepared by boiling powdered plant material with required quantity of water.

A specific quantity of water is retained after boiling, which is then filtered to obtain Kvātha. It is also called Sṛta, Niryūha and Kaṣāya.

- \* Prakşepadravya æ The fine powder of some fragrant and other ingredients like honey, clarified butter etc. is added to kvatha, which is called Prakşepadravya.
- 4. A composition as described above is formulated as Decoction / Water extract.
- 5. The dose of above mentioned therapeutic composition is 24-48 gm.

10 Honey



12 gm

- 6. Mode of administration Oral administration .
- 7. It is useful in the treatment of Diarrhoea with predominance of Ama, Acute diarrhoea, with Colic, Blood dysentery, Acute diarrhoea, with Slimmi, Discharge, and All types, Acute diarrhoea

### LIST OF DOCUMENTS WITH DATE OF PUBLICATION (PRIOR ART):

Govinda Dāsa

Bhaişajya Ratnāvalī - Edited by Rajeshvaradutta Shastri, Translated by Ambikaduttashastri : Chaukhamba Sanskrit Sansthan, Varanasi, Edn. 14th, 2001. [This book contains back references from 1000 B.C.to 18th century]

prior art

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هوارس تبواج اليف عليه معلونان جن المنظمة المن

# 312 ஆவியளிக்கும் அமுதமுறைச் சுருக்கம்

(5) குட சப்பாலே, அதிவிடையம், கோரைக்கிழங்கு, சாதிக் கீர்ய், கேக்கு, அபின், கஞ்சா, கழற்சிப்பருப்பு, இலவம் பிசின், சீர்கம், மாங்கொட்டைப்பருப்பு, வில்வப்பழம் இவைகளே சம என்ட்யாய் எலுமிச்சம்பழச் சாற்முலாட்டி கழற்சி அளவு உருண்டை செய்து தேனில் கொடுக்கத் திரும்.

# रसतन्त्रसार व सिद्धप्रयोगसंग्रह द्वितीय खण्ड

प्रमेह

३७२

# १२. मधुमेह दमन चूर्ण।

प्रवान गुड़मार ८ तोले, बिनोले की मींगी ४ तोले, जामुन की गुठलियों की मींगी ४ तोले, सूखे बिल्वपत्र ६ तोले तथा शुष्क निम्बपत्र २ तोले लें। बिधि-सबको कूट पीस-कपड़छन चूर्ण बनाकर शीशी में भर लें। मात्रा-२ से ३ माशे तक, जल के साथ दिन में २ समय सेवन करें। जपयोग-इसके सेवन से मधुमेह रोग के कारण उत्पत्र होती रहने वाली शर्करा पर अति शीध काबू हो जाता है, चाहे वह शर्करा केवल मूत्र में ही उत्पन्न हुई हो अथवा उसकी उपस्थित रक्तान्तर्गत भी हो गई हो। इसके अतिरिक्त यह अग्न्याशय और यकृत् के विकारों को दूरकर मधुमेह का दमन भी करती है।

सूचना-यदि वसन्त कुसुमाकर रस के सहपान रूप से इस चूर्ण का प्रयोग किया जाये तो मधुमेह रोग में निश्चित लाभ होने की आशा है।





# Key Attributes of TKDL

RS21/437



Title of Traditional Knowledge Resource

Knowledge Known Since

Madhumeha Damana Curna

50 Years

TKRC CODE:

A01A-1/1900, A01A-1/265, A01A-1/67, A01A-1/927, A01A-1/946,

A01A-3/9, A01C-1/76, A01D-16/02, A01F-1/1

IPC Code:

, A61K 131/00, A61K 36/00, A61K 36/185, A61K 36/27, A61K 36/58, A61K 36/61, A61K 36/75, A61K 9/14, A61P 3/10, A61P 5/00, A61P 5/48, C01B 5/00

### DETAILS OF PROCESS / FORMULATION:

1. Madhumeha Damana Curna is a therapeutic single / compound formulation consisting of useful parts of following ingredient(s): Gymnema sylvestre (Retz.) R.Br. ex Schult. (meṣaṣṛmgī, madhunāṣinī) (miracle fruit), Gossypium herbaceum Linn. (kārpāṣa) (Levant cotton), Syzygium cuminii (Linn.)Skeels (jambū) (jambolan plum, Java plum, kavika ni India, mesegerak), Aegle marmelos Correa ex Roxb. (bilva) (Indian bael), Azadirachta indica A. Juss. (nimba) (neem)

2. Therapeutic composition / formulation is mentioned below:

1 Gymnema sylvestre (Retz.) R.Br. ex Schult. (meşasımgī, madhunāsinī) (miracle fruit)

Leat

96 gm

2 Gossypium herbaceum Linn. (kārpāsa) (Levant cotton)

Seed

48 gm

3 Syzygium cuminii (Linn.)Skeels ( jambū) (jambolan plum, Java plum, kavika ni India, <sub>Endosperm</sub> mesegerak)

48 gm

4 Aegle marmelos Correa ex Roxb. (bilva) (Indian bael)

Leaf -Non-unctuous / Dry / 72 gm

5 Azadirachta indica A. Juss. (nimba) (neem )

Leaf -Non-unctuous / Dry / 24 gm

3. Therapeutic composition mentioned above is prepared as CURNA: (POWDER)

Ingredients mentioned in the formulation are cleaned and dried properly. They are finely powdered and sieved. Where there are multiple ingredients, they are separately powdered and sieved. Each one of them (powder) is weighed separately, and mixed together. In industry, however, all the ingredients are cleaned, dried and powdered together by disintegrators. Mechanical sifters are also used. Salt, sugar, camphor etc., if mentioned are separately powdered and mixed in the end. Asafoetida (Higu) and salt may also be roasted, powdered and then added. Ingredients, which are to be taken fresh, are made into herbal paste, dried, and then added.

Sometimes Bhavana (trituration) with Svarasa (expressed juice of plants) or Kvatha (decoction) etc. is given if indicated in the formulation.

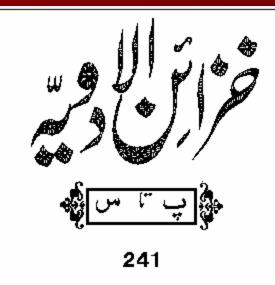
- 4. A composition as described above is formulated as Powder (cūrna).
- 5. The dose of above mentioned therapeutic composition is 2-3 gm.
- 6. It is given with adjuvant of Water (jala/udaka) .
- 7. Mode of administration: Oral administration (ausadhi pāna).
- 8. Time of administration 2 Time(s) per day .
- 9. It is useful in the treatment of Diabetes mellitus (madhumeha)

### LIST OF DOCUMENTS WITH DATE OF PUBLICATION (PRIOR ART):

Rasatantrasārah Evam Siddhaprayogasamgrahah; part II; Krishan Gopal Ayurveda Bhawan; Edn 8th; 1990 [This book contains back references from 1000 B.C. to 20th century]

prior art

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مرض فریابیلین مامن سے خشک دیوں کا سفوف بائی گرین سے بندر وگرین تک یا اسکے سسیال رسبا کوا کمب فرام سے و و ڈرام کک کی مقدار مین ان تہن مرتبہ کھلانا بنایت مفیدسیہ



- Taxonomic Information, citation, synonyms, vernacular names, habitat, geographical information
- Morphological Information
- Cytological Information
- Germplasm Information
- Phytochemistry
- Pharmalogical Information
- Pharmacognostical Information
- Toxicology
- Utilization



Zoom 100%

# COMPONENTS OF BIODIVERSITY DIGITAL LIBRARY

KINGDOM....Plantae CLASS....Magnoliopsida (Dicotyledons) FAMILY....Scrophulariaceae GENUS....Bacopa Aubl. SPECIES....Bacopa monnieri (Linn.) Penn.

Citation: in Proc. Acad. Nat. Sci. Philad. 98:94, 1946;

Santapau in RBSI. 16(1): 201, 1953.

Status: Abundant known Since: 1756

TKDL TKRC: Ploidy level: Basic No.:

Chromosome No.:

### SYNONYMS

LYSIMACHIA MONNIERI LINN. .... Cent. Pl. 2:9, 1756. MONIERA CUNEIFOLIA MICHX. .... Fl. Bor-Amer. 2:22, 1803 (Monnieria);

### **VERNACULAR NAMES**

English .... Water hyssop Hindi .... Jalnim, Brahmi; Neem-jal; jal-lep.

Kannada .... Niru brahmi Malayalam .... Nirbrahmi Marathi .... Nirbrahmi Bengali .... Brihmi-sak

