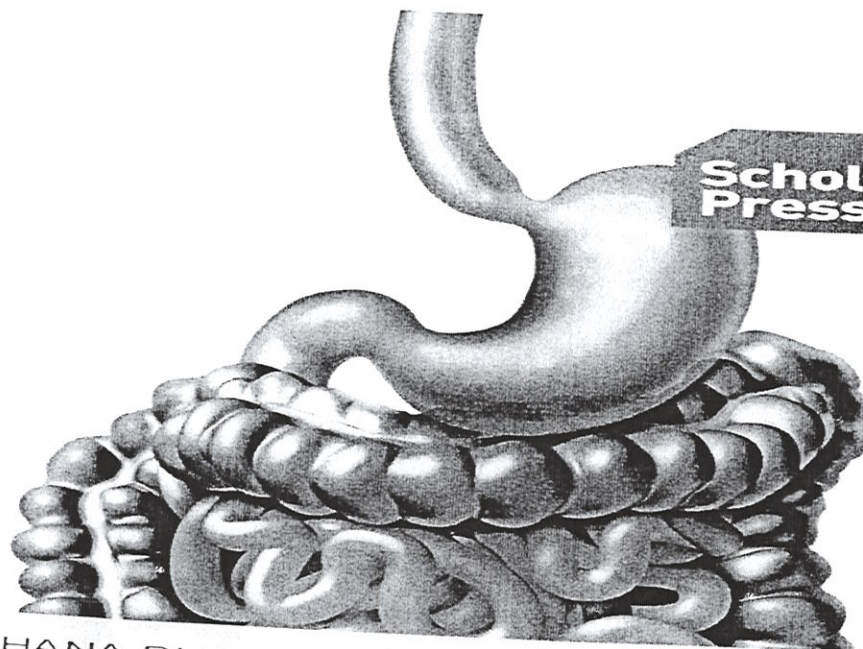


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Concise Interpretation of Annavaha Srotas
(Digestive System)

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CONCEPT OF DYSLIPIDEMIA IN AYURVEDA

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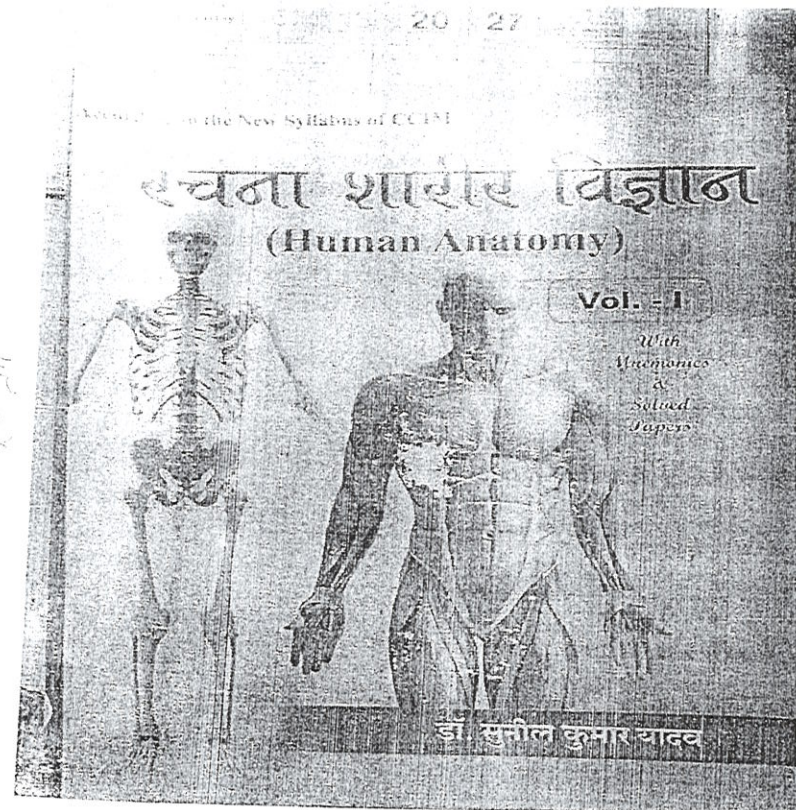
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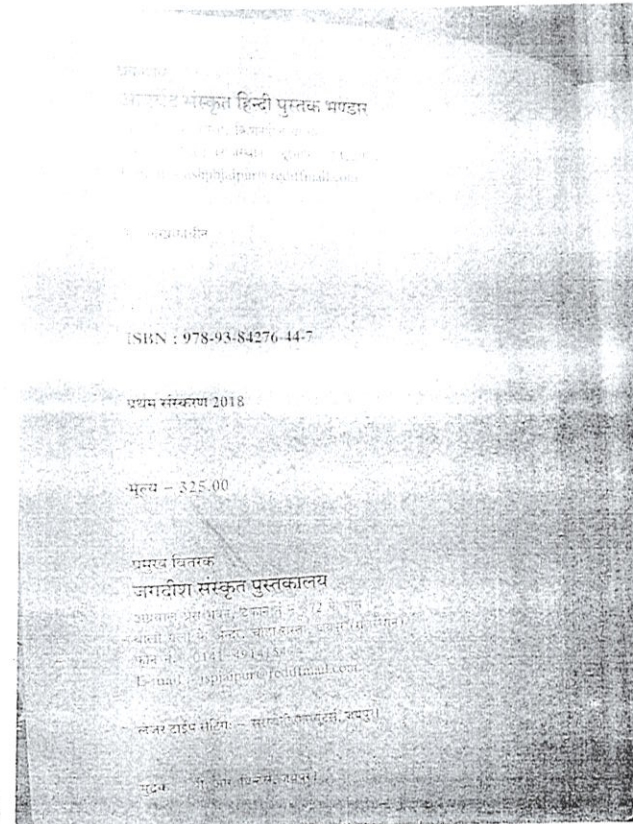
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3.Dr.Sunil Yadav





4.Dr.Sharat Porte



.vop. 1

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5. Dr. Sandeep Lahange

Arthrology In Ayurveda

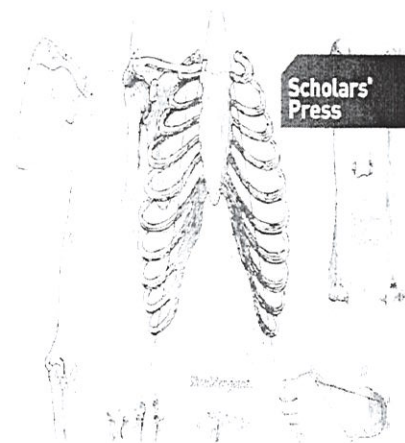
Sharira Shana of Sushruta is a descriptive appearance of Sharira Rachana. In this elaborate explanation of Sharira Rachana, he has explained Sandhi which are presentation of arthrology in the 5th chapter of Sharira Shana i.e. Sharira Sankhya Vyakhyana Shariram. According to Ascharya Sushruta, Sandhi are 210 in number, which are responsible for various movements, and are distributed throughout the body. The references concerning Sandhi are available in different Samhita but in scattered form. This is my humble try to collect that references and arrange them in proper sequence so that one can understand the concept of Ayurveda Arthrology in easy way which is mention in Ayurveda under the concept of "Sandhi Shana". This work will definitely very useful for Ayurveda Scholar, Physicians and new Researchers.