Sanskrit .... Nira-Brahmi, Manduki

Tamil .... Nirbrahmi,

Telugu .... Sambrani chettu

### MORPHOLOGY

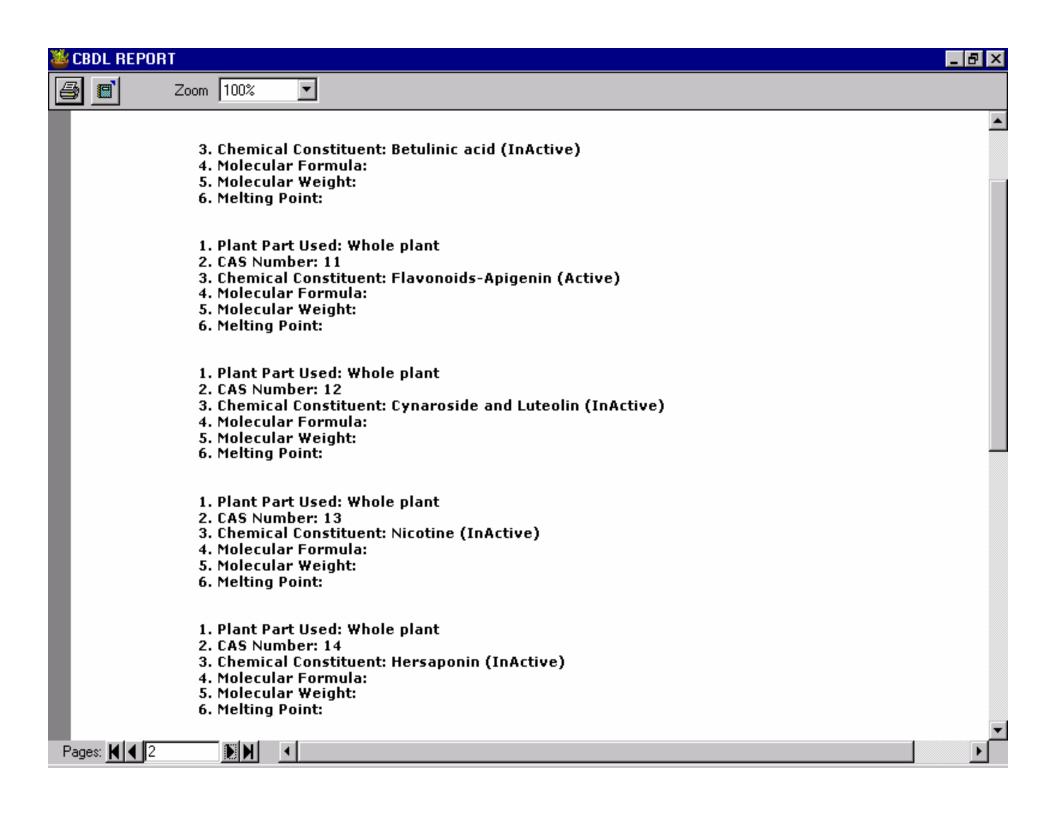


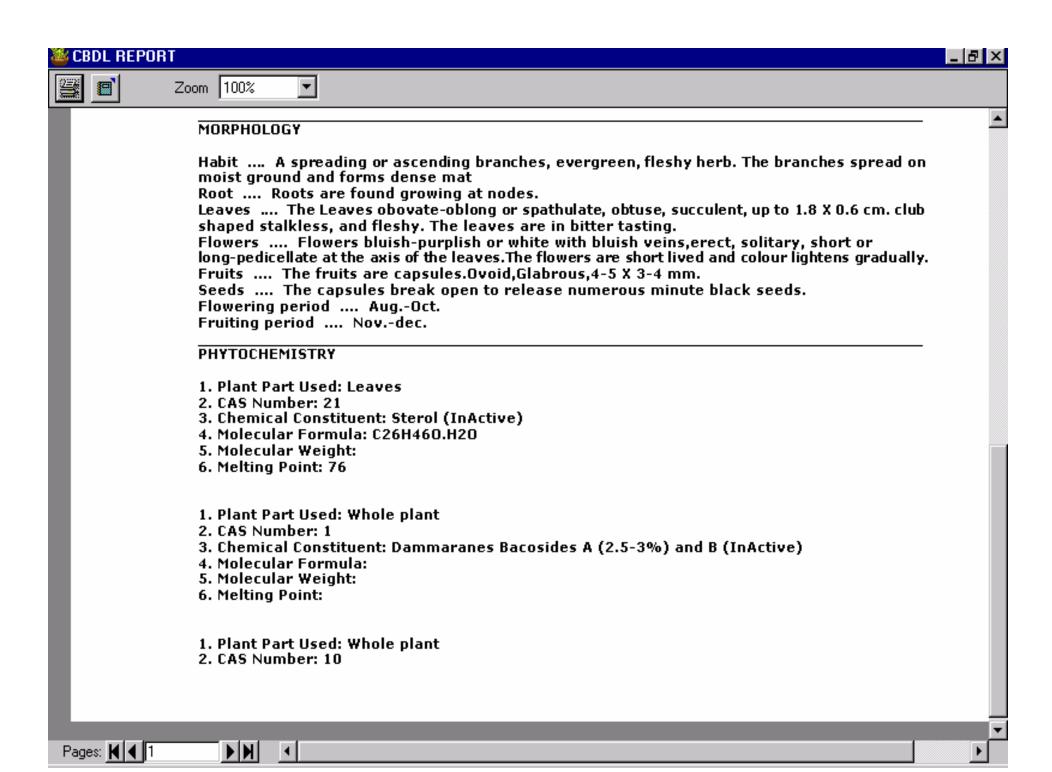


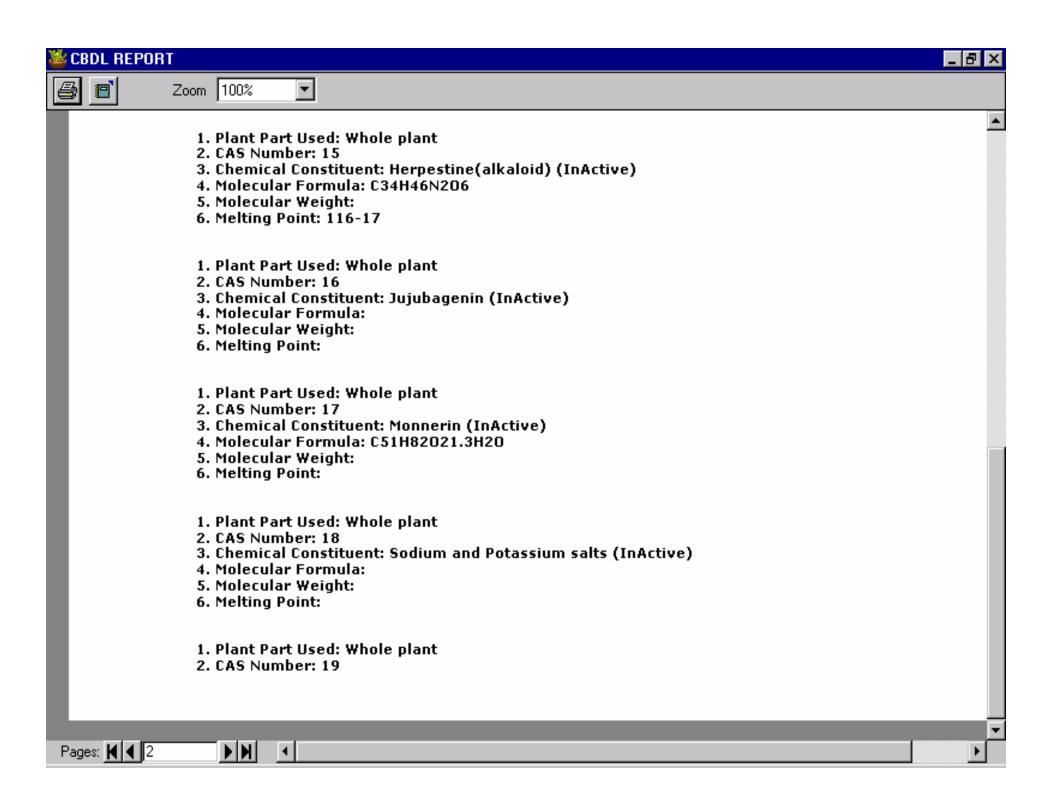


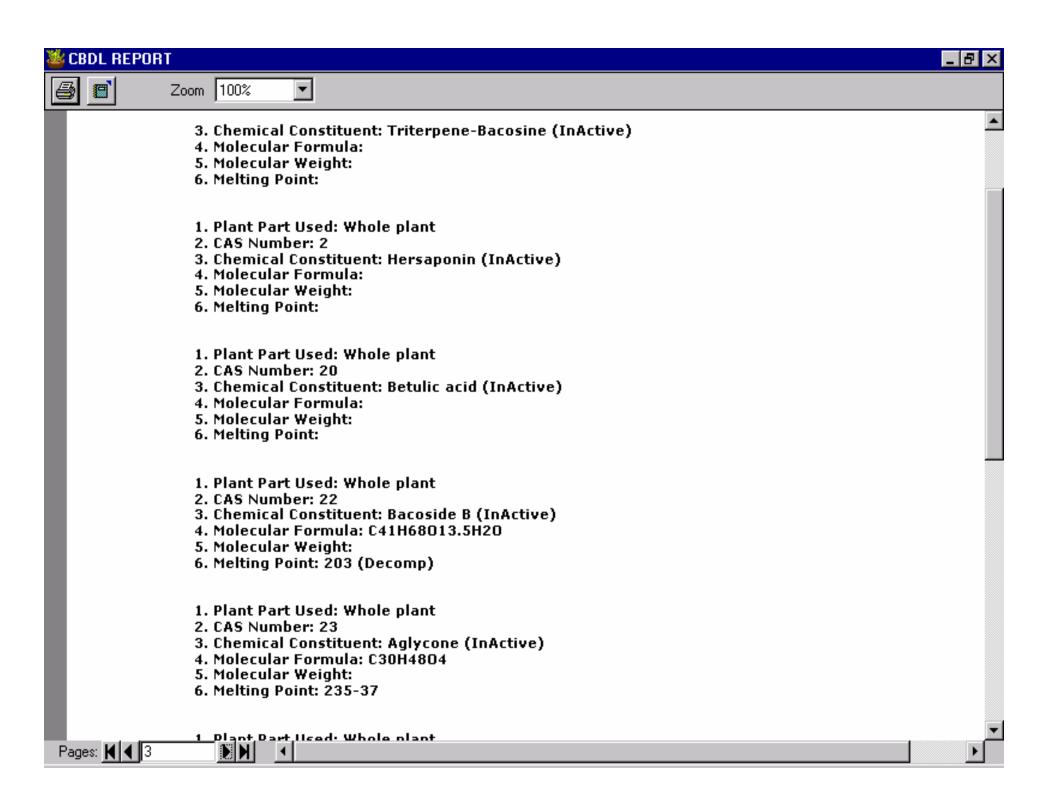


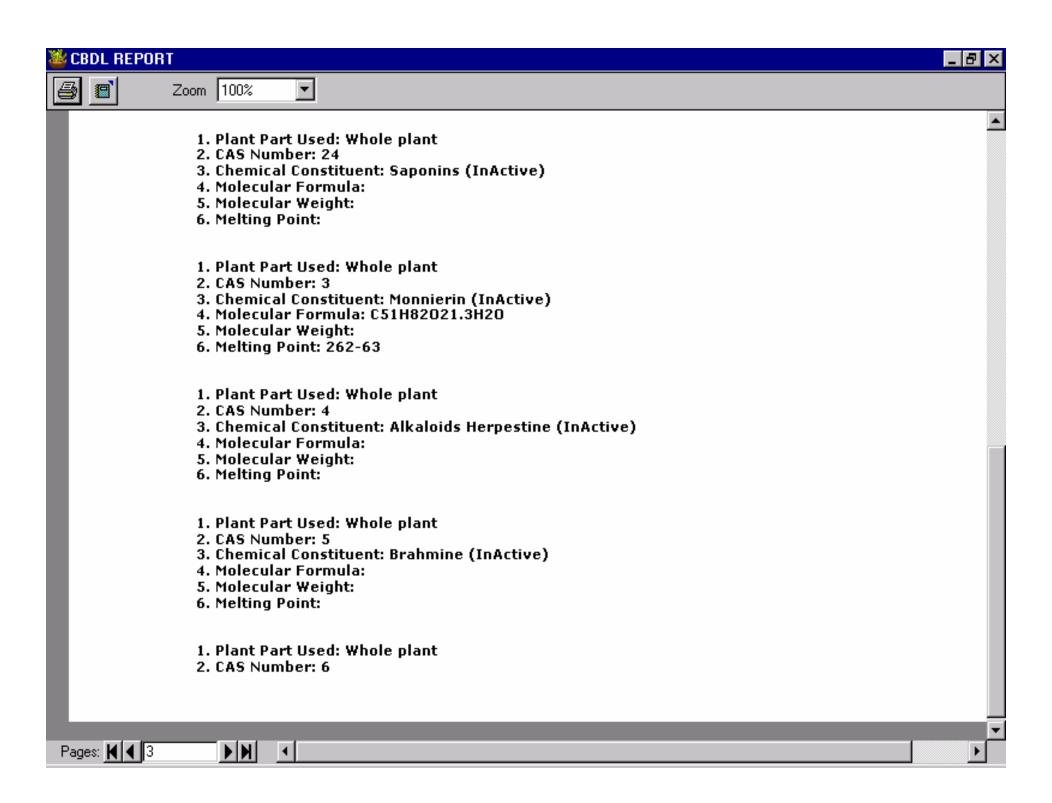


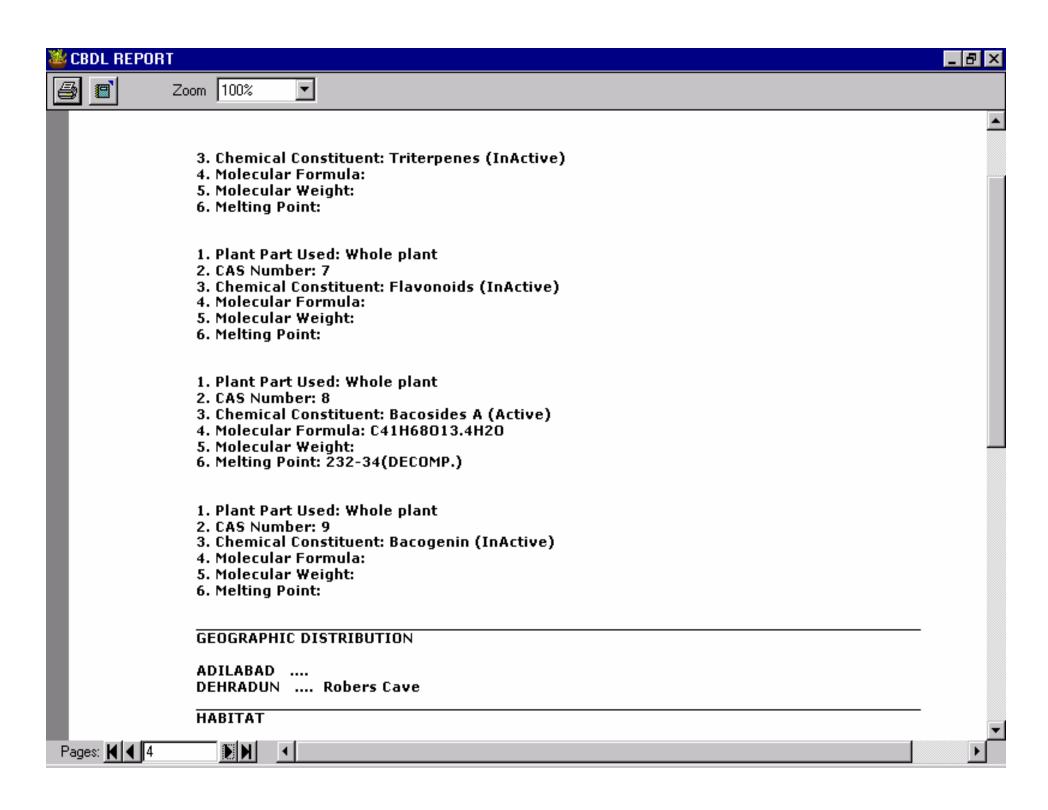


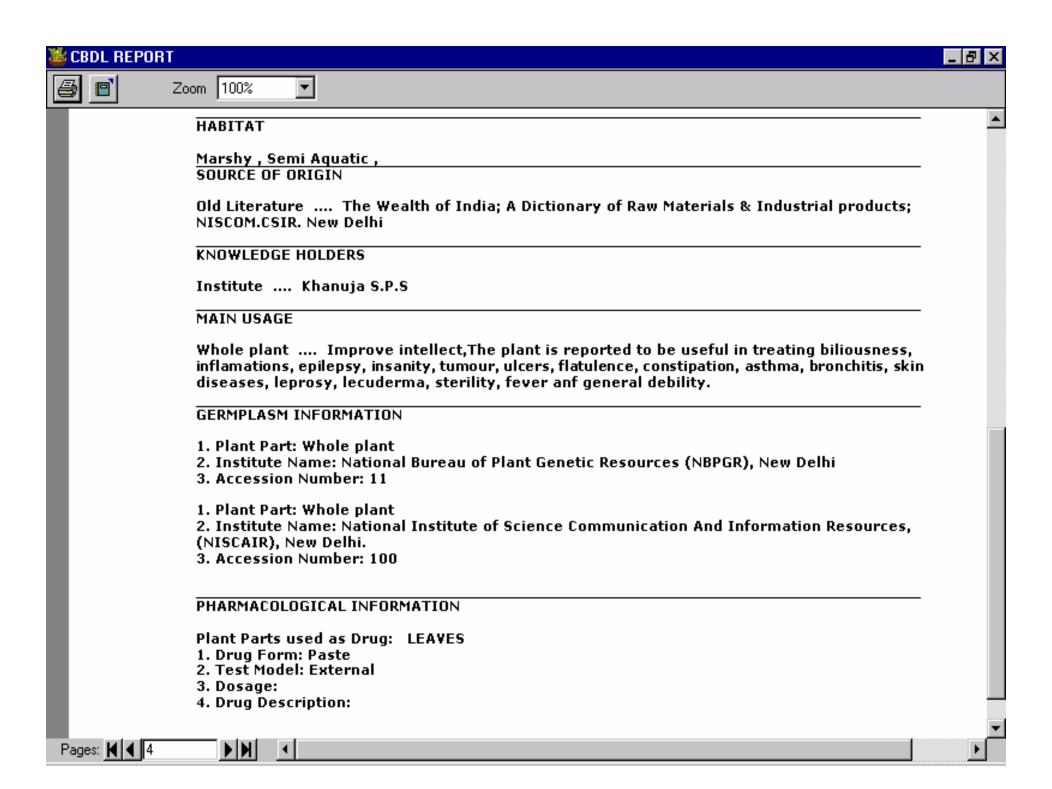


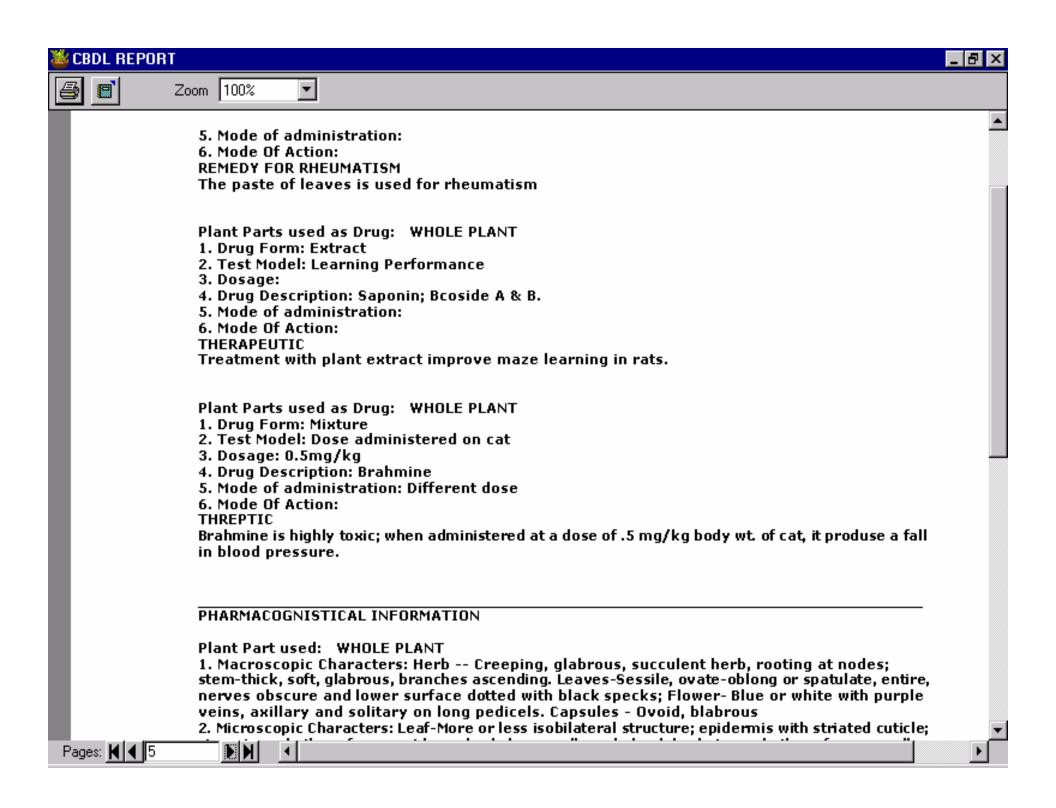


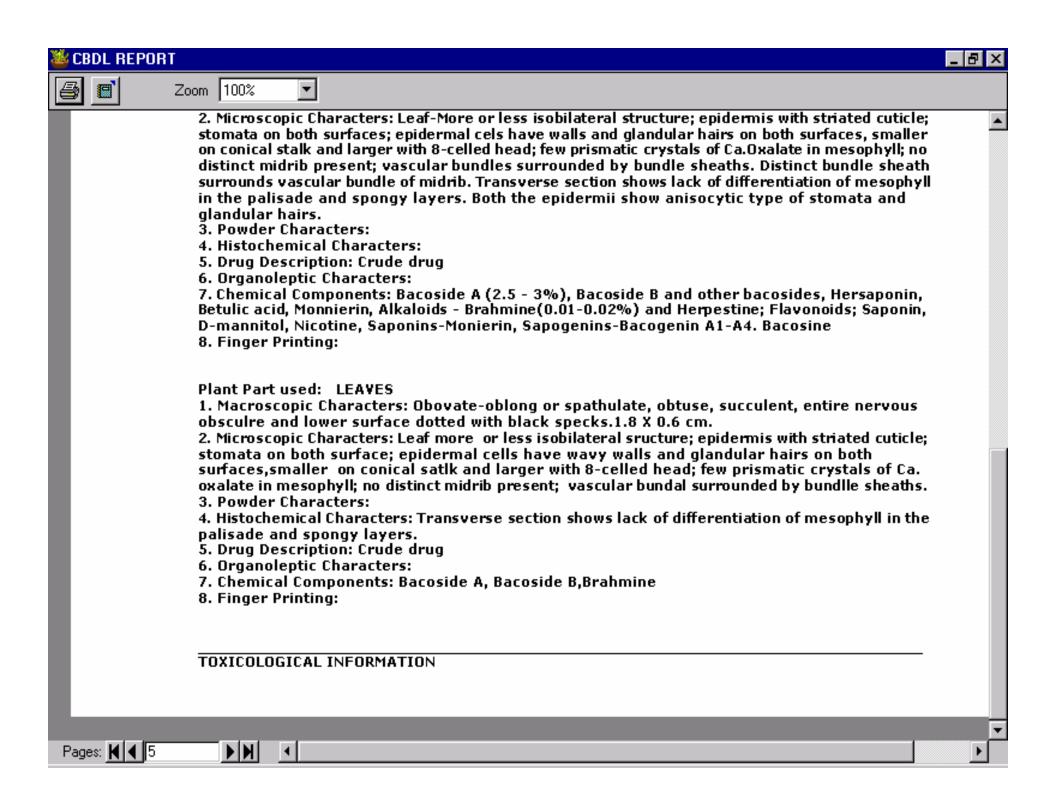


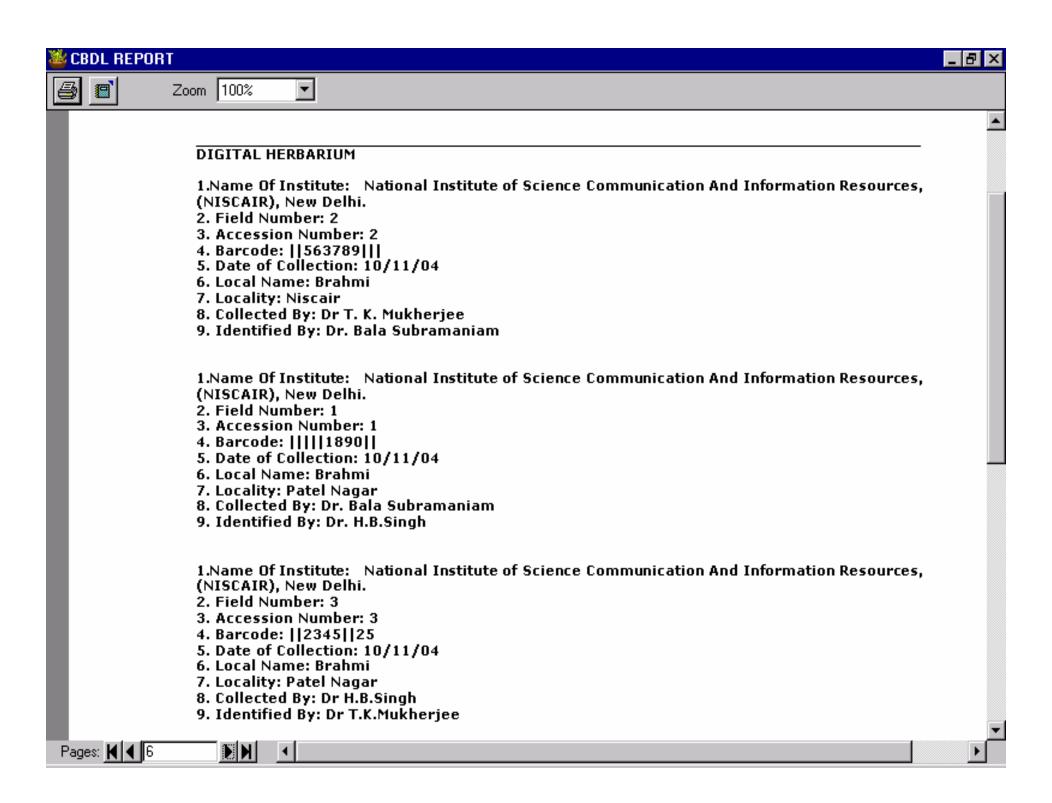


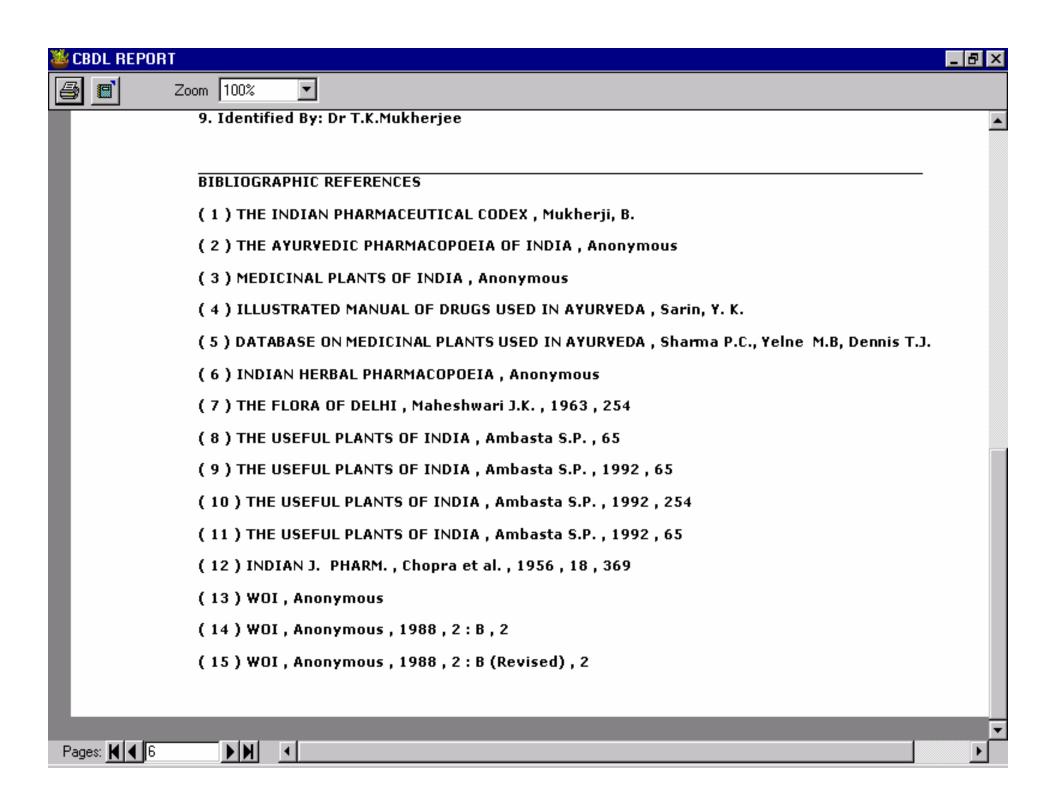


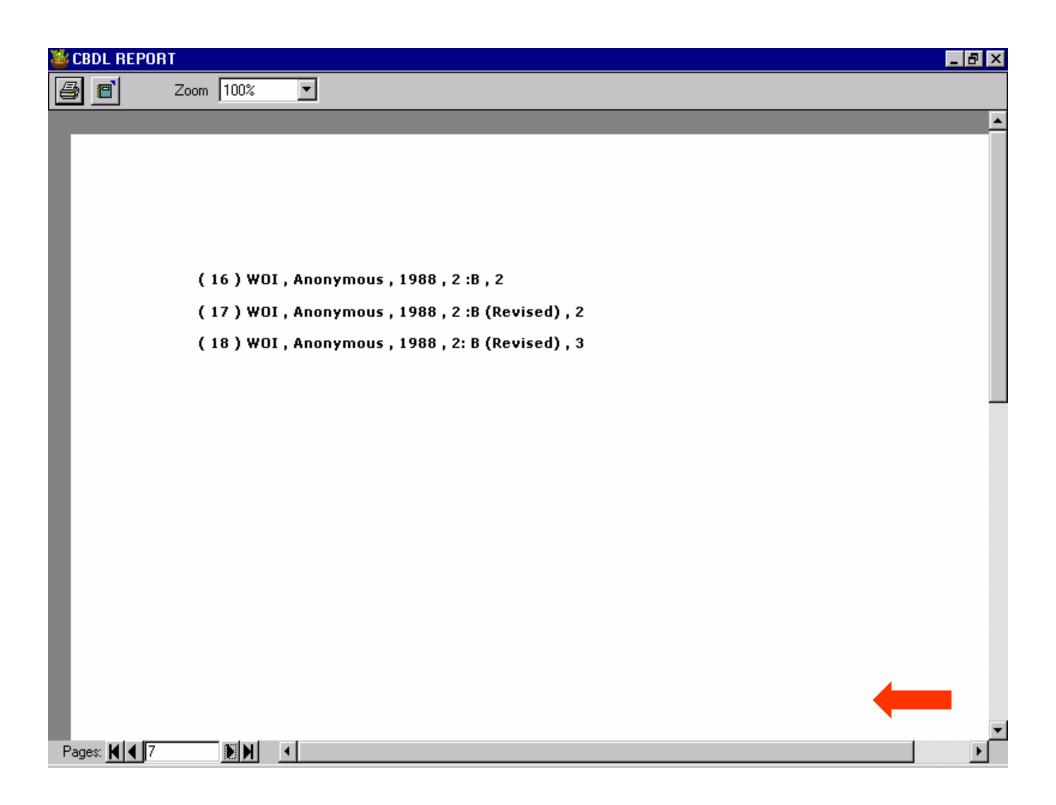




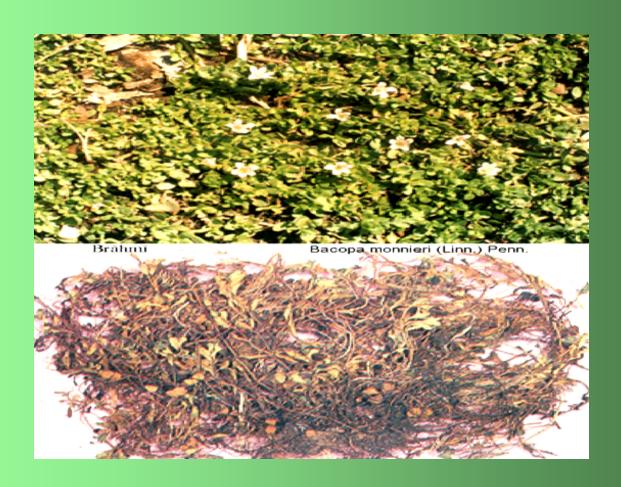








# Bacopa monnieri



# Citrullus colocynthis



Indravāruņī

Citrullus colocynthis (Linn.) Schrad.

# Alternanthera Sessilis





# Acorus calamus





# Piper longum



بیاض نیسیر

چضه د**وم** عضه 33

موی بخاروں کے لئے نہایت بیندے یہ ارزہ کی ہاری بہت بلد حسن می بخارہ کی استان باردہ کی ہاری بہت بلد حسن می احتیاطاً اس کا استعال کھا با از انسان بخارسے بچارہ تا ہے۔ اگر بخارہ کے موسم میں احتیاطاً اس کا استعال کھا با تو انسان بخارسے بچارہ تا ہے۔ بنسلون ایک تولد کند کر دلائے کو نیمن بھو اشہ کو نوبول میں اشہ رست کلوچہ مانتہ رسب وواؤں کو طبیحان کریائی سے تم کر کے مولے وا نہ کے برابرگوریال بنا بھی ، ایک یا ووگو لی میچ مدو پہر - اور ست ام کے وقت یا نی کے سیا تھے استعال کریں اور بخار کے وقت اس کو نہ دیں ساگرا میں کو حفظ فائقہ مے طور لپر نعمال کرنا چا ایک کولی کھا نا کھا نے کے بعد کھالیا کریں یہ



## Key Attributes of TKDL

MA3/95



Title of Traditional Knowledge Resource

Knowledge Known Since

Habb-e-bukhar

50 Years

TKRC CODE:

A01A-1/13, A01A-1/1966, A01A-1/272, A01A-1/472, A01C-1/76,

A01D-20/46, A01F-2/15, A01F-2/16, B01D-24/02, B01D-24/69

IPC Code:

A61K 36/48,A61K 36/59,A61K 36/899,C01B 5/00,A61P 29/00, A61P 33/06, A61P 33/00,A61P 29/00,A61P 29/00, A61P 43/00

#### DETAILS OF PROCESS / FORMULATION:

- 1. Habb-e-bukhar is a therapeutic single / compound formulation consisting of useful parts of following ingredient (s): Bambusa arundinacea (Retz.) Roxb. Syn.: B. bambos Voss (bamboo), Acacia arabica Willd., Tinospora cordifolia Miers (tinospora), Water
- 2. Therapeutic composition / formulation is mentioned below:

1 Bambusa arundinacea (Retz.) Roxb. Syn.: B. bambos Voss (bamboo)

Exudate 12 gm

2 Acacia arabica Willd.

Exudate 3 gm

3 Tinospora cordifolia Miers (tinospora)

Stem

6 gm

4 Water - Q.s

3. Therapeutic composition mentioned above is prepared as HUBOOB:Huboob (pills) are medicinal preparations made by mixing powdered drugs in a suitable binder(Water/Oil/Resin of plant) and made into round and uniformly shaped balls of the required size. To avoid the sticking of the lubdi during the rolling between the fingers lubricants like Raughan Zard or Raughan-e-Kunjad is applied.

- 4. A composition as described above is formulated as Pills.
- 5. The dose of above mentioned therapeutic composition is 1-2 Pills.
- 6. Mode of administration: Oral administration.
- 7. Time of administration Morning, Afternoon, and In the evening.
- 8. It is useful in the treatment of seasonal fever, Malaria / Intermittent fever, and used for prevention of Fever/Pyrexia

### LIST OF DOCUMENTS WITH DATE OF PUBLICATION (PRIOR ART):

Kabiruddin

Bayaz-e- Kabir Volume II

prior art

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## CARAKA-SAMHITĂ

#### **CHIKITSĀSTHĀNAM**

22

ऐन्द्री मत्स्याख्यको ब्राह्मी वदा ब्रह्मसुवर्चला । विष्वस्यो लवणं हेम शङ्खपुष्पी विषं घृतम् ॥ २४ ॥ एषां त्रियवकान् भागान् हंमसिविविविवा । ह्रौ यवौ तत्र हेमस्तु तिलं दद्याद्विषस्य च ॥ २५ ॥ सिविध्ध पलं दद्यास्त्रेकध्यं प्रयोजयेत् । घृतप्रभूतं सक्षौद्रं जीणं चान्नं प्रशस्यते ॥ २६ ॥ जराष्ट्राधिप्रशमनं स्मृतिमधाकरं परम् । आयुष्यं पौष्टिकं धन्यं स्वरवर्णप्रसादनम् ॥ २७ ॥ परमोजस्करं चैतत् सिद्धमैन्द्रं रसायनम् । नैनत् प्रसहते हत्या नालक्ष्मीनं विषं न रुक् ॥ २८ ॥

श्वित्रं सकुष्ठं जठराणि गुस्माः श्लोहा पुराणो विषमज्वरश्च । मेधास्मृतिज्ञानहराश्च रोगाः शाम्यन्त्यनैनातिबळाश्च वाताः ॥ २९ ॥

( इत्यैन्द्रं रसायनम् )

Aindrī, matsyākhyaka, brāhmī, vacā, brahma-suvarcalā, pippalī, lavaņa, śankhapuṣpī, all in quantity of three barely grains, gold in that of two barley grains, viṣa equal to one sesamum seed and ghee 40 gms,—all should be mixed together and used. After the food is digested, diet containing honey and plenty of ghee should be given.