Dr. Sandeep Lahange, working as Assistant Professor at NRI, Ministry of AYUSH Govt. of India, Jaipur who is also awards the published surplus 70 research articles & working as editorial board member & reviewer over 25 National and international journals. He recently published 4 books with LAP Publication as Author/Co-Author.



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Sandeep Lahange

Arthrology In Ayurveda

Brief Description of Ayurveda Arthrology



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6. Dr. Sandeep Lahange

Ayurveda, the age old treatise given directly by God describes each and every aspect of life from the beginning of life. The source of universe comprising by organisms which are mortal, after reaching maturity these organisms enters into a sequence of changes during which development becomes arrested and retrogressive changes occur. Ancient seers of Ayurveda have classified the elements of the body under three fundamental components- Doshu, Dhātu and Mala. These three entities are responsible for the maintenance of the structural and functional integrity of the body. According to Acharya Susruta the pioneer of Ayurveda explained, the organs of the body destroy after death except for the Asthi. The Asthi do not decay after death and remains as for longer duration. Knowledge of Asthi can be traced back from Vedas passing chronologically down to Samhita. Considering its history of description and importance many methods and thought can be classified in classical texts. Each explains their own way of enumeration and nomenclature. Usual and fundamental work has sole aim to relate and convert the age-old knowledge into more Clinician-friendly.

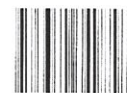
Types & Description of Asthi



Gaurav Soni
Jyoti Member
Sandeep M. Lahange

Concept of Asthi Sharir in Ayurveda

Types & Description of Asthi



978-3-330-34985-5

Types & Description of Asthi

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7. Dr. Sandeep Lahange

Ayurveda by itself can tackle the needs of health care today, though some adaptation can make it more valuable in today's world. Medicinal requirement is not always fulfilled by systemic route so there is need to change the route to administer the drug. In Ayurveda proper Nebulization therapy has been not explained but the process of Dhupana and Nasya may be analogous in some extent. Here in this work we had discussed various facts and factors for establishing new route of drug administration in form of herbal nebulizer. As we all know technique of nebulizer in form of aerosol through nebulization apparatus for herbal drugs is better route for respiratory distress. Technique is tried on principle of Dhupana and Nasya itself. Thus, this work gives the glimpse of concept of inhalation therapy described in Ayurvedic classics and establishment of newer concept of drug administration route i.e. through Nebulization. Yet a herculean work is needed for better and precise way of converting herbal drugs in form suitable for inhalation therapy.

NEW APPROACH OF DRUG ADMINISTRATION



Archana Bhargava
Sandeep Lahange
Vikash Bhargava

Dr. Archana Bhargava, Dr. Sandeep Lahange completed their B.A.M.S. in 2006 and M.D. in Ayurveda from Kashi Vaidya in 2011. They are working in Ayurveda College, Mumbai & Ph.D. (Ayurveda) in Kashi Vaidya from National Institute of Ayurveda, Jaipur in 2014. Currently they are working as Assistant Professors at M.J.F. Ayurveda College and Hospital Chhatrapati.



978-3-330-04007-5

Dr. Sandeep Lahange Bhargava

Herbal Nebulizer- New Approach of Drug Administration in Tamak Shwasa

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9.Dr.Sandeep Lahange

Embryology In Ayurveda

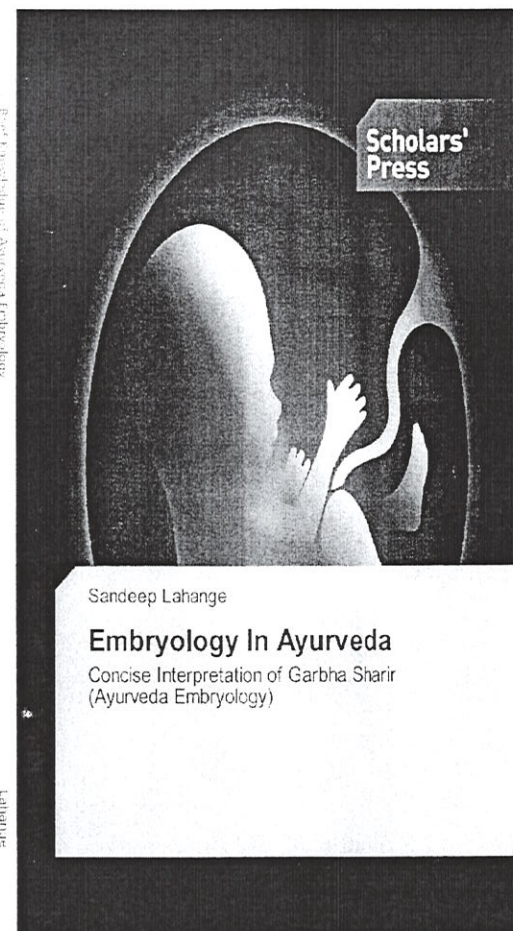
The knowledge related to Garbha Sharir (embryology) are scattered throughout the various Samhitas which are to be compiled together for comprehensive knowledge of Garbha Sharir (embryology) and for further use in various studies. Garbha Sharir helps us to understand why some children are born with organs that are abnormal. Appreciation of the factors responsible for mal-development assists us in preventing or treating such abnormalities. Ayurvedic texts have very systemic description of various facts responsible for better progeny like prescribed dietetic regimen for both partners, mode of life and qualities of Shukra, healthy Garbhasthaya and Shonita for conception, thus ultimately a better offspring. This is the universal fact that embryo develops by the fusion of male and female gametes. The same fact was mentioned in all the Ayurvedic Samhitas in ancient time that Garbha is formed by fusion of Shukra, Shonita which grows up with the help of nutrition received by Aahar Ras of mother through out the gestational period. Present work explores the knowledge regarding the concept of embryology and its related terms in our ancient system of medicine.



Dr. Sandeep Madhukar Lahange, working as Assistant Professor at NIA, Ministry of AYUSH Govt. of India, Jaipur since last 9 years. He published surplus 70 research articles & working as Editorial Board Member & Reviewer over 25 National and International Peer reviewed Journals. He recently published 3 books with LAP Publication as Author/Co-Author.