## Key Attributes of TKDL

BP/1833



Title of Traditional Knowledge Resource

Knowledge Known Since

Aind rīra sāyanam

1000 Years

TKRC CODE:

A01A-1/127, A01A-1/1482, A01A-1/267, A01A-1/40, A01A-1/488, A01A-1/507, A01A-1/52, A01A-1/547, A01A-3/9, A01B-1/23, A01C-1/49, A01C-1/50, A01D-20/16, A01D-20/46, A01D-20/51, A01D-22/02, A01D-22/10, A01D-22/16, A01D-6/31, A01D-6/46, A01D-7/39, A01D-7/44, A01E-1/157, A01E-1/165, A01E-1/187, A01E-1/206, A01E-1/207, A01E-1/31, A01E-1/84

IPC Code:

A61K33/00, A61K33/24, A61K35/12, A61K35/20, A61K35/78, A61K7/48, A61K9/14, A61P1/00, A61P1/04, A61P1/06, A61P1/08, A61P1/12, A61P1/14, A61P1/16, A61P11/04, A61P17/00, A61P17/12, A61P17/16, A61P21/06, A61P25/00, A61P25/08, A61P25/10, A61P25/12, A61P25/18, A61P25/26, A61P25/28, A61P29/00, A61P3/02, A61P31/08, A61P33/00, A61P33/04, A61P33/06, A61P37/04, A61P39/00, A61P39/02, A61P39/04, A61P39/06, A61P43/00

#### DETAILS OF PROCESS / FORMULATION:

1. Aindrīrasāyanam is a therapeutic single / compound formulation consisting of useful parts of following ingredient(s): Citrullus colocynthis (Linn.) Schrad. (colocynth), Alternanthera sessilis (Linn.) DC. (sessile joyweed), Bacopa monnieri (Linn.) Penn. (coastal

1. Aindrīrasāyanam is a therapeutic single / compound formulation consisting of useful parts of following ingredient(s): Citrullus colocynthis (Linn.) Schrad. (colocynth), Alternanthera sessilis (Linn.) DC. (sessile joyweed), Bacopa monnieri (Linn.) Penn. (coastal waterhyssop, herb of grace, herb-of-grace), Acorus calamus Linn. (calamus, sweetflag), Cleome icosandra Linn. Syn. C. viscosa Linn. (Asian spiderflower), Piper longum Linn. (Indian Long Pipper), Rock salt, Gold, Convolvulus microphyllus Sieb. ex Spreng. Syn.: C. pluricaulis Choisy / Evolvulus alsinoides Linn. / Clitoria ternatea Linn., Aconitum chasmanthum Stapf & Holmes / Aconitum ferox Wall. ex Ser. (Indian aconite), Clarified butter

2. Therapeutic composition / formulation is mentioned below:

1	Citrullus colocynthis (Linn.) Schrad. (colocynth)	Root	- Powder	120 mg
2	Alternanthera sessilis (Linn.) DC. (sessile joyweed)	Leaf	- Powder	120 mg
3	Bacopa monnieri (Linn.) Penn. (coastal waterhyssop, herb of grace, herb-of-grace)	Whole plant	- Powder	120 mg
4	Acorus calamus Linn. (calamus, sweetflag)	Rhizome	- Powder	120 mg
5	Cleome icosandra Linn. Syn. C. viscosa Linn. (Asian spiderflower)	Root	- Powder	120 mg
6	Piper longum Linn. (Indian Long Pipper)	Fruit	- Powder	120 mg
7	Rock salt		- Powder	120 mg
8	Gold	Calcined drug	- Powder	80 mg
9	Convolvulus microphyllus Sieb. ex Spreng. Syn.: C. pluricaulis Choisy / Evolvulus alsinoides Linn. Clitoria ternatea Linn.	/ Whole plant	- Powder	120 mg

9 Convolvulus microphyllus Sieb. ex Spreng. Syn.: C. pluricaulis Choisy / Evolvulus alsinoides Linn. / Whole plant Powder 120 mg Clitoria ternatea Linn.

10 Aconitum chasmanthum Stapf & Holmes / Aconitum ferox Wall. ex Ser. (Indian aconite) Rhizome Powder 2.4 mg

3. Therapeutic composition mentioned above is prepared as CURNA: (POWDER)

Ingredients mentioned in the formulation are cleaned and dried properly. They are finely powdered and sieved. Where there are multiple ingredients, they are separately powdered and sieved. Each one of them (powder) is weighed separately, and mixed together. In industry, however, all the ingredients are cleaned, dried and powdered together by disintegrators. Mechanical sifters are also used. Salt, sugar, camphor etc., if mentioned are separately powdered and mixed in the end. Asafoetida (Higu) and salt may also be roasted, powdered and then added. Ingredients, which are to be taken fresh, are made into herbal paste, dried, and then added. Sometimes Bhøvanø (trituration) with Svarasa (expressed juice of plants) or Kvøtha (decoction) etc. is given if indicated in the formulation

- 4. A composition as described above is formulated as Powder.
- 5. The dose of above mentioned therapeutic composition is 12 gm.
- 6. Mode of administration Oral administration .
- 7. It is Memory enhancer, Beneficial for life span/ Providing longevity, Nutrient, Beneficial for voice, Complexion promoting, Energy providing/ Promoting Ojas, Antipoison; Alexipharmac; Antidote.
- 8. It is useful in the treatment of Leucoderma/Vitiligo(T), Leprosy and other dermatoses, Diseases of abdomen, Abdominal lump, Enlargement of spleen, Malaria / Intermittent fever, Syncope/Fainting, Epilepsy, Psychosis/Insanity/Mania, Disease with Vata predominance

### LIST OF DOCUMENTS WITH DATE OF PUBLICATION (PRIOR ART):

11 Clarified butter

Cow

48 am

# வயித்தியம்-எா

## சண்டமாகுதக் குழம்பு

மாருகமாங்கொடிவேலி முருங்கை வாகைமாகி கிங்கம்வேண் பெருக்கம்வேர்மேனி, வாருகமா மழிஞ்சிவெட்டி வேம்பும்புக்கு மருக்காடைபொற்கையா அயும்வேனே சாருகமா காப்ப்பாகல் கிழி

முடக்கற்றுறேடு சிற்றோண்டக் காட்டுக்கொட்டை, காருகமாயில கருணே சங்கங்குப்பி கருகொச்சிகமுதாழை வெண்ணெச்சியே. 4%

கொச்சியொடுபூவாசு பெரியகொன்றை நுவலரிபவருமகுத்த காக்கைவேரும், கச்சியாங்கருன்குரை செங்கத்தாரி கரிசாலேவேச் னிரண்டுகற்குழைபாமி, கிச்சையாங்கழற்கொட்டி கருவேல்குள்! நிலவாகைபேய்க்குமட்டி திருகுகள்ளி, கொச்சையா மூக்கொட்டை சதுரக்கள்ளி கொடிக்கள்ளியவுரிகிறு குறிஞ்சாமே.

குறிஞ்சாவாங் கீழ்க்காபினெல்லி குன்றிகுலவும்வேர்வேலியில் நன்பருத்திக்கோவை, சிறிஞ்சான சிற்று முட்டிபோமுட்டி சோர் தைது தவளேக்கண்டங்காலி, சுறிஞ்ஞானவழு தஃவின் சிறுசுஞ் சோறி சுனமானபேய்க்கருடனிடகிழங்கு, இறிவான விராலிமுத் பலம்பத்தாக இடித்துகிழறுலர்த்தி குழித்துபிலம் வாங்கே. 427

வாங்கியே தமிலமொரு பாண்டத்தூட்டு வாகாகப் பேய்க் குமட்டிச்சாறகாழி, தேங்கியே திருகுற்றகள்ளிப்பாலும் செயலாக வகைவகைக்குகாழிவாரு, தீங்கில்லாத் கில்லம்பால் படிதான் कुटजादिकषायः—

कुटजं दाडिमं मुस्तं धातकी बिल्वबासकम् । सोधचन्द्रनपाठाश्च कषायं मधुना पिवेत् ॥३१॥ सामे शूसे चरके च पिष्छास्रावे च शस्यते । कुटजादिरिति ख्यातः सर्वातीसारनाशनः ॥३२॥ बहुशो दष्टफलोऽयम् ॥ ३१-३२ ॥

इन्द्रयव, दाडिमफल के खिलके, मोथा, धाय के फूल, बेल के फल का गृदा, नेश्रवाला, लोध, लाल चन्दन और पाठा इनका क्वाथ बनाकर उसमें शहद मिलाकर पीना चाहिए। यह कपाय आमातिसार, संश्र्लातिसार, रक्तातिसार और पिच्छिल पदार्थयुक्त अतिसार में प्रशस्त है। यह कुटजादि कथाय प्राय: सर्व प्रकार के अतिसार को नष्ट करता है।।३१-३२॥





## Key Attributes of TKDL

AK/590



Title of Traditional Knowledge Resource

Knowledge Known Since

Kutajādikasāyah

200 Years

TKRC CODE:

A01A-1/1592, A01A-1/1598, A01A-1/1892, A01A-1/2130, A01A-1/480, A01A-1/530, A01A-1/635, A01A-1/67, A01A-1/989, A01A-3/19, A01B-1/37, A01D-20/110, A01D-20/41, A01D-20/94, A01D-7/14, A01D-7/40, A01D-7/60, A01F-1/1

IPC Code:

A61K35/64, A61K35/78, A61K9/08, A61P1/06, A61P1/12, A61P1/14, A61P1/16, A61P1/18, A61P17/00, A61P17/02, A61P29/00, A61P31/00, A61P33/04

#### DETAILS OF PROCESS / FORMULATION:

1. Kutajādikaṣāyaḥ is a therapeutic single / compound formulation consisting of useful parts of following ingredient(s): Holarrhena antidysenterica (Roxb. ex Flem.) Wall. ex DC. (tellicherry bark), Punica granatum Linn. (pomegranate), Cyperus rotundus Linn. / Cyperus scariosus R. Br. / Cyperus arundinaceum Baker (chaguan humatag, cocograss, kili'o'opu, nutgrass, pakopako, purple nutsedge), Woodfordia fruticosa (Linn.) Kurz., Aegle marmelos Correa ex Roxb. (Indian bael), Coleus vettiveroides K.C. Jacob / Valeriana jatamansii Jones Syn.: V. wallichii DC., Symplocos racemosa Roxb. (sweetleaf, symplocos), Pterocarpus santalinus Linn. f. (red sandal wood), Cissampelos pareira Linn. (pareira brava), Honey

2. Therapeutic composition / formulation is mentioned below:

3. Therapeutic composition mentioned above is prepared as KVĀTHA :(DECOCTION)

Kvātha (decoction) is prepared by boiling powdered plant material with required quantity of water.

A specific quantity of water is retained after boiling, which is then filtered to obtain Kvātha. It is also called Sṛta, Niryūha and Kaṣāya.

- \* Prakşepadravya æ The fine powder of some fragrant and other ingredients like honey, clarified butter etc. is added to kvatha, which is called Prakşepadravya.
- 4. A composition as described above is formulated as Decoction / Water extract.
- 5. The dose of above mentioned therapeutic composition is 24-48 gm.

10 Honey



12 gm

- 6. Mode of administration Oral administration .
- 7. It is useful in the treatment of Diarrhoea with predominance of Ama, Acute diarrhoea, with Colic, Blood dysentery, Acute diarrhoea, with Slimmi, Discharge, and All types, Acute diarrhoea

### LIST OF DOCUMENTS WITH DATE OF PUBLICATION (PRIOR ART):

Govinda Dāsa

Bhaişajya Ratnāvalī - Edited by Rajeshvaradutta Shastri, Translated by Ambikaduttashastri : Chaukhamba Sanskrit Sansthan, Varanasi, Edn. 14th, 2001. [This book contains back references from 1000 B.C.to 18th century]

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هوارس تبواج اليف عليه معلونان جن المنظمة المن

### 312 ஆவியளிக்கும் அமுதமுறைச் சுருக்கம்

(5) குட சப்பாலே, அதிவிடையம், கோரைக்கிழங்கு, சாதிக் கீர்ய், கேக்கு, அபின், கஞ்சா, கழற்சிப்பருப்பு, இலவம் பிசின், சீர்கம், மாங்கொட்டைப்பருப்பு, வில்வப்பழம் இவைகளே சம என்ட்யாய் எலுமிச்சம்பழச் சாற்முலாட்டி கழற்சி அளவு உருண்டை செய்து தேனில் கொடுக்கத் திரும்.

# रसतन्त्रसार व सिद्धप्रयोगसंग्रह द्वितीय खण्ड

प्रमेह

३७२

## १२. मधुमेह दमन चूर्ण।

प्रवान गुड़मार ८ तोले, बिनोले की मींगी ४ तोले, जामुन की गुठलियों की मींगी ४ तोले, सूखे बिल्वपत्र ६ तोले तथा शुष्क निम्बपत्र २ तोले लें। बिधि-सबको कूट पीस-कपड़छन चूर्ण बनाकर शीशी में भर लें। मात्रा-२ से ३ माशे तक, जल के साथ दिन में २ समय सेवन करें। जपयोग-इसके सेवन से मधुमेह रोग के कारण उत्पत्र होती रहने वाली शर्करा पर अति शीध काबू हो जाता है, चाहे वह शर्करा केवल मूत्र में ही उत्पन्न हुई हो अथवा उसकी उपस्थित रक्तान्तर्गत भी हो गई हो। इसके अतिरिक्त यह अग्न्याशय और यकृत् के विकारों को दूरकर मधुमेह का दमन भी करती है।

सूचना-यदि वसन्त कुसुमाकर रस के सहपान रूप से इस चूर्ण का प्रयोग किया जाये तो मधुमेह रोग में निश्चित लाभ होने की आशा है।





## Key Attributes of TKDL

RS21/437



Title of Traditional Knowledge Resource

Knowledge Known Since

Madhumeha Damana Curna

50 Years

TKRC CODE:

A01A-1/1900, A01A-1/265, A01A-1/67, A01A-1/927, A01A-1/946,

A01A-3/9, A01C-1/76, A01D-16/02, A01F-1/1

IPC Code:

, A61K 131/00, A61K 36/00, A61K 36/185, A61K 36/27, A61K 36/58, A61K 36/61, A61K 36/75, A61K 9/14, A61P 3/10, A61P 5/00, A61P 5/48, C01B 5/00

#### DETAILS OF PROCESS / FORMULATION:

1. Madhumeha Damana Curna is a therapeutic single / compound formulation consisting of useful parts of following ingredient(s): Gymnema sylvestre (Retz.) R.Br. ex Schult. (meṣaṣṛmgī, madhunāṣinī) (miracle fruit), Gossypium herbaceum Linn. (kārpāṣa) (Levant cotton), Syzygium cuminii (Linn.)Skeels (jambū) (jambolan plum, Java plum, kavika ni India, mesegerak), Aegle marmelos Correa ex Roxb. (bilva) (Indian bael), Azadirachta indica A. Juss. (nimba) (neem)

2. Therapeutic composition / formulation is mentioned below:

1 Gymnema sylvestre (Retz.) R.Br. ex Schult. (meşasımgī, madhunāsinī) (miracle fruit)

Leat

96 gm

2 Gossypium herbaceum Linn. (kārpāsa) (Levant cotton)

Seed

48 gm

3 Syzygium cuminii (Linn.)Skeels ( jambū) (jambolan plum, Java plum, kavika ni India, <sub>Endosperm</sub> mesegerak)

48 gm

4 Aegle marmelos Correa ex Roxb. (bilva) (Indian bael)

Leaf -Non-unctuous / Dry / 72 gm

5 Azadirachta indica A. Juss. (nimba) (neem )

Leaf -Non-unctuous / Dry / 24 gm

3. Therapeutic composition mentioned above is prepared as CURNA: (POWDER)

Ingredients mentioned in the formulation are cleaned and dried properly. They are finely powdered and sieved. Where there are multiple ingredients, they are separately powdered and sieved. Each one of them (powder) is weighed separately, and mixed together. In industry, however, all the ingredients are cleaned, dried and powdered together by disintegrators. Mechanical sifters are also used. Salt, sugar, camphor etc., if mentioned are separately powdered and mixed in the end. Asafoetida (Higu) and salt may also be roasted, powdered and then added. Ingredients, which are to be taken fresh, are made into herbal paste, dried, and then added.

Sometimes Bhavana (trituration) with Svarasa (expressed juice of plants) or Kvatha (decoction) etc. is given if indicated in the formulation.

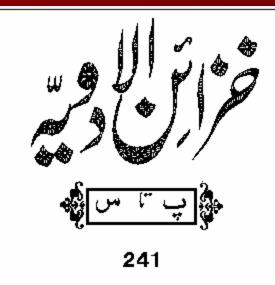
- 4. A composition as described above is formulated as Powder (cūrna).
- 5. The dose of above mentioned therapeutic composition is 2-3 gm.
- 6. It is given with adjuvant of Water (jala/udaka) .
- 7. Mode of administration: Oral administration (ausadhi pāna).
- 8. Time of administration 2 Time(s) per day .
- 9. It is useful in the treatment of Diabetes mellitus (madhumeha)

### LIST OF DOCUMENTS WITH DATE OF PUBLICATION (PRIOR ART):

Rasatantrasārah Evam Siddhaprayogasamgrahah; part II; Krishan Gopal Ayurveda Bhawan; Edn 8th; 1990 [This book contains back references from 1000 B.C. to 20th century]

prior art

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مرض فریابیلین مامن سے خشک دیوں کا سفوف بائی گرین سے بندر وگرین تک یا اسکے سسیال رسبا کوا کمب فرام سے و و ڈرام کک کی مقدار مین ان تہن مرتبہ کھلانا بنایت مفیدسیہ



- Taxonomic Information, citation, synonyms, vernacular names, habitat, geographical information
- Morphological Information
- Cytological Information
- Germplasm Information
- Phytochemistry
- Pharmalogical Information
- Pharmacognostical Information
- Toxicology
- Utilization



Zoom 100%

### COMPONENTS OF BIODIVERSITY DIGITAL LIBRARY

KINGDOM....Plantae CLASS....Magnoliopsida (Dicotyledons) FAMILY....Scrophulariaceae GENUS....Bacopa Aubl. SPECIES....Bacopa monnieri (Linn.) Penn.

Citation: in Proc. Acad. Nat. Sci. Philad. 98:94, 1946;

Santapau in RBSI. 16(1): 201, 1953.

Status: Abundant known Since: 1756

TKDL TKRC: Ploidy level: Basic No.:

Chromosome No.:

#### SYNONYMS

LYSIMACHIA MONNIERI LINN. .... Cent. Pl. 2:9, 1756. MONIERA CUNEIFOLIA MICHX. .... Fl. Bor-Amer. 2:22, 1803 (Monnieria);

#### **VERNACULAR NAMES**

English .... Water hyssop Hindi .... Jalnim, Brahmi; Neem-jal; jal-lep.

Kannada .... Niru brahmi Malayalam .... Nirbrahmi Marathi .... Nirbrahmi Bengali .... Brihmi-sak

Sanskrit .... Nira-Brahmi, Manduki

Tamil .... Nirbrahmi,

Telugu .... Sambrani chettu

#### MORPHOLOGY

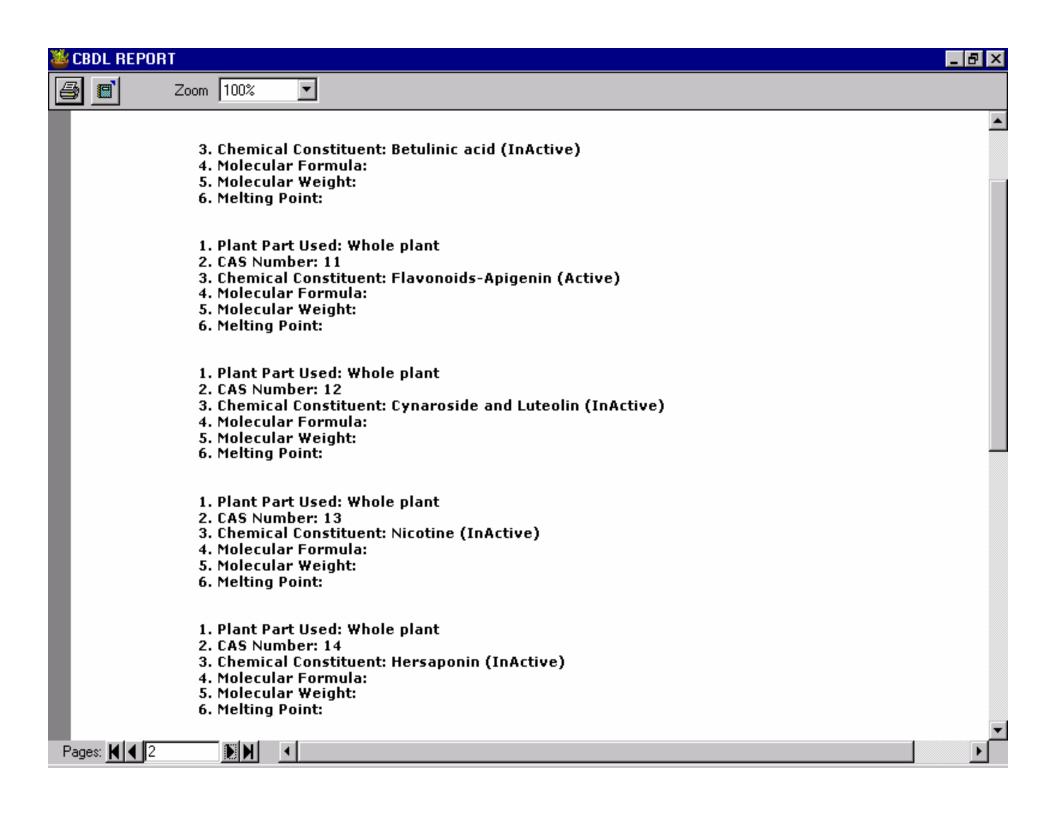