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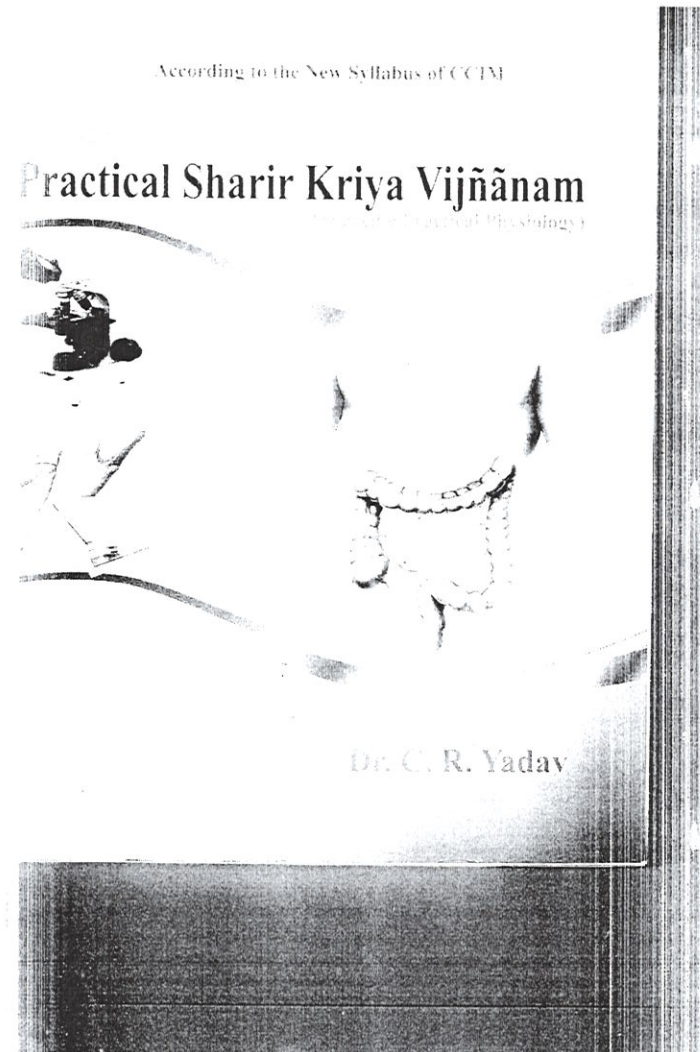
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10 Dr.Sunil Yadav



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Invention Title	" A METHOD OF ISOLATION OF EXTRACT OF GENIOSPORUM PROSTRATUM (L) BENTH AND ITS ANTIMICROBIAL AND ANTIACNE ACTIVITY"
Publication Number	11/2013
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Field Of Invention	PHARMACEUTICALS
Classification (IPC)	A61K

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Abstract:

Present study was designed to investigate the antimicrobial and antiacne activity of chloroform extract of Geniosporum Prostratum (L) Benth. Plant Geniosporum prostrat collected from Cheranmadevi , Tirunelveli district, Tamil Nadu and identification was done by Botany central council for Reserch in Ayurveda & Siddha Govt, of India .The le were air-dried and ground into powder and chloroform extract was prepared. Phytochemical studies were carried out and antimicrobial anti acne activity was carried out t S. Aureus and E. Coli. 500 mg/kg and 1000 mg/kg was employed for the antibiotic and antiacne activity. From the Pharmacological and Phytochemical screening of crude e Geniosporum Prostratum (L) Benth it was concluded that chloroform extract of whole plant of Geniosporum Prostratum have three chemical compound B-sitosterol, Urso 5-O-desmethylnobiletin and chloroform extract was found to have significant anti microbial and anti acne toprotactive activity.

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Patent Search

Invention Title	A NOVEL HERBAL COMPOSITION OF AQUEOUS EXTRACT OF CAPPARIS DECIDUA AND ITS ANTI OBESITY ACTIVITY
Publication Number	11/2017
Publication Date	17/03/2017
Publication Type	INA
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Field Of Invention	PHARMACEUTICALS
Classification (IPC)	A61K 36/00

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Deepak Godara	MMCP, Maharishi Markandeshwar University, Mullana, Ambala, Haryana - 133207	India	India

Abstract:

Obesity is a medical condition in which excess body fat has accumulated to the extent that it may have an adverse effect on health, leading to reduced life expectancy and increased health problems. Body mass index (BMI) is a measurement which compares weight and height, defines people as overweight (preobese) if their BMI is between 30 kg/m², and obese when it is greater than 30 kg/m². Rats were randomly divided into five groups; of six each. Group I: was served as vehicle control (received 1ml/100 g normal saline solution); Group II: served as cafeteria diet control, Group III and Group IV receives aqueous extract in dosages 400 mg/kg and 800 mg/kg respectively. Group V served reference standard drug (Sibutramine 5 mg/kg/day, po). The treatment was continued for 40 days. The aqueous extract of unripe fruit of Capparis decidua shows g antiobesity activity.

Complete Specification**FIELD OF THE INVENTION**

This invention relates to a method and novel herbal composition of aqueous extract of Capparis decidua and its anti obesity activity.

BACKGROUND OF THE INVENTION

Obesity is a medical condition in which excess body fat has accumulated to the extent that it may have an adverse effect on health, leading to reduced life expectancy and/or increased health problems.

Body mass index (BMI), a measurement which compares weight and height, defines people as overweight (pre-obese) if their BMI is between 25 and 30 kg/m², and obese when it is greater than 30 kg/m².

Obesity increases the likelihood of various diseases, particularly heart disease, type 2 diabetes, obstructive sleep apnea, certain types of cancer, and osteoarthritis. Obesity is most commonly caused by a combination of excessive food energy intake, lack of physical activity, and genetic susceptibility although a few cases are caused primarily

by genes, endocrine disorders, medications or psychiatric illness. Evidence to support the view

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FIELD OF INVENTION	PHARMACEUTICALS
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PRIORITY DATE	NA
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Application Status

APPLICATION STATUS	Application Published
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Patent Search

Invention Title	A METHOD OF ISOLATION OF CAPPARISTEROL FROM CAPPARIS DECIDUA AND ITS ANTI OBESITY ACTIVITY
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Complete Specification**FIELD OF THE INVENTION**

This invention relates to a method of isolation of capparisterol from capparis decidua and its antiobesity activity.

BACKGROUND OF THE INVENTION

Obesity is a medical condition in which excess body fat has accumulated to the extent that it may have an adverse effect on health, leading to reduced life expectancy and/or increased health problems.

Body mass index (BMI), a measurement which compares weight and height, defines people as overweight (pre-obese) if their BMI is between 25 and 30 kg/m², and obese when it is greater than 30 kg/m².

Obesity increases the likelihood of various diseases, particularly heart disease, type 2 diabetes, obstructive sleep apnea, certain types of cancer, and osteoarthritis. Obesity is most commonly caused by a combination of excessive food energy intake, lack of physical activity, and genetic susceptibility, although a few cases are caused primarily by genes, endocrine disorders, medications or psychiatric illness. Evidence to support the view that some obese people eat little yet gain weight due to a slow metabolism is limited; on average obese people have a greater energy expenditure than their thin counterparts due to the energy required to maintain an increased body mass.

SUMMARY OF THE INVENTION

Obesity is a medical condition in which excess body fat has accumulated to the extent that it may have an adverse effect on health, leading to reduced life expectancy and/or increased health problems. Body mass index (BMI) is a measurement which compares weight and height, defines people as overweight (pre-obese) if their BMI is

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Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Application Details

APPLICATION NUMBER	2869/DEL/2015
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/09/2015
APPLICANT NAME	1 . Deepak Godara 2 . Dr. Vichitra Kaushik 3 . Gaurav Sharma 4 . Dr. Vipin Saini
TITLE OF INVENTION	A METHOD OF ISOLATION OF CAPPARISTEROL FROM CAPPARIS DECIDUA AND ITS ANTIOBESITY ACTIVITY
FIELD OF INVENTION	PHARMACEUTICALS
E-MAIL (As Per Record)	ashish.iprindia@hotmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	ashish.iprindia@hotmail.com
PRIORITY DATE	NA
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	17/03/2017

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Patent Search

Invention Title	A NOVEL HERBAL DRUG FOR ANXIETY
Publication Number	02/2018
Publication Date	12/01/2018
Publication Type	INA
Application Number	201611023393
Application Filing Date	08/07/2016
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	PHARMACEUTICALS
Classification (IPC)	A61K36/185

Inventor

Name	Address	Country	Nation
Dr. Bidhan Mahajon	Department of Dravyaguna vigyan, National institute of Ayurveda, Jaipur, Rajasthan	India	India
Dr. Rupashri Nath	P.G. Department of Roga Nidana and Vik?ti Vijñana, National Institute of Ayurveda, Jaipur, Rajasthan, India.	India	India
Dr. A. Ramamurthy	National Institute of Ayurveda, Jaipur, Rajasthan	India	India
Dr. B Ravishankar	SDM Center for Research in Ayurveda & allied Sciences, Udupi, Karnataka.	India	India
Gaurav Sharma	Pharmacologist, Department of Dravyaguna Vigyan, National Institute of Ayurveda, Jaipur, Rajasthan	India	India

Applicant

Name	Address	Country	Nation
Dr. Bidhan Mahajon	Department of Dravyaguna vigyan, National institute of Ayurveda, Jaipur, Rajasthan	India	India
Dr. Rupashri Nath	P.G. Department of Roga Nidana and Vik?ti Vijñana, National Institute of Ayurveda, Jaipur, Rajasthan, India.	India	India
Gaurav Sharma	Pharmacologist, Department of Dravyaguna Vigyan, National Institute of Ayurveda, Jaipur, Rajasthan	India	India

Abstract:

Flemingia strobilifera(L.)W.T.Aiton is a medicinal plant commonly known as Kamalu, which belongs to the family Fabaceae. In traditional medicine root of the plant were used for various ailments such as insomnia, epilepsy, ulcer, inflammation and microbial infection. The present study has been carried out to evaluate the anxiolytic activity of aqueous extract of root of plant Flemingia strobilifera in elevated zero maze test and mirror chamber test. Twenty four Swiss albino mice of either sex were divided into four different groups of mice each. Group I received normal tap water at a dose of 10ml/kg, served as normal control. Group II received diazepam 2mg/kg and served as reference standard. Group III received aqueous extract of root of plant Flemingia strobilifera at a dose of 200mg/kg and 400mg/kg respectively. In acute toxicity study there was no mortality up to 2000mg/kg. The aqueous extract of root of plant Flemingia strobilifera has shown significant anxiolytic activity at both the doses. In elevated zero maze test latency period to enter into open arm has been significantly reduced and there is a significant increase in the time spent in open arm and open head dips in comparison to control group (**p<0.01). From the mirror chamber test it is observed that there is a significant increase in the number of partial entries and marked increase in the time spent inside the chamber and number of full entries in comparison to normal control. The phytochemical analysis of aqueous extract of root of plant Flemingia strobilifera revealed the presence of Saponin, Flavonoids, Steroids, Terpenoids and Coumarins. From the present study it can be concluded that the aqueous extract of root of Flemingia strobilifera has anxiolytic activity and the presence of Flavonoids might be the chemical entity responsible for its anxiolytic activity. Further scientific studies are required to validate the therapeutic effect to elucidate the exact mechanism of action.

Complete Specification

Claims: The result obtained from the Mirror chamber test indicates that the aqueous extract of *Flemingia strobilifera* (AEFS) has considerable anxiolytic activity as compared to the control group. The time spent inside the mirror chamber increased from 41.5 ± 13.42 (sec) in control to 74.2 ± 17.46 (sec) in AEFS at a dose of 400 mg/kg. The latency of full entry inside the mirror chamber greatly reduced from 80 ± 44.21 in control to 28.8 ± 5.598 in AEFS at a dose of 400mg/kg. There is a significant increase in the number of partial entry in AEFS administered at a dose of 400mg/kg in comparison to control group (* $p < 0.05$). Standard drug (diazepam) has shown significant increase in the number of full entries into the mirror chamber in comparison to control group (* $p < 0.05$). The AEFS at dose of 400mg/kg showed increased number of full entry into the mirror chamber and result is comparable with that of diazepam administered group. The result obtained from Elevated zero maze test clearly shows a significant anxiolytic activity of AEFS as compared to control group. The latency period to enter into the open arm significantly reduced in AEFS administered group at 200mg/kg and 400mg/kg (** $p < 0.01$) in comparison to control group. There is a significant increase in the time spent in open arm and number of open head dips in AEFS at 200g/kg in comparison to control group (** $p < 0.01$). The obtained results were comparable with reference standard drug (diazepam). The underlying mechanism or pathology of most of the anxiety disorders is not completely understood. From past research studies has shown the involvement of different ion channels and neurotransmitters such as GABAergic, serotonergic, adrenergic and dopaminergic system in anxiety disorders^{16, 17}. Currently the benzodiazepines and SSRIs are most commonly employed treatment for the common anxiety disorders. The plant *Flemingia strobilifera* has wide spread traditional use in the treatment of various disorders. There are no reports of scientific evaluation of its anxiolytic activity. Hence the present study was undertaken to evaluate its anxiolytic activity using Elevated Zero maze test and Mirror chamber test.