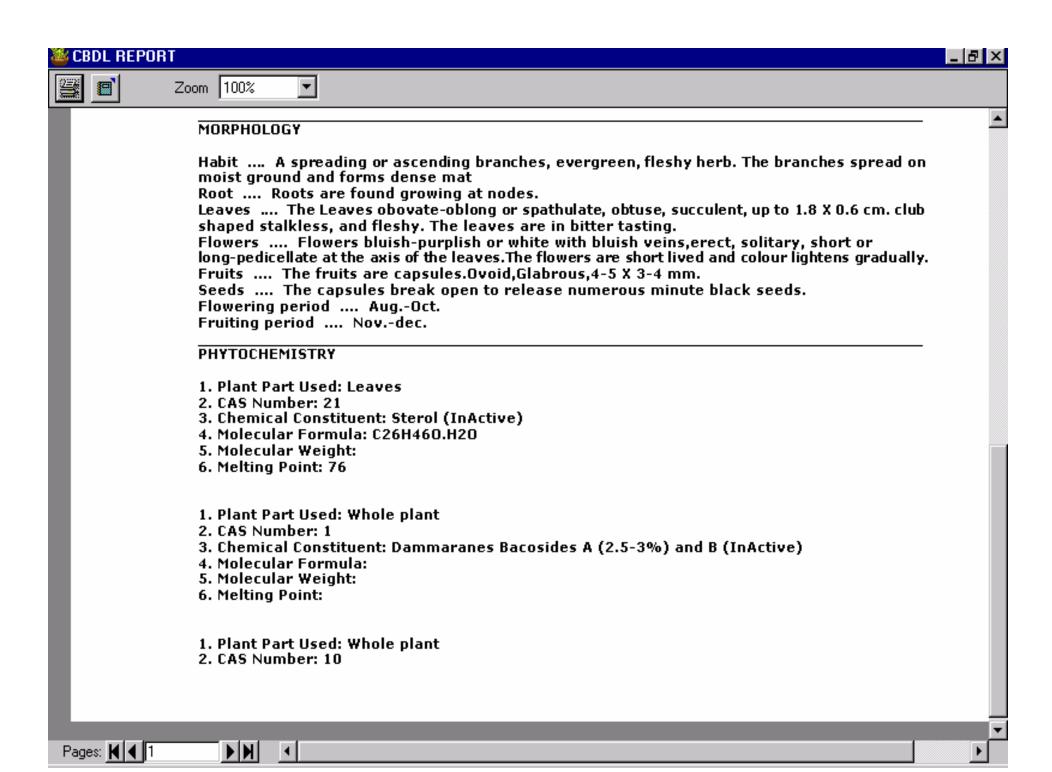


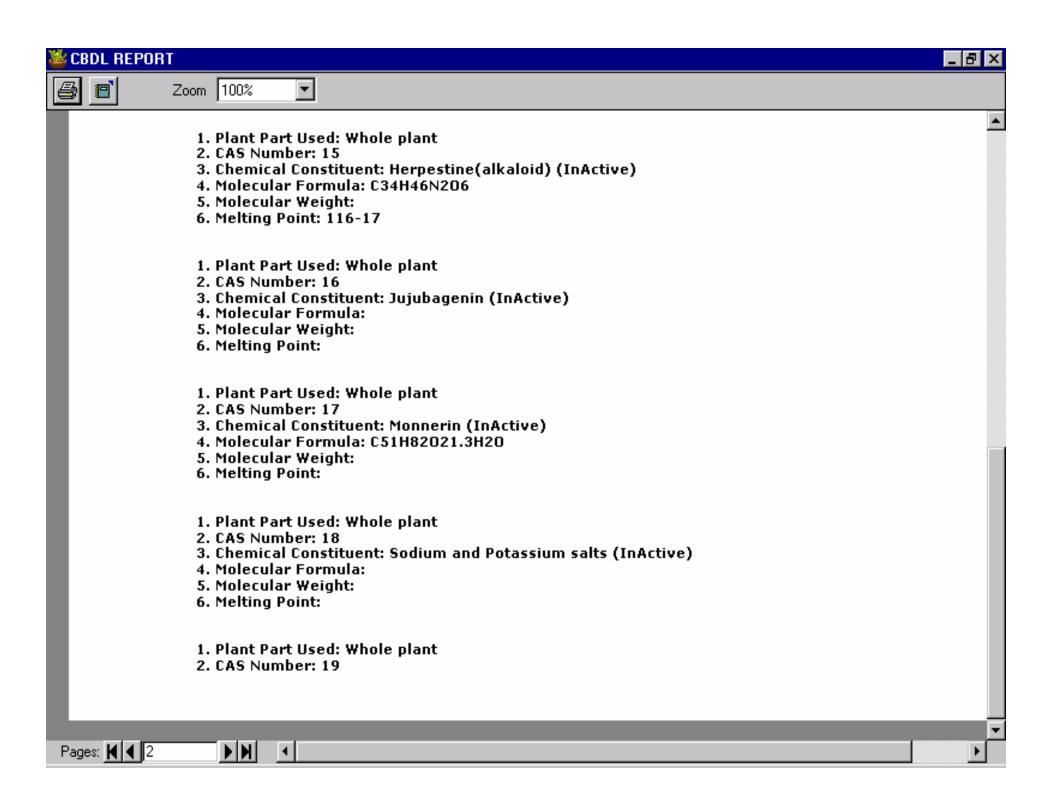


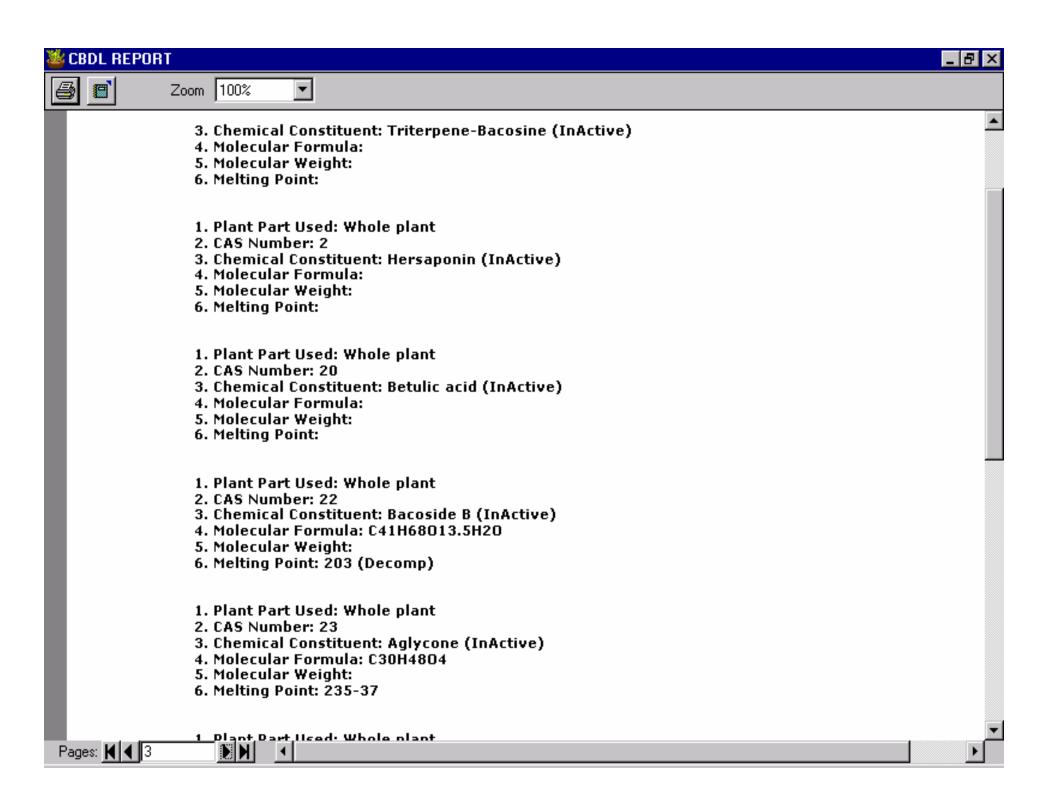


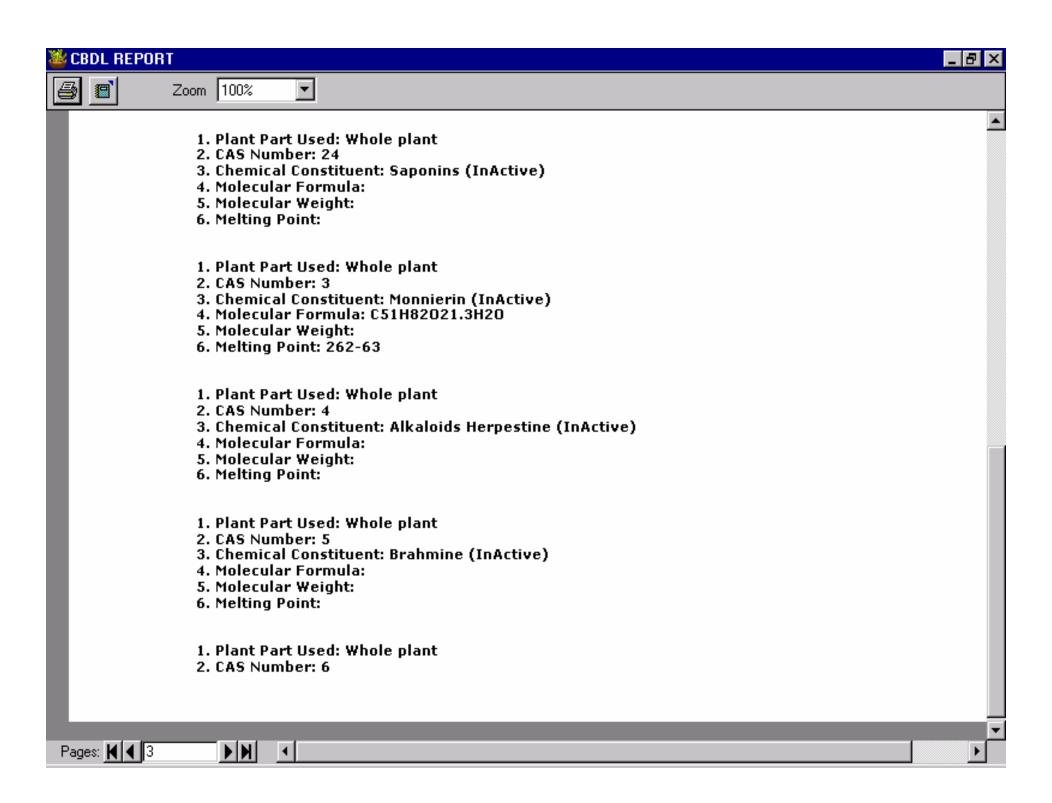


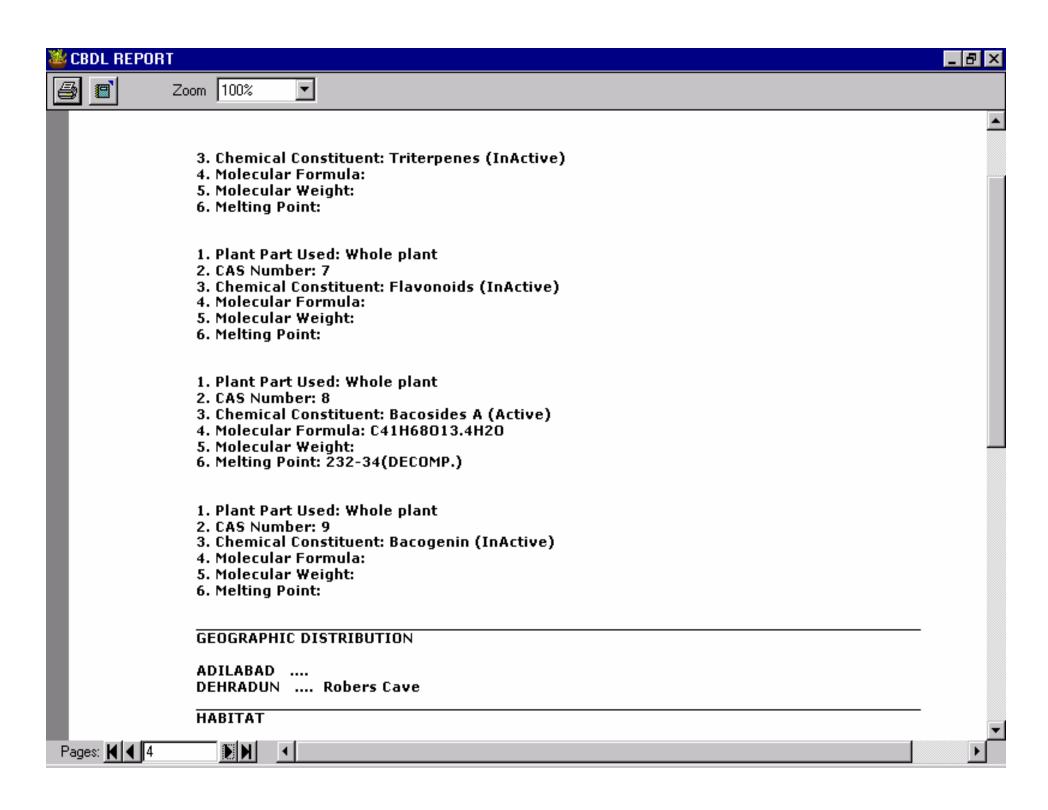


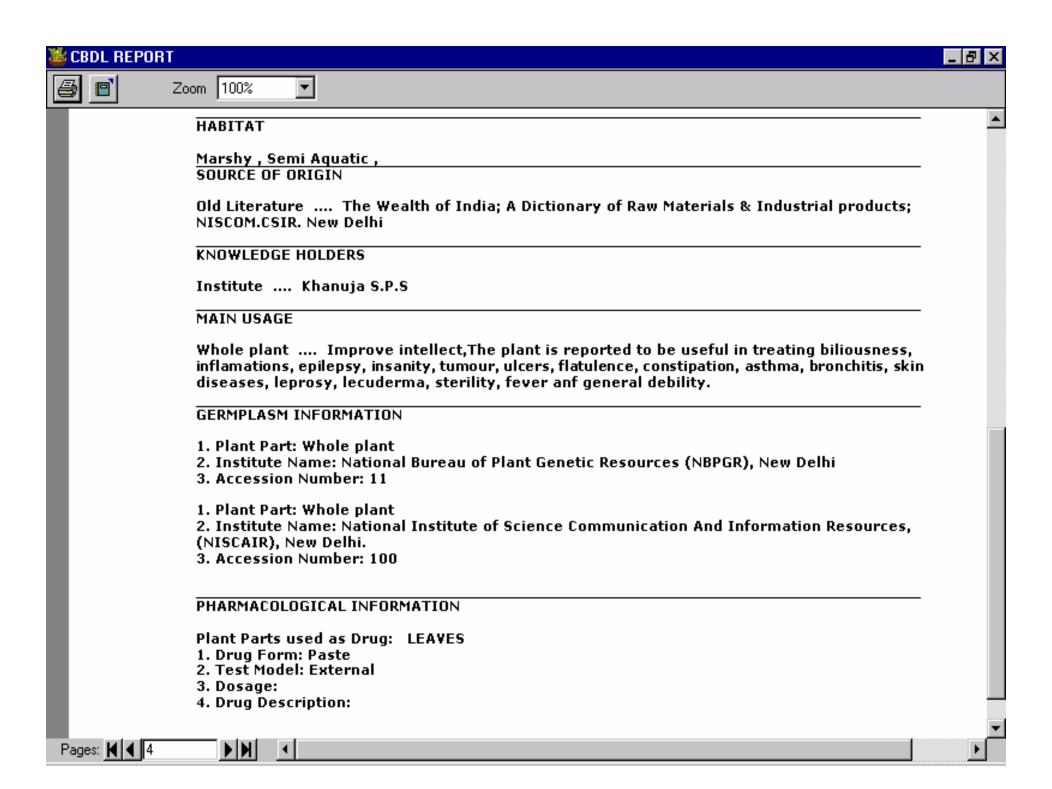


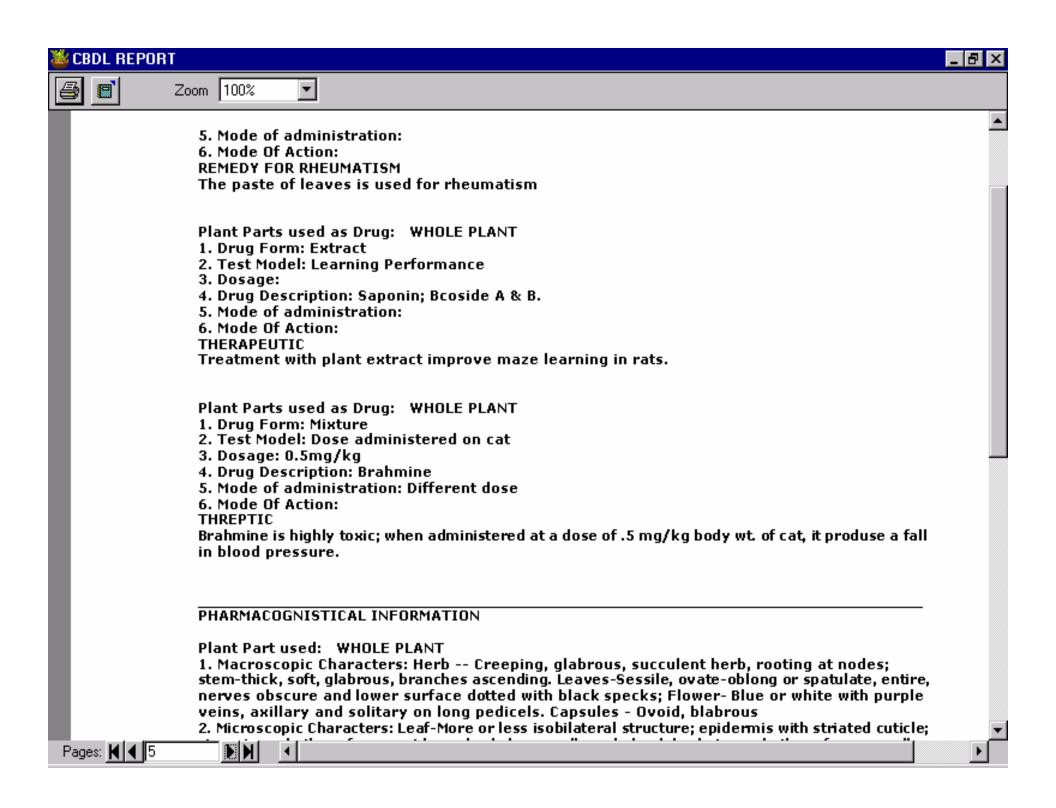


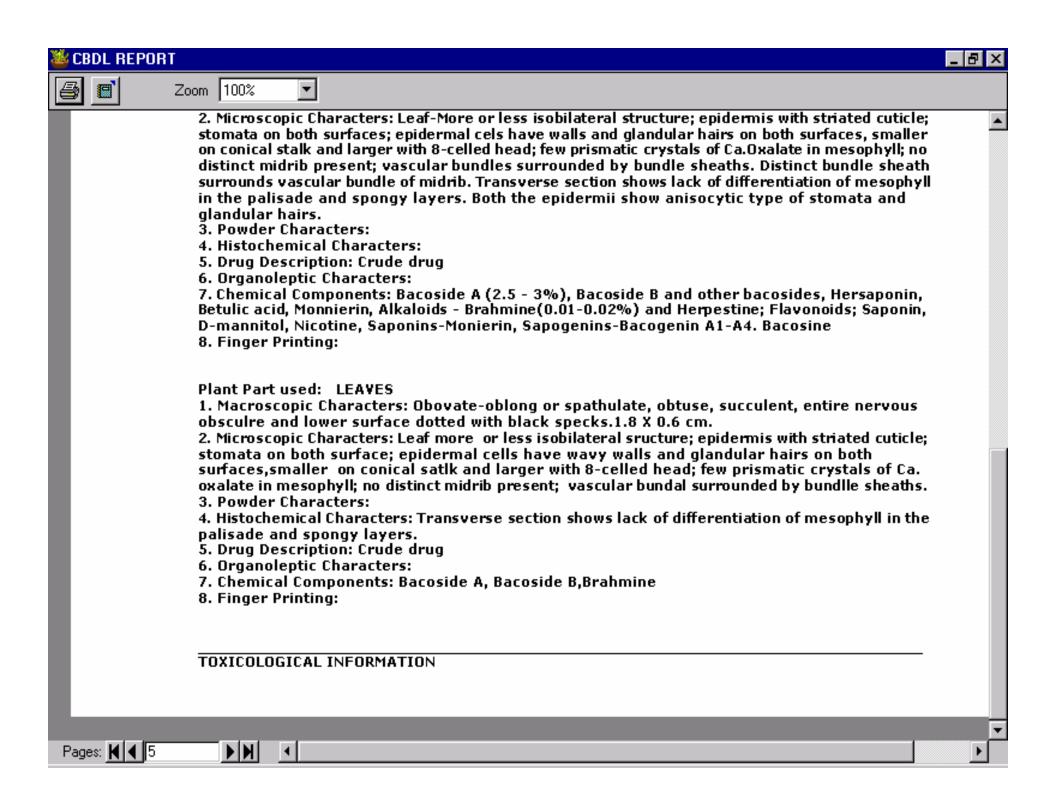


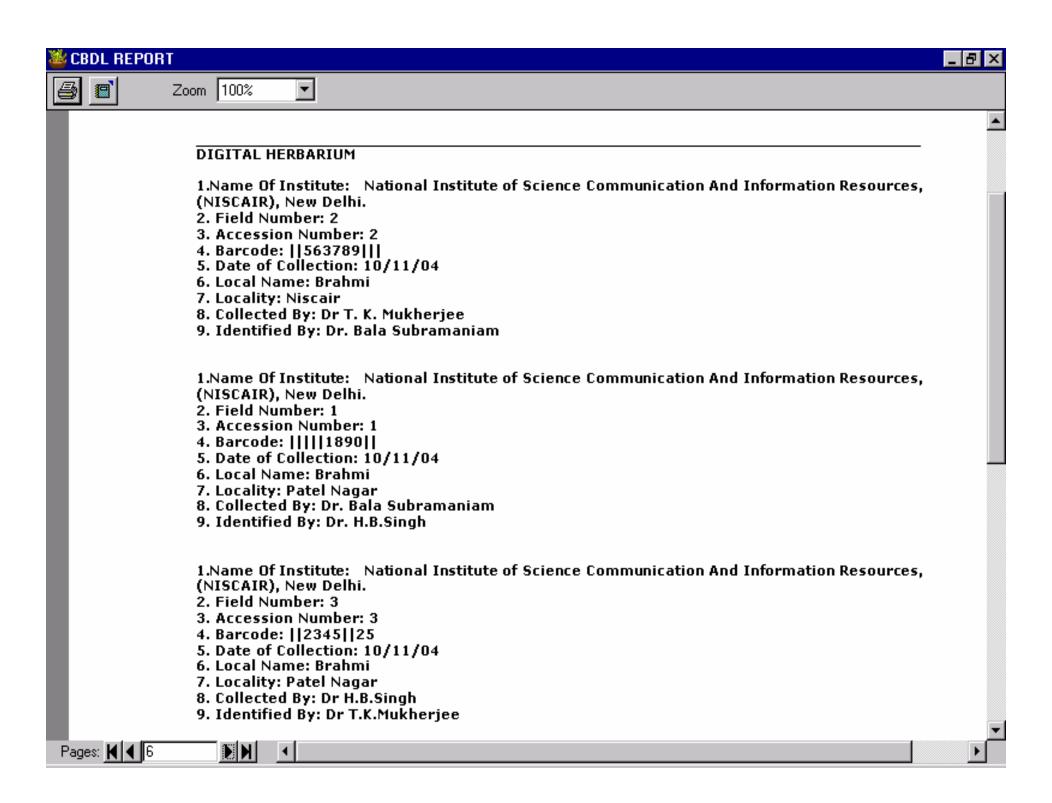


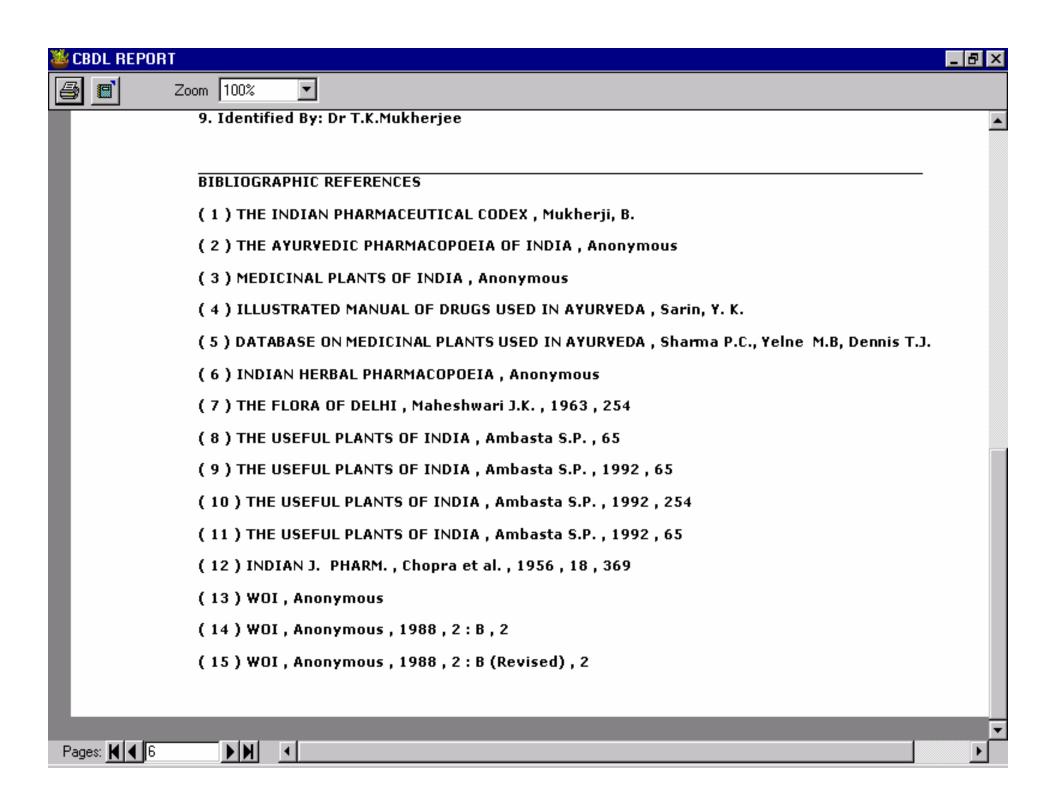


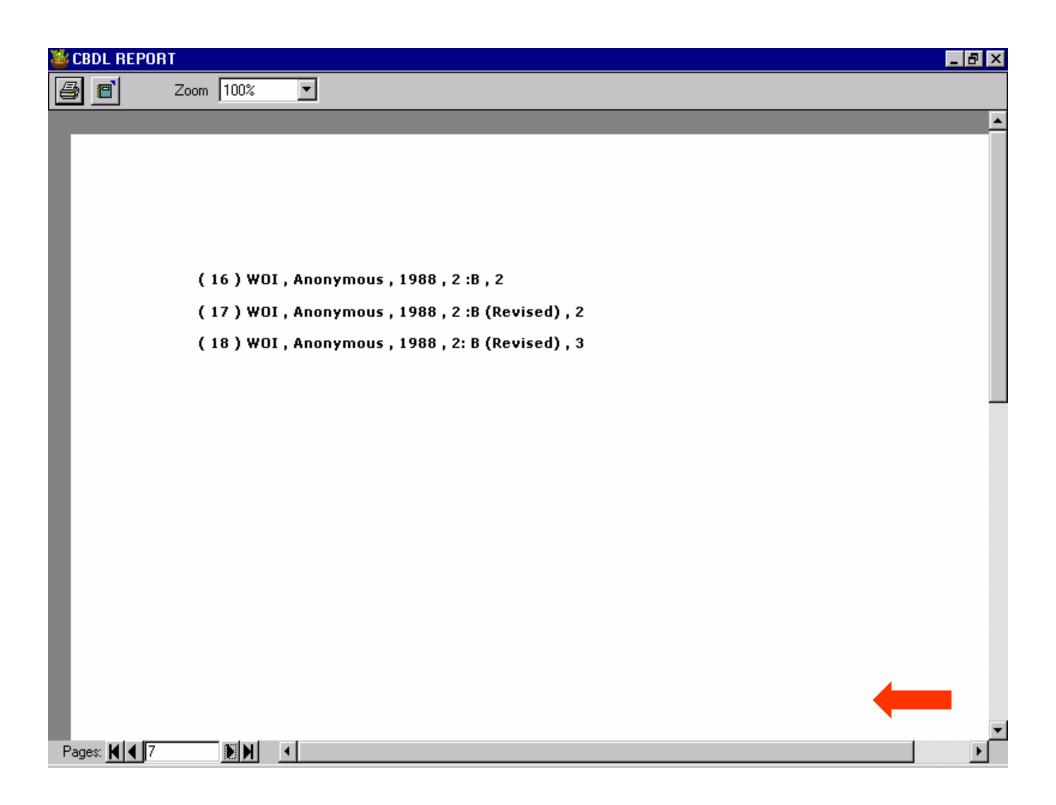




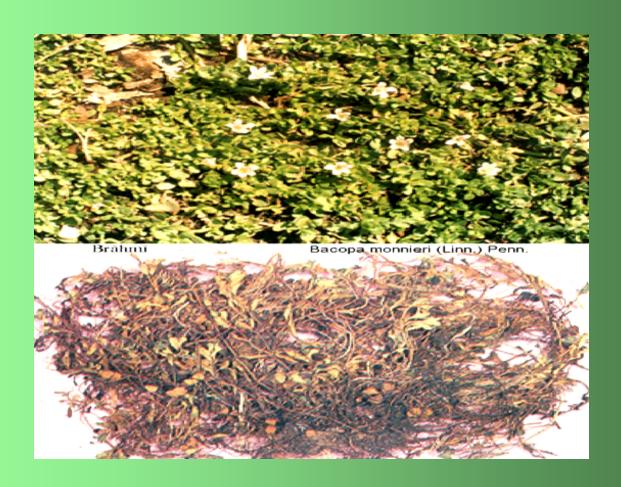








## Bacopa monnieri



## Citrullus colocynthis



Indravāruņī

Citrullus colocynthis (Linn.) Schrad.