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Ministry of Commerce and Industry

Application Details

APPLICATION NUMBER	201611023393
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	08/07/2016
APPLICANT NAME	1 . Dr. Bidhan Mahajon 2 . Dr. Rupashri Nath 3 . Gaurav Sharma
TITLE OF INVENTION	A NOVEL HERBAL DRUG FOR ANXIETY
FIELD OF INVENTION	PHARMACEUTICALS
E-MAIL (As Per Record)	bidhanmahajon@gmail.com
ADDITIONAL-EMAIL (As Per Record)	gauravbilwal@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	NA
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	12/01/2018

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Patent Search

Invention Title	FORMULATION AND EVALUATION OF A NOVEL HERBAL ANTI FUNGAL OINTMENT.
Publication Number	03/2018
Publication Date	19/01/2018
Publication Type	INA
Application Number	201611023916
Application Filing Date	13/07/2016
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	PHARMACEUTICALS
Classification (IPC)	A61K36/58

Inventor

Name	Address	Country	Natic
Dr. Manisha Tatobaji Talekar	P.G. Department Roga Nidana and Vik?ti Vigyan, National Institute of Ayurveda, Jaipur, Rajasthan, India.	India	India
Dr. Rashmi Vilas Patekar	P.G. Department Dravya guna Vigyan, National Institute of Ayurveda, Jaipur, Rajasthan, India.	India	India
Gaurav Sharma	Pharmacologist, P.G. Department of Dravya guna Vigyan, National Institute of Ayurveda, Jaipur, Rajasthan, India.	India	India

Applicant

Name	Address	Country	Natic
Dr. Manisha Tatobaji Talekar	P.G. Department Roga Nidana and Vik?ti Vigyan, National Institute of Ayurveda, Jaipur, Rajasthan, India.	India	India
Dr. Rashmi Vilas Patekar	P.G. Department Dravya guna Vigyan, National Institute of Ayurveda, Jaipur, Rajasthan, India.	India	India
Gaurav Sharma	Pharmacologist, P.G. Department of Dravya guna Vigyan, National Institute of Ayurveda, Jaipur, Rajasthan, India.	India	India

Abstract:

Novel Formulation of Herbal Anti Fungal Ointment have pH 4.1. It contents several herbal ingredients and have found powerful effect against A.varis, A.niger, P.notatum microorganisms Formulated anti fungal ointment have pH 4.1. Ointment have Zone of Inhibition against A.niger, A.varis, P.notatum 25mm, 21mm, 23mm and have Activity 0.64, 9.54 and 0.59. It indicates good antifungal property.

Complete Specification

FORMULATION AND EVALUATION OF A NOVEL HERBAL ANTI FUNGAL OINTMENT.

Field of invention

This invention based on development and Evaluation of anti fungal ointment.

Background of Invention

The development of topical drug delivery systems designed to have systemic effects appears to be beneficial for a large number of drugs on account of the several advantages over conventional routes of drug administration in order to optimize both the release of the drug from the topical vehicle and skin permeation¹. The topical antifungal agents have varying mechanisms of action and different spectrums of activity and have few adverse reactions or drug interactions. This novel Antifungal ointment contents several herbal ingredients and have found powerful effect against A.varis, A.niger, P.notatum microorganisms.

MATERIALS AND METHODS

Preparation of Ointment

Preparation of oil phase

Derris indica (Seeds Oil), Cetostearyl alcohol, White bees wax were melted in a stainless steel vessel. To this mixture liquid paraffin were added and allowed to melt. The temperature of oil phase maintained between 65 –70°C.

Preparation of Aqueous phase

Stearic acid. Water was heated to 65 –70°C. In this weighed Curcuma longa (Rhizome). Aqueous extract. Berberis chitria (Root) Aqueous extract. Balanites aegyptiaca (Seed

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Application Details

APPLICATION NUMBER	201611023916
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/07/2016
APPLICANT NAME	1 . Dr. Manisha Tatobaji Talekar 2 . Dr. Rashmi Vilas Patekar 3 . Gaurav Sharma
TITLE OF INVENTION	FORMULATION AND EVALUATION OF A NOVEL HERBAL ANTI FUNGAL OINTMENT.
FIELD OF INVENTION	PHARMACEUTICALS
E-MAIL (As Per Record)	gauravbilwal@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	NA
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	19/01/2018

Application Status

APPLICATION STATUS	Application Published
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MEMORANDUM OF UNDERSTANDING

BETWEEN

**MAHATMA GANDHI AYURVED COLLEGE, HOSPITAL, AND RESEARCH CENTER
DATTA MEGHE INSTITUTE OF MEDICAL SCIENCES (Deemed to be University),
WARDHA**

AND

**NATIONAL INSTITUTE OF AYURVEDA ,AMER ROAD , JAIPUR RAJASTHAN AN
INSTITUTE ESTABLISHED BY MINISTRY OF AYUSH,GOVT. OF INDIA HAVING ITS
REGISTERED OFFICE AT JORAVAR SIGH GATE, AMER ROAD ,JAIPUR 302002**

FOR

**RESEARCH, TRAINING PROGRAMS, COLLABORATIVE PROGRAMS ON EDUCATION,
FACULTY & STUDENTS EXCHANGE & RESEARCH**

**Memorandum of understanding Between Mahatma Gandhi Ayurved College,
Hospital and Research Center, Swangi Meghe, of Datta Meghe Institute of Medical
Sciences (Deemed to be University), Wardha and National Institute of Ayurveda
,Amer Road , Jaipur Rajasthan An Institute Established by Ministry of Ayush,Govt.
of India having its Registered Office at Joravar Sigh Gate, Amer Road ,Jaipur
302002**

This Memorandum of Understanding (MOU) this "Understanding " is executed on 23rd of the January month of 2018 by and between the Mahatma Gandhi Ayurved College, Hospital and Research Center, Sawangi Meghe, Wardha of Datta Meghe Institute of Medical Sciences (Deemed to be University) established u/s 3 of the UGC Act, 1956 having its Registered Offices at JNMC Campus, Sawagni, Meghe, Wardha-442001, Maharashtra (here in after referred to as "MGAC of DMIMS (DU)" which expression shall, unless repugnant to the subject or context thereof, be deemed to include and mean to its nominees, successors and permitted substitutes or assigns of the ONE PART

with

National Institute of Ayurveda ,Amer Road , Jaipur Rajasthan an Institute Established by Ministry of Ayush,Govt. of India having its Registered Office at Joravar Sigh Gate, Amer Road ,Jaipur 302002 a premier Institute of Ayurvedic Education & Health Care

निदेशक
राष्ट्रीय आयुर्वेद संस्थान
जयपुर

[Signature]

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[Signature]
Registrar

Services, Research in Jaipur Rajasthan (Here in after referred to as "NIA JAIPUR, which expression shall, unless repugnant to the subject or thereof, be deemed to include and mean to its nominees, successors and permitted substitutes or assigns) on another PART either or both of which may be referred to as a "party " or the "parties" respectively as the context demands.

WHERE AS

- A. The NIA Jaipur desire to collaborate in the field of intra and interdisciplinary research, Ayurved Medical Education, Panchakarma Ergonomic, Drug Development, Faculty and student exchange Program for the mutual benefit by utilizing the expertise and infrastructure existing in both Institutions.
- B. Based on the strengths of the MGAC of DMIMS (DU) and NIA JAIPUR, the MGAC of DMIMS (DU) is desirous of collaborating with NIA JAIPUR, which would provide Education / Research Program/ Faculty & Student Exchange Academic Programs.

MOU is to establish hereby a formed understanding of co-operation and friendship which is intended to have further the academic objective of each institution and to promote better understanding between the faculty and students of MGAC of DMIMS (DU) and the faculty and students of NIA JAIPUR.

Under this memorandum of understanding the two Institutions will proceed to implement the following endeavors and exchanges of materials and personnel.

ARTICLE 1: OBJECTIVE

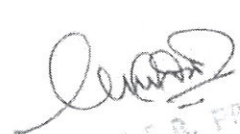
The parties, subject to the terms of this memorandum of Understanding and the laws, rules, regulations and national from time to time in force, agree to strengthen, promote and develop co-operations in the field of Indian system of medicine (Ayurveda) and inter Disciplinary Medicine between the two Institutions.

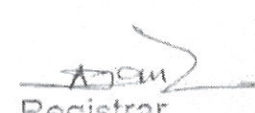
ARTICLE II: AREAS OF CO-OPERATION

Co-operation shall be carried out, subject to availability of funds and the approval of the competent authority of MGAC of DMIMS (DU) and NIA JAIPUR, through such activities or programs as:

Exchange Programs:

- Teachers
- PG Scholars


K. S. R. PRASAD
Vice-Dean (PG)
MGAC DMIMS (DU)
जयपुर


Registrar
Datta Meghe Institute of Medical Sciences
(Deemed to be University)
Sawangi (Medh) PIN - 442 107
Wardha Dist. Maharashtra

Faculty and PG & UG students will be exchanged from both Universities every year for different programs like Workshops, Guest Lectures, Short Time Training Courses, Seminars, Short Term Research Programs and Projects Works etc. As agreed by both Universities from time to time.

Utilization of Research Facilities, Joint Research activities

- Faculty and students of both Universities will be allowed, with prior permission, to utilize the research facilities of the Universities by prescribed nominal fee, both Institutions will facilitate the students & faculty by providing access to facilities, guidance of concerned faculty and research Staff.
- Both will promote and facilitate inter-institutional, interdisciplinary research and collaborative research projects by faculty and students of the institutions. Short term research projects, summer research projects etc will be allowed.

Multi-Centric studies

To provide evidence based clinical research and Multi-center clinical studies will be taken up. Faculty of both Universities will be allowed to projects on collaborative multi-centric studies. Various laboratory facilities, expertise of faculty will be allowed for it.

Continuation of PG/PhD Thesis Activities

Students of both Universities will be allowed to have extension of their dissertation/ thesis activities utilizing facilities and expertise in these institutions.

Online Meetings/ Online Guest Lectures

Innovative Methods, Information Communication & Technology will be used to have better interaction among faculty and students of Universities through online guest Lectures, Group Interactions through Skype etc. will be organized.

Knowledge sharing

Both Universities will share the knowledge through various academic activities, interaction of faculty, students, online discussions etc. They will allow partner Institution to utilize the databases, educational material, case presentations, Practical manuals, dissertations etc.

Curriculum Development

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जयपुर

Dr. K. S. R. PRASAD
Vice-Dean (PG)
MGACH & RC, WARDHA (M.S.)

Registrar
Datta Meghe Institute of Medical Sciences
(Deemed to be University)
Sawangi, Wardha, Dist. Maharashtra
Page 3 of 7

- Both Universities will work in this area of Curriculum development by organizing workshops, brain storming sessions, skill development programs, CME programs collaboratively. They will to create better teaching methodology, evaluation methods, feedback methods, multimedia in teaching, and simulated practical for Ayurveda.
- Participation in seminars and academic developments
- Planning Joint International Conferences and Workshops.
- Planning Research Publications in the Journals published by each University
- Implementation of Joint Educational Programs in each University within the identified areas.
- Exchange of academic materials and other information
- The terms of such mutual co-operation and necessary budget for each specific Program and activity that is implemented under the terms of this MoU. Each Institution will designate a Liaison Officer to develop and co-ordinate specific activities or programs.

ARTICLE III: FINANCIAL ARRANGEMENTS


- The financial arrangements to cover expenses for the identified research activities undertaken within the framework of this memorandum of understanding shall be mutually agreed upon by both the parties on a case- by - case basis subject to availability of funds.

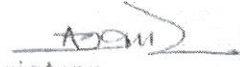
ARTICLE IV: PROTECTION OF INTELLECTUAL PROPERTY RIGHTS

- a) The protection of intellectual property rights shall be enforced in conformity with the national laws, rules regulation.
- b) Not with standing anything in paragraph (a) above, the intellectual property rights in respect of any technological development, and any products and services development, carried out:
 - i. Jointly by the parties or research results obtained through the joint activity effort by the parties, shall be jointly owned by the parties in accordance with the terms to be mutually agreed upon and
 - ii. Solely and separately by the party or the research results obtained through the sole and separate effort of the party, shall be solely owned by the party concerned,
 - iii. The terms and conditions in the execution of the research projects shall be decided on case to case basis.

ARTICLE V: CONFIDENTIALITY

- A. Each party undertakes to observe the confidentiality and secrecy of documents, information and other data received from, or supplied to, the other party during the


 Dr. K. S. R. PRASAD
 Vice-Dean (PG)
 MGACH & RC, WARDHA (M.S.)


 Registrar
 Datta Meghe Institute of Medical Science
 (Deemed to be University)
 Sawang, (Meghe) PIN - 442 107
 Wardha Dist. Maharashtra


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period of the implementation of this memorandum of Understanding or any other agreements made pursuant to this memorandum of Understanding.