### Alternanthera Sessilis





### Acorus calamus





## Piper longum



بیاض نیسیر

چضه د**وم** عضه 33

موی بخاروں کے لئے نہایت بیندے یہ ارزہ کی ہاری بہت بلد حسن می بخارہ کی استان باردہ کی ہاری بہت بلد حسن می احتیاطاً اس کا استعال کھا با از انسان بخارسے بچارہ تا ہے ۔ اگر بخارہ کے موسم میں احتیاطاً اس کا استعال کھا با تو انسان بخارسے بچارہ تا ہے ۔ منسلون اکیتولد کند کر دین کو نیمن ) جو اشہ کو فاد بول تین اشہ رست گلوچہ مانتہ رسب وواؤں کو وطبحان کریائی سے تم کر کے مولے وا نہ کے برابرگوریال بنا بھی ، ایک یا ووگو لی میچ مدو پہر - اور ست ام کے وقت یا نی کے سیا تھے استعال کریں اور بخار کے وقت اس کو نہ دیں ساگرا س کو حفظ فائقہ م کے طور لیر نعمال کرنا جا ایک کو لی کھا نا کھا نے کے بعد کھالیا کریں ہ



#### Key Attributes of TKDL

MA3/95



Title of Traditional Knowledge Resource

Knowledge Known Since

Habb-e-bukhar

50 Years

TKRC CODE:

A01A-1/13, A01A-1/1966, A01A-1/272, A01A-1/472, A01C-1/76,

A01D-20/46, A01F-2/15, A01F-2/16, B01D-24/02, B01D-24/69

IPC Code:

A61K 36/48,A61K 36/59,A61K 36/899,C01B 5/00,A61P 29/00, A61P 33/06, A61P 33/00,A61P 29/00,A61P 29/00, A61P 43/00

#### DETAILS OF PROCESS / FORMULATION:

1. Habb-e-bukhar is a therapeutic single / compound formulation consisting of useful parts of following ingredient (s): Bambusa arundinacea (Retz.) Roxb. Syn.: B. bambos Voss (bamboo), Acacia arabica Willd., Tinospora cordifolia Miers (tinospora), Water

2. Therapeutic composition / formulation is mentioned below:

1 Bambusa arundinacea (Retz.) Roxb. Syn.: B. bambos Voss (bamboo)

Exudate 12 gm

2 Acacia arabica Willd.

Exudate 3 gm

3 Tinospora cordifolia Miers (tinospora)

Stem

6 gm

4 Water - Q.s

3. Therapeutic composition mentioned above is prepared as HUBOOB:Huboob (pills) are medicinal preparations made by mixing powdered drugs in a suitable binder(Water/Oil/Resin of plant) and made into round and uniformly shaped balls of the required size. To avoid the sticking of the lubdi during the rolling between the fingers lubricants like Raughan Zard or Raughan-e-Kunjad is applied.

- 4. A composition as described above is formulated as Pills.
- 5. The dose of above mentioned therapeutic composition is 1-2 Pills.
- 6. Mode of administration: Oral administration.
- 7. Time of administration Morning, Afternoon, and In the evening.
- 8. It is useful in the treatment of seasonal fever, Malaria / Intermittent fever, and used for prevention of Fever/Pyrexia

#### LIST OF DOCUMENTS WITH DATE OF PUBLICATION (PRIOR ART):

Kabiruddin

Bayaz-e- Kabir Volume II

prior art

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#### United States of America – Total No. of Application 10

- 1. Asthma/allergy therapy using nigella sativa;
- 2. Method of treatment or management of stress;
- 3. Hydroxylated Polymethoxyflavone Compositions;
- 4. Agents for sequestering serum aging factors and uses therefore;
- 5. Cosmetic herbal compositions;
- 6. Composition and method for facilitating the healing of non-healing and slow-healing wounds and ulcerations;
- 7. Compositions for diabetes treatment and prophylaxis
- 8. Bioactive compositions from theacea plants and processes for their production and use;
- 9. Compositions of bakuchiol and methods of making the same
- 10. Methods Of Treating Epiphora

#### Japan - Total No. of Application 5

- 1. Anti-Inflammatory Agent;
- 2. Skin aging-preventing or improving agent;
- 3. Sleep-Improving Composition;
- 4. Composition for treating hepatitis c;
- 5. Senescence Inhibitor

#### Great Britain - Total No. of Application 3

- 1. Treatment of inflammatory bowel disease
- 2. Polyphenol Extraction Process
- 3. Method and system for producing medicinal alcohol as a prophylatic or remedy for cancer, HIV, AIDS and autoimmune diseases

### Italy - Total No. of Application 3

- 1. A process for the preparation of ferutinine from ferula genus plants
- 2. Cancer treatment using natural plant products or essential oils or components from some pistacia species Set Aside
- 3. Methods and composition for treating sore throat

### Germany - Total No. of Application 2

- 1. Use of preparations, purifications and extracts of aloe Withdrawn
- 2. Skin treatment composition

### India - Total No. of Application 2

- 1. Biotherapeutics for mitigation of health disorders from terminalia arjuna
- 2. Process for producing enriched fractions of tetrahydroxycurcumin and tetrahydrotetrahydroxy-curcumin from the extracts of curcuma longa

#### Netherlands - Total No. of Application 1

1. Functional berry composition - Withdrawn

### New Zealand - Total No. of Application 1

1. A Composition for the treatment of Skin Diseases.

### Australia Total No. of Application 1

1. Cysteine protease from ginger (zingiber) as a food improver and antiinflammatory

#### China Total No. of Application 1

1. Medicaments and food for treatment or prevention of obesity and/or diabetes containing cicer arietinum extract - Withdrawn

### Cyprus Total No. of Application 1

1. Treatment and prevention of inflammation

### Kenya Total No. of Application 1

1. Herbal compositions for treatment of diabetes - Withdrawn

### Spain Total No. of Application 1

1. Natural product in cream with anti-vitiligo therapeutic properties – Set Aside

#### South Korea Total No. of Application 1

1. Nelumbinis semen extract for preventing and treating ischemic heart disease and pharmaceutical composition and health food containing the same - Withdrawn

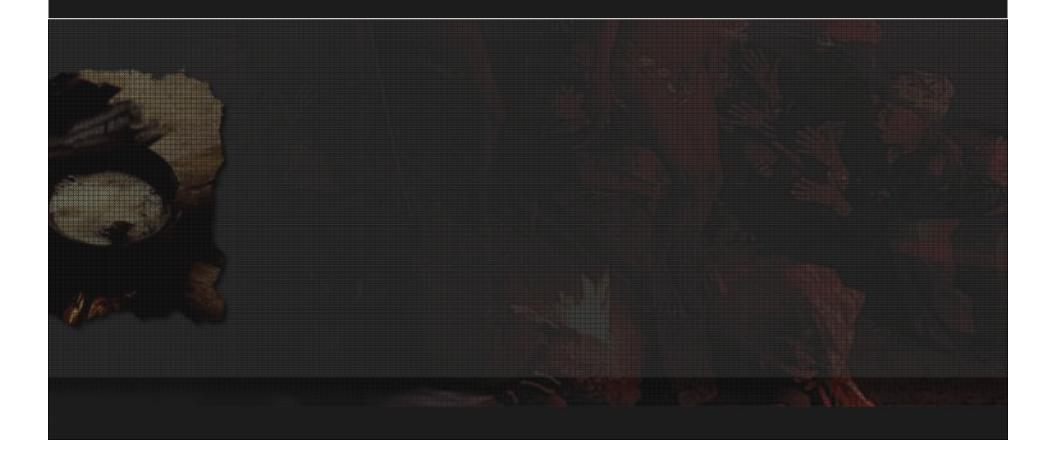
### Bulgaria Total No. of Application 1

1. Therapeutical composition for the treatment of dermatosis comprising an extract of calendula officinalis and hypericum perforatum



### Denmark Total No. of Application 1

1. Method for altering the metabolism characteristic of food products - Withdrawn



# Normal oppositions i.e. without TKDL and TKDL Access Agreement

#### **EPO PATENT NO: EP436257- (Neem)**

Title	Method for controlling fungi on plants by the aid of hydrophobic extracted neem oil
<b>Applicant &amp; Country</b>	Thermo Trilogy Corporation, 9145 Guilford Road Columbia, Maryland 21046-1883, USA
<b>Date of Filing</b>	20 December 1990
<b>Date of Grant</b>	04 August 1994
<b>Date of Opposition</b>	14 September 1994
Opposed by	National and International NGOs
Final Rejection	8 March 2005
Period between Grant & Rejection	10 Years

# Normal oppositions i.e. without TKDL and TKDL Access Agreement

US PATENT NO: 5894079- (Enola Beans)

Title	Field bean cultivar named enola
<b>Applicant &amp; Country</b>	LARRY M. PROCTOR, DELTA, CO. USA
Date of Filing	15 November 1996
Date of Grant	13 April 1999
<b>Date of Opposition</b>	20 December 2000
Opposed by	International Center for Tropical Agriculture
Rejection at USPTO	2008
<b>Rejection at US Federal Court</b>	10 July 2009
Period between Grant & Rejection	10 Years

# Normal oppositions i.e. without TKDL and TKDL Access Agreement

**EPO PATENT NO: EP301749 – (Monsonto soybean)** 

Title	Particle-medicated transformation of soybean plants and lines
Applicant & Country	Monsanto Company, 800 North Lindbergh Boulevard, St. Louis, Missouri 63167, USA
Date of Filing	20 July 1988
Date of Grant	02 March 1994
<b>Date of Opposition</b>	6 October 1994
Opposed by	Rural Advancement Foundation International (Canada)
Final Rejection	6 July 2007
Period between Grant & Rejection	13 Years

## Impact of TKDL & TKDL Access Agreement at EPO

#### **EPO PATENT APPLICATION NO: EP1520585**

(Anti Cancer - Pistacia Vera)

Title	Cancer treatment using natural plant products or essential oils or components from some pistacia species	
Applicant & Country	DATA MEDICA PADOVA S P A, Italy	
Date of Filing	24 September 2004	
Date of intention to grant	19 February 2009	
Date of Third Party observation	08 July 2009	
Notice setting aside Intention to grant	14 July 2009	
Period between Third Party observation and setting aside Intention to grant	1 Week	

# Impact of TKDL & TKDL Access Agreement at EPO

ではい	EPO PATENT APPLICATION NO: EP1747786  (Anti-Vitiligo Cream )		
1	Title	Natural Product Cream with Anti- Vitiligo Therapeutic Properties	
	Applicant & Country	PERDIX EUROGROUP S L, Spain	
	Date of Filing	24 July 2006	
	Date of Intention to grant	March 2009	
	Date of Third Party observation	01 July 2009	
	Notice setting aside Intention to grant	27 July 2009	
のの	Period between Third Party observation and setting aside Intention to grant	3 Weeks	

## Impact of TKDL & TKDL Access Agreement at EPO

EPO PATENT APPLICATION NO: EP1607006 (Cardio Vascular Tonic)	
Title	Cardio Vascular Tonic
Applicant & Country	UNILEVER NV, Netherlands
Date of Filing	18 June 2004
Date of Third Party observation	09 July 2009
Application deemed to be withdrawn	04 August 2009
Period between Third Party observation and withdrawal of application by applicant	3 Weeks

## Impact of TKDL & TKDL Access Agreement at EPO

		PLICATION NO: EP1781309 eart Disease and Health Products)	
1	Title	Nelumbinis semen extract for preventing and treating ischemic heart disease and pharmaceutical composition and health food containing the same	
	Applicant & Country	Purimed Co., Ltd. Seoul, Korea	
	Date of Filing	09-June-2005	7
	Date of Third Party observation	09-July-2009	70
學。	Application deemed to be withdrawn	18-Sept-2009	
	Period between Third Party observation and setting aside Intention to grant	9 Weeks	が、過

# Impact of TKDL & TKDL Access Agreement at EPO

学 发		PLICATION NO: EP2044850 tabolism Characteristic of Food Products)	
	Title	Method for altering the Metabolism Characteristic of Food Products	(2)
Days.	Applicant & Country	CLARA S APS, DENMARK	
	Date of Filing	19-Sept-2007	
	Date of Third Party observation	12-August-2009	- TO
	Applicant withdraw his application	30-Oct-2009	
	Period between Third Party observation and setting aside Intention to grant	11 Weeks	では、静

## Impact of TKDL & TKDL Access Agreement at EPO

# EPO PATENT APPLICATION NO: EP1889638 (Medicaments and food for treatment or prevention of obesity and/or diabetes containing cicer arietinum extract)

	Title	Medicaments and food for treatment or prevention of obesity and/or diabetes containing cicer arietinum extract	
	Applicant & Country	Jumpsun Bio-Medicine (Shanghai) Co., Ltd, China	
A.	Date of Filing	06-March-2006	
国とう	Date of Third Party observation	11-June-2009	
Applicant withdraw his application		20-Nov-2009	
	Period between Third Party observation and setting aside	23 Weeks	

Intention to grant

# Impact of TKDL & TKDL Access Agreement at EPO

	THE PROPERTY OF		1
	EPO PATENT APPLICATION NO: EP1807098  (Herbal compositions for treatment of diabetes)		
	Title	Herbal compositions for treatment of diabetes	
	Applicant & Country	Amcod Limited, Mombasa, Kenya	
3	Date of Filing	13-Sept-2005	·
A.	Date of Third Party observation	01-July-2009	
	Applicant withdraw his application	24-Nov-2009	
元人	Period between Third Party observation and setting aside Intention to grant	21 Weeks	ストリ
			Circ

## Impact of TKDL & TKDL Access Agreement at EPO

である	EPO PATENT APPLICATION NO: EP1967197 (Use of preparations, purifications and extracts of aloe)		
	Title	Use of preparations, purifications and extracts of aloe	
	Applicant & Country	Cognis IP Management GmbH, Germany	
0	Date of Filing	09-March-2007	
	Date of Third Party observation	20-July-2009	
	Applicant withdraw his application	27-Nov-2009	
	Period between Third Party observation and setting aside Intention to grant	19 Weeks	では

Perdix Eurogroup S.L. Frai Rosendo Salvado 13 pta 5,4°Q 15701 Santiago de Composteia A Coruña **ESPAGNE** 

Application No.	Ref.	Date
06 015 343.4 - 2107	PERDIX-PATENT	04.06.2009
Applicant Perdix Eurogroup S.L.		