- B. Both parties agree that the provisions of this Article shall continue to be binding between the parties notwithstanding the termination of this memorandum of Understanding.

ARTICLE VI: SETTLEMENT OF DISPUTES

Any difference or dispute between the parties concerning the interpretation and/or implementation and/or application of any of the provision of this memorandum of Understanding shall be settled amicably through mutual consultation and/or negotiation between the parties. In case, the dispute occurred between both the parties and if the same is not resolved through negotiation or by adopting amicable measures, in that case the matter will be settled through arbitration and the arbitrator will be appointed with the mutual consent of both the parties.

ARTICLE VII: ENTRY INTO FORCE, DURATION AND TERMINATION

This understanding shall come into force and take effect from the date first written above and shall be valid for a period of FIVE (5) YEARS and may be renewed thereafter by the parties upon mutual consent.

This understanding may be terminated by either party by providing 90 (ninety days) written notice to the other party before the beginning of academic year, and the termination would be effective at the end of the notice period.

And the termination of the Understanding shall be on the understanding that students/faculty who have already enrolled in any of the courses/research programs as at the time of termination shall remain entitled to complete their respective courses/research programs and be eligible to appear assessment conducted by the MGAC of DMIMS (DU) and NIA JAIPUR conducted to obtain an award. The obligation of the parties shall continue to be in force during such period, notwithstanding any termination of the understanding.

Now this MOU Witnesses as follows the Roles and Responsibilities of Either party

a) Common Responsibilities

- Both institutes have to provide minimal accommodation for students/ faculty of other institute in their institute on nominal costs.
- Students/ faculty have to pay the prescribed fee for the facilities they have used.

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[Signature]

Registrar

Datta Meghe Institute of Medical Sciences
(Deemed to be University)
Sawangi (Majhe) PIN - 442 107
Wardha Dist. Maharashtra

- Institutions have to facilitate for easy exchange programs and collaborative work. Administrative hurdles to be cleared at higher level by clear transparent methodology.
- Periodic meeting of co-ordinations should be arranged to have collaboration and co-operation among faculty of two universities.
- Both parties understand that all financial arrangements will have to be negotiated and will depend on the availability of funds.

b) Roles & Responsibilities of NIA Jaipur and MGAC of DMIMS (DU)

- MGAC of DMIMS (DU) and NIA JAIPUR will facilitate for collaborative activities in teaching, education and research. Both will arrange facilities for conducting activities including in house and visiting members from academic institutes.
- MGAC of DMIMS (DU) and NIA JAIPUR shall also arrange to appoint a Coordinator who shall be available at the Centre where the programs being offered, in order to facilitate proper coordination between the MGAC of DMIMS (DU) and NIA JAIPUR covering all aspects relating to conduct of training, research and all other activities coming within the ambit of conducting such programs
- All students will be governed by the regulation of respective parent institutions. i.e. MGAC of DMIMS (DU) or NIA JAIPUR, as specific to the course or program offered, which shall be provided by the MGAC of DMIMS(DU) or NIA JAIPUR to the students at the start of the course/ program.
- MGAC of DMIMS (DU) and NIA JAIPUR shall maintain both in physical as well as in an electronic format (wherever possible or available) the details (including academic records) of all students/ faculty enrolled for the programs, and shall provide the same to MGAC of DMIMS (DU) and NIA JAIPUR on request.
- NIA JAIPUR will allow to utilize its facilities for education, teaching and research collaboration, where in the MGAC of DMIMS (DU) will allow the all facilities of the research available at MGAC premises and CRL of DMIMS. From both DMIMS (DU) and NIA JAIPUR faculty will provide guidance time to time.

c) Miscellaneous:

- A Co-ordination Committee consisting of the following will monitor the academic and research programs and all related operational activities.

1. Vice Chancellor- DIMIMS(DU)

राष्ट्रीय आयुर्वेद प्रशिक्षण
केंद्र
जयपुर

[Signature]

[Signature]

[Signature]
DR K. S. PRASAD
V. C. DMIMS (DU)
Datta Meghe Institute of Medical Sciences
Warananagar, Warananagar (M.S.)
Registrar
Page 6 of 7
412-107

2. Director NIA Jaipur
3. Registrar - DMIMS (DU)
4. Prof. R.K.Sharma, Chief Coordinator (NAAC)- NIA Jaipur
5. Prof. KSR Prasad, Vice Dean, MGACHRC, Wardha

d) Coordinators of each center

- At DMIMS (DU), the Registrar or Prof. KSR Prasad will oversee the implementation of the memorandum of Understanding.
- At NIA Jaipur, Prof .R.K.Sharma, will oversee the implementation of the memorandum of Understanding.

Any variations or amendment or addition of/ to this Understanding shall be mutually agreed to in writing and executed by or on behalf of each of the parties, the MGAC of DMIMS (DU) and NIA JAIPUR.

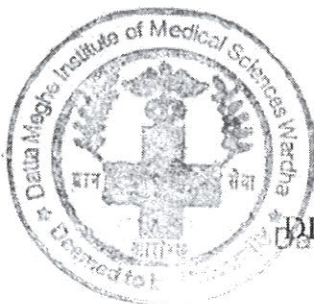
This Understanding represents the entire understanding as to the subject matter hereof and supersedes any prior understanding between the parties on the subjects matter hereof.

In witness whereof, the parties hereto have executed this understanding as of the date first above mentioned.

Sealed & signed for and on behalf of

Sealed & Signed for and on behalf of

Director, NIA, Jaipur



Registrar

DMIMS (Deemed to be University)
Datta Meghe Institute of Medical Sciences
(Deemed to be University)
Sawangi (Meghe) PIN - 442 107
Wardha Dist. Maharashtra

Seal & Sign of Witness

Seal & Sign of Witness

Prof. R.K.Sharma,
Chief Coordinator (NAAC)
NIA Jaipur

Prof. KSR Prasad,
Vice Dean (PG),
MGACHRC, Wardha

Dr. K. S. R. PRASAD

Vice - Dean (PG)

MGACHRC, Wardha (M.C)



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Conservation of Cow (Rs.)

Stamp Duty Amount(Rs.)

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: 01-Feb-2018 01:13 PM

: SHCIL (FI)/ rjshcil01/ CHOUGHAN/ RJ-JP

: SUBIN-RJRJSHCIL0136521346166690Q

: DIRECTOR NATIONAL INSTITUTE OF AYURVEDA JAIPUR

: Article 4 Affidavit

: NA

: 0

(Zero)

: DIRECTOR NATIONAL INSTITUTE OF AYURVEDA JAIPUR

: M G A C H AND R C OF D M I OF M S C WARDHA

: DIRECTOR NATIONAL INSTITUTE OF AYURVEDA JAIPUR

: 100

(One Hundred only)

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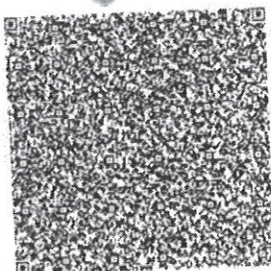
(Ten only)

: 10

(Ten only)

: 120

(One Hundred And Twenty only)



Registrar

Datta Meghe Institute of Medical Sciences
(Deemed to be University)
Sawangi (Meghe) Pin - 442 107
Wardha Dist. Maharashtra

Dr. K. S. R. PRASAD

Vice - Dean (PG)

MGACH & RC, WARDHA (M.C.)

UP 0005749438

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SK



Memorandum of Understanding

This Agreement is made on the28.th day of Nov, 2018

BETWEEN

BVG Life Sciences Limited, is BVG Group Company (hereinafter referred to as "BVGLSL" which expression, unless repugnant to the subject or context therein, shall mean and include its affiliates, employees, assignees, subsidiaries, nominees, agents & successors-in-interest), of the FIRST PART.

AND


National Institute of Ayurveda (hereinafter referred to as NIA which expression, unless repugnant to the subject or context therein, shall mean and include its affiliates, employees, assignees, subsidiaries, nominees, agents & successors-in-interest), of the SECOND PART.

BVGLSL and NIA shall hereinafter sometimes individually be referred to as the "Party" and collectively as the "Parties".

WHEREAS:-

The parties have discussed and deliberate on various items of mutual interest and benefits and have deemed expedient to execute this memorandum of understanding so as to mutually cooperate as per below:

- A. NIA has facility and expertise for validation of ayurvedic and herbal leads in the field of human health. BVGLSL has shown interest for joint validation and product development in the field of herbal human health.
- B. The new herbal leads for validation will be chosen jointly by NIA & BVGLSL, before entering into the pre-clinical and clinical validation. All the study protocols (pre-clinical and clinical) will be developed jointly in the consultation with the experts. After completion of pre-clinical validation, the data will be reviewed jointly and then will be taken for clinical validation.
- C. NIA will pre-clinically and clinically (efficacy and safety/toxicity) validate the herbal technologies through their scholars/students/experts using standard protocols. All the expenses of the pre-clinical, formulation development and clinical validation will be borne by BVGLSL, on the actual basis as per NIA guidelines on project to project basis. NIA will develop the proposal and budget and share with BVGLSL for review and acceptance, before initiating the studies. The products developed under this collaboration will be launched mainly through AYUSH route.
- D. IP rights on the new herbal or modified Ayurvedic technologies developed by BVGLSL will be held by BVGLSL and expenses in relation to IP protection will also be borne by BVGLSL. However, the students/experts of NIA and BVGLS who will contribute in the validation activities will have right to jointly publish the outcomes, excluding the confidential data important for commercialization, which will be decided jointly.
- E. BVGLSL will commercialize the successful and selected technologies developed under this collaboration and will recognize the efforts of NIA in validation and mention on the product labels.
- F. NIA will work as technology partner and share the technical details, required for the regulatory approvals
- G. NIA will also help in formulation development from lab to pilot level and BVGLSL will upscale this upto production level with help of NIA. All the expenses will be borne by BVGLSL.



- H. NIA and BVGLSL will not disclose any confidential and technical information of joint work with any other party, without consultation and approval of each other. If any of the selected herbal technologies/products fails at pre-clinical or clinical stage, then also the outcomes of the study will not be shared with the third party by NIA and further work on those technologies will be done after consultation and agreement of BVGLSL.
- I. BVGLSL has a well established R&D facilities for DNA fingerprinting/ barcoding of the herbs, quality control of herbs and optimization of their formulations, quantification of phytochemicals in the herbs etc. which may be used by NIA for their academic project activities, without any charges.
- J. Both the parties may work together on multiple scientific projects other than drug discovery and validation activities such as submission of joint R&D proposals for funding, manpower training and exchange, etc. where BVGLSL will be the industry partner. BVGLSL will provide industrial training to staff/students of NIA Jaipur.
- K. Excluding the herbal technologies/formulations of BVGLSL, if BVGLSL and NIA jointly develops some new effective herbal medications, IP will be held jointly and BVGLSL will be offered the technology for commercialization by paying royalty to NIA on ex-factory price, as per mutually agreed terms and conditions. BVGLSL will have exclusive rights to do commercialization for the period of fifty years.
1. **Arbitration:**
If any dispute arises between the parties in connection with the interpretation or implementation of this agreement, or any clause of this agreement, the parties shall endeavour to settle such dispute amicably. In case of failure by the parties to resolve the dispute in the manner set out above within 60 (Sixty) days from the date when the dispute arose, the dispute shall be referred to arbitration of a sole arbitrator, having summary powers to be appointed by the statutory auditors of the company. The place of arbitration shall be at Pune. The arbitration proceeding shall be governed by the arbitration and conciliation act, 1996 as may be amended and modified from time to time.
2. **Governing Law and Jurisdiction**
This Agreement shall be governed by and interpreted in all respects in accordance with the laws of India and the parties hereby submit to the exclusive jurisdiction of the Courts at Jaipur with respect to the subject matter of this Agreement. Notwithstanding any other rights of either

Party, either Party may seek injunctive relief in any court of competent jurisdiction against improper use.

3. **Authorization:**

The persons whose signatures appear below certify that they are authorized to enter this Agreement on behalf of the Party for whom they sign.

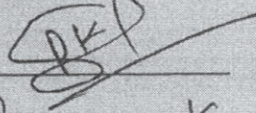
4. **Validity:**

This MoU will be valid for a period of five years from the date of signing and can be further renewed by both the parties as per mutually agreed terms and conditions. If the MoU is not extended after five years, then the ongoing activities will be completed and no further new activities will be initiated, till extension.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by their respective duly authorized representatives.

THIS AGREEMENT has been signed on the date first above written.

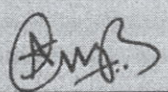
FOR AND ON BEHALF OF BVGLSL SIGNED BY

SIGNATURE: 

NAME: Dr Pawan Kumar Singh.

DESIGNATION: Vice President - R&D


WITNESS:

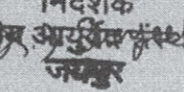
SIGNATURE: 

NAME: Dr. Pawan Kumar Godatwar

FOR AND ON BEHALF OF NIA

SIGNED BY

SIGNATURE: 

NAME: Prof.  Sharma

DESIGNATION: - Director

WITNESS :

SIGNATURE: Sarvesh

NAME: Dr. Sarvesh Kumar Singh.