#### Communication under Rule 71(3) EPC

You are informed that the Examining Division intends to grant a European patent on the basis of the above application with the text and drawings as indicated below:

#### IV.3. Title of the invention

The title indicated on the published patent application remains unchanged. It reads as follows:

Natürliches Produkt in Cremeform mit Anti-Vitiligo therapeutischen Eigenschaften

Natural product in cream with anti-vitiligo therapeutic properties

Produit naturel crémeux avec des qualités anti-vitiligo

#### IV.4. Documentation

Ludwig, Gerald

M. Thalmair - De Meyce Thalmair-De Meyere

### Setting aside Intention to grant

	KO TO				
Fra 157 A C	dix Eurogroup S.L. i Rosendo Salvado 13 pta 5,4°Q 701 Santiago de Composteia coruña PAGNE				
		Date 27-07-2009			
	ference ERDIX-PATENT	Application No./Patent No. 06015343.4 - 2107 / 1747786			
	Applicant/Proprietor Perdix Eurogroup S.L.				
вя	BRIEF COMMUNICATION				
Sul	oject:				
	<ul> <li>Our telephone conve</li> </ul>	rsation of			
	☑ Communication under	er Rule 71(3) EPC dated 04.06.2009			
	☑ Resumption of subs	stantive examination	150		
	The communication under Rule 71(3) EPC is set aside. In accordance with Guidelines C-VI, 14.5 substantive examination is to be resumed because				
	one of the exceptions of Guidelines	s C-VI, 14.4.1 applies.			
M	the Examining Division has become aware of circumstances which are such as to render non-patentable the subject-matter claimed (Guidelines C-VI, 4.11), e.g. following observations by third parties under Article 115 EPC or because the applicant has filed further prior art.				

The Examining Division has become aware of new prior art (Third Party Observation under Article 115 of the EPC).

The application claims the usefulness of a combination of five constituents for the treatment of vitiligo, one of these constituents being a 1:2 watery extract of *Cucumis melo* containing catalase and superoxide dismutase.

However, *Cucumis Melo* has been known for its anti-vitiligo property through local application in the Indian system of medicine, since long, as is evident e.g. from the **Exhibits 1-5 (TKDL abstracts)** as cited in the Third Party Observation under Art. 115 EPC.

Hence, if one ingredient, here *Cucumis melo*, was already known for the treatment of vitiligo, then it had to be expected necessarily in an obvious manner that also a combination product comprising this known active ingredient must be effective for treating vitiligo.

Thus, as long as no surprising (superior) effect of the claimed combination product vis-à-vis the already known products comprising *Cucumis melo*, as described in the **Exhibits 1-5** and in D 2, are shown by the Applicant (for instance in the form of additional technical data), inventive merits under Article 56 EPC cannot be acknowledged.

Modiano, Micaela Nadia Dr. Modiano & Associati SpA Via Meravigli 16 20123 Milano ITALIE

Application No.	Ref.	Date	
04 022 793.6 - 2123	39456/GM/lp	19.02.2009	
Applicant Data Medica Padova S.p.A.			

#### Communication under Rule 71(3) EPC

You are informed that the Examining Division intends to grant a European patent on the basis of the above application with the text and drawings as indicated below:

#### IV.3. Title of the invention

The title indicated on the published patent application remains unchanged. It reads as follows:

Behandlung von Krebs mit natürlichen Pflanzenprodukten, etherischen Ölen oder Inhaltsstoffen von Pistazia Arten

Cancer treatment using natural plant products or essential oils or components from some pistacia species

Traitement du cancer avec des produits naturels de plantes, avec des huiles essentielles ou avec des composants à partir d'espèces de pistacia

#### IV.4. Documentation

30.01.09

Giacobbe, Smone Chairman Borst, Markus

Damiani, Federica 2nd examiner

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## Setting aside Intention to grant

Modiano, Micaela Nadia Dr. Modiano & Associati SpA Via Meravigli 16 20123 Milano ITALIE

 $\Box$ 

Application No. 04 022 793.6 - 2123	Ref. 39456/GM/lp	Date 14.07.2009	
Applicant Data Medica Padova S n A			l

### Communication pursuant to Article 94(3) EPC

The examination of the above-identified application has revealed that it does not meet the requirements of the European Patent Convention for the reasons enclosed herewith. If the deficiencies indicated are not rectified the application may be refused pursuant to Article 97(2) EPC.

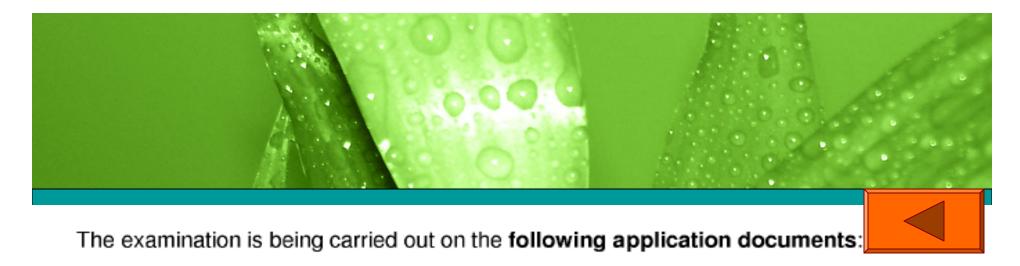
You are invited to file your observations and insofar as the deficiencies are such as to be rectifiable, to correct the indicated deficiencies within a period

### of 4 months

from the notification of this communication, this period being computed in accordance with Rules 126(2) and 131(2) and (4) EPC. One set of amendments to the description, claims and drawings is to be filed within the said period on separate sheets (R. 50(1) EPC).

Failure to comply with this invitation in due time will result in the application being deemed to be withdrawn (Art. 94(4) EPC).

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A 3rd party observation has been filed on 24 June 2009 together with nine exhibits of TKDL abstracts. These exhibits seem to disclose the use of Pistacia lentiscus (exhibit 1-6, 8-9) and of Pistacia vera (exhibit 7) for the treatment of cancer.

The exhibits, in particular exhibit 7, appear pertinent to novelty and inventive step (Article 54 and 56 EPC) of the claims. The Applicant is requested to take position.



Joppe, Hermina Laura Petronella Unilever Patent Group Olivier van Noortlaan 120 3133 AT Vlaardingen PAYS-BAS

17-07-2009

F7775(V)	Application No./Patent No. 04076795.6 - 2114 / 1607006
Applicant/Proprietor	
Unilever N.V., et al	

## Communication pursuant to Rule 114(2) EPC

Please find enclosed observations by a third party concerning the patentability of the invention of the above-mentioned patent application. That person is not a party to the proceedings before the EPO (Art. 115 EPC).

Joppe, Hermina Laura Petronella Unilever Patent Group Olivier van Noortlaan 120 3133 AT Vlaardingen PAYS-BAS



Date 04-08-2009

	Reference F7775(V)	Application No./Patent No. 04076795.6 - 2114 / 1607006
-	Applicant/Proprietor	
	Unilever N.V., et al	

#### Noting of loss of rights pursuant to Rule 112(1) EPC

The European patent application is deemed to be withdrawn under article 94(4) EPC, because the invitation to file observations on the communication from the examining division was not compiled with.

#### Means of redress

#### Request for a decision (R. 112(2) EPC)

If the applicant considers that the finding of the European Patent Office is inaccurate, he may, within a (non-extendable) period of **two months** after notification of this communication, apply in writing for a decision on the matter. The application can only lead to the finding being reversed if this does not actually correspond to the factual or legal situation.

#### Further processing (Art. 121 EPC)

The legal consequence of the failure to observe the time limit shall be deemed not to have ensued if, within a (non-extendable) period of **two months** after notification of this communication, further processing is requested by payment of the fee prescribed under Article 2(12) of the Rules relating to Fees and the omitted act is completed (R. 135(1) EPC).

### Important note to users of the automatic debiting procedure

The fee for further processing will be debited automatically on the day on which the above-mentioned omitted act is completed (see Arrangements for the automatic debiting procedure, Supplement to OJ EPO 3/2009).



Lohr, Georg Lohr, Jöstingmeier & Partner Patent- und Rechtsanwälte Junkersstrasse 3 82178 Puchheim ALLEMAGNE

Date 17-07-2009

Reference NAM2007/04EP	Application No./Patent No. 05765041.8 - 2123 / 1781309
Applicant/Proprietor	
Purimed Co., Ltd.	

## Communication pursuant to Rule 114(2) EPC

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Please find enclosed observations by a third party concerning the patentability of the invention of the above-mentioned patent application. That person is not a party to the proceedings before the EPO (Art. 115 EPC).

Lohr, Georg Lohr, Jöstingmeier & Partner Patent- und Rechtsanwälte Junkersstrasse 3 82178 Puchheim ALLEMAGNE



Closure of the procedure in respect of application No. 05765041.8 - 2123

18.09.09

The procedure in respect of the above application is closed for the following reason:

√ADWI

11/24.06.09 The time limit under Rule 112(2) EPC has expired.

No request for a decision under Rule 112(2), or for further processing under Article 121 EPC or for re-establishment of rights under Article 122 EPC has been filed.





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Nordic Patent Service Pilestræde 58 1112 Copenhagen K DANEMARK European Patent Office 80298 MUNICH GERMANY

Tel. +49 (0)89 2399 - 0 Fax +49 (0)89 2399 - 4465

For any questions about this communication:

Tel.:+31 (0)70 340 45 00

25-08-2009

Reference 00460-EP-P	Application No./Patent No. 07018359.5 - 2114 / 2044850
Applicant/Proprietor	
Clara's ApS	

### Communication pursuant to Rule 114(2) EPC

Please find enclosed observations by a third party concerning the patentability of the invention of the above-mentioned patent application. That person is not a party to the proceedings before the EPO (Art. 115 EPC).

EPO - Munich 73

0 3. Nov. 2009

European Patent Office D-80298 München Tyskland NORDIC PATENT SERVICE

DATE: OUR REF: Fri October 30, 2009 00460-EP-P

YOUR REF:

1page per telefax in advance: +49 89 2399 4465

METHOD FOR ALTERING THE METABOLISM CHARACTERISTIC OF FOOD PRODUCTS European Patent Application No. 07018359.5

Dear Sirs,

We herewith withdraw the application.

We also refer to our letter dated October 23, 2009 requesting a refund of the examination and designation fees.

Yours very truly, Nordic Patent Service (Professional Association No. 338)

John Hård European Patent Attorney









Korga, Leokadia Kancelaria Rzecznika Patentowego ul. Bereniki 6/7 44-117 Gliwice POLOGNE

European Patent Office 10958 BERLIN GERMANY

Tel. +49 (0)30 25901 - 0 Fax +49 (0)30 25901 - 840

For any questions about this communication:

Tel.:+31 (0)70 340 45 00

Date

11-06-2009

Reference Application No./Patent No. SHXT-00802-NEP

06705724.0 - 1521 / 1889638

Applicant/Proprietor

0

Jumpsun Bio-Medicine (Shanghai) Co., Ltd.

### Communication pursuant to Rule 114(2) EPC

Please find enclosed observations by a third party concerning the patentability of the invention of the above-mentioned patent application. That person is not a party to the proceedings before the EPO (Art. 115 EPC).

Korga, Leokadia Kancelaria Rzecznika Patentowego ul. Bereniki 6/7 44-117 Gliwice POLOGNE Tel.:+31 (0)70 340 45 00

Date

20-11-2009

Reference
SHXT-00802-NEP
Application No./Patent No.
06705724.0 - 1521 / 1889638

Applicant/Proprietor
Jumpsun Bio-Medicine (Shanghai) Co., Ltd.

### Noting of loss of rights pursuant to Rule 112(1) EPC

The European patent application is deemed to be withdrawn under Article 94(4) EPC, because the invitation to file observations on the communication from the Examining Division dated 04.06.09 was not complied with.

#### Means of redress

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### Request for a decision (R. 112(2) EPC)

If the applicant considers that the finding of the European Patent Office is inaccurate, he may, within a (non-extendable) period of **two months** after notification of this communication, apply in writing for a decision on the matter. The application can only lead to the finding being reversed if this does not actually correspond to the factual or legal situation.

### Further processing (Art. 121 EPC)

The legal consequence of the failure to observe the time limit shall be deemed not to have ensued if, within a (non-extendable) period of **two months** after notification of this communication, further processing is requested by payment of the fee prescribed under Article 2(12) of the Rules relating to Fees and the omitted act is completed (R. 135(1) EPC).

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Vossius & Partner Siebertstraße 4 81675 München ALLEMAGNE European Patent Office 80298 MUNICH GERMANY

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#### Formalities Officer

Name: Mihé Tel.: 4229

or call:

+31 (0)70 340 45 00

Date

01-07-2009

Reference N1871EP	Application No./Patent No. 05779434.9 - 2107 / 1807098
Applicant/Proprietor	
Amcod Limited	

### Communication pursuant to Rule 114(2) EPC

Please find enclosed observations by a third party concerning the patentability of the invention of the above-mentioned patent application. That person is not a party to the proceedings before the EPO (Art. 115 EPC).

Under Rule 114(2) EPC you may comment on the observations.

For the Examining Division



Vossius & Partner Siebertstrasse 4 81675 München ALLEMAGNE Formalities Officer

Name: Mihé Tel.: 4229

or call:

+31 (0)70 340 45 00

Date

24-11-2009

Reference N1871EP	Application No./Patent No. 05779434.9 - 2107 / 1807098
Applicant/Proprietor	
Amcod Limited	

### Noting of loss of rights pursuant to Rule 112(1) EPC

The European patent application is deemed to be withdrawn under Article 94(4) EPC, because the invitation to file observations on the communication from the Examining Division dated 10.11.08 was not complied with.

#### Means of redress

### Request for a decision (R. 112(2) EPC)

If the applicant considers that the finding of the European Patent Office is inaccurate, he may, within a (non-extendable) period of **two months** after notification of this communication, apply in writing for a decision on the matter. The application can only lead to the finding being reversed if this does not actually correspond to the factual or legal situation.

### Further processing (Art. 121 EPC)

The legal consequence of the failure to observe the time limit shall be deemed not to have ensued if, within a (non-extendable) period of **two months** after notification of this communication, further processing is requested by payment of the fee prescribed under Article 2(12) of the Rules relating to Fees and the omitted act is completed (R. 135(1) EPC).







Lavé, Stéphanie Cabinet Lavoix 2, Place d'Estienne d'Orves 75441 Paris Cedex 09 FRANCE European Patent Office 80298 MUNICH GERMANY

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#### Formalities Officer

Name: Pfitzner Tel.: 8032

or call:

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Date

20-07-2009

Reference Application No./Patent No. VD/FW BPE 09p 07004869.9 - 2107 / 1967197

Applicant/Proprietor

Cognis IP Management GmbH

### Communication pursuant to Rule 114(2) EPC

Please find enclosed observations by a third party concerning the patentability of the invention of the above-mentioned patent application. That person is not a party to the proceedings before the EPO (Art. 115 EPC).



Lavé, Stéphanie Cabinet Lavoix 2, Place d'Estienne d'Orves 75441 Paris Cedex 09 FRANCE

#### Formalities Officer

Name: Pfitzner Tel.: 8032

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Date 27-11-2009

#### Noting of loss of rights pursuant to Rule 112(1) EPC

The European patent application is deemed to be withdrawn under Article 94(4) EPC, because the invitation to file observations on the communication from the Examining Division dated 02.04.09 was not complied with.

#### Means of redress

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#### Request for a decision (R. 112(2) EPC)

If the applicant considers that the finding of the European Patent Office is inaccurate, he may, within a (non-extendable) period of **two months** after notification of this communication, apply in writing for a decision on the matter. The application can only lead to the finding being reversed if this does not actually correspond to the factual or legal situation.

### Further processing (Art. 121 EPC)

The legal consequence of the failure to observe the time limit shall be deemed not to have ensued if, within a (non-extendable) period of **two months** after notification of this communication, further processing is requested by payment of the fee prescribed under Article 2(12) of the Rules relating to Fees and the omitted act is completed (R. 135(1) EPC).

# Thailand Delegation

- Bureau of Protection of Thai Traditional Medicine Knowledge and Medicine Plants
- Led by
  - Mr. Prapoj Petrakard, M.D., Senior Expert in Public Health.
  - Mrs. Kanchana Deewised, Director of Bureau of Protection of Thai Traditional Medicine Knowledge and Medicine Plants.