



B. K. L. Walawalkar Rural Medical College

Affiliated to Maharashtra University of Health Science, Maharashtra

NAAC Accredited with CGPA at 'B++' Grade

Website : www.bklwrmc.com | E-mail : info@bklwrmc.com | Phone : 9209339465

NAAC
AQAR 2023-2024

Criteria II
3.2.1

3.2.1 Details of facilities and Innovation made

Index

Sr. No.	Title of activity under Incubation centre	Page Number
1	Dr. Dorairaj Prabhakaran, Director, Center for Chronic Disease Control, Delhi Visit	1
2	Brief Scientific Advisory Committee	2-3
3	Students Interaction with Padmavibhushan Dr Anil Kakodkar	4-5
4	Ex-Professor in Lokmanya Tilak Municipal Medical College and Pediatric Gastroenterologist, Hepatologist Dr. Alka Jadhav visit	6
5	Founder of „Genetic Health Care Center“ Dr. Hema Purandare Visit	
6	Dr. Sunita Chandorkar, Professor And Dietician At Ms University, Baroda And Dr. Anjali Ganpule, Nutritionist From Ccdc, Delhi Visit and interaction	7
7	Dr. Rahul Bhambure, scientist from National Chemical Laboratory (NCL), Pune, visit and interaction with faculties	
8	well-known diabetes expert from CMC Vellore Dr. Nihal Thomas and Dr. Felix Jebasingh visit and their interaction with faculties ,Post graduate students and Filed visit in Community	8
9	Felicitation of Dr. Sunil Nadkarni, MS (Orth), FRCS, MCh for 3 patents	9
10	Indisk Regenerative therapy : Noval research Project	10
11	Genomic laboratory	11
12	A pilot study about efficacy of saline extract of Jackfruit	
13	"Basic techniques in Molecular Biology and animal tissue culture" hands on training work shop for students	12-24
14	Discussion on Phase I clinical trial for autologous chondrocyte cell therapy for back pain incubation center	25-28
15	Dr Shivram Murty's visit	29-32
16	SERO certificate	33-35
17	Patents	36-42
18	Novel soft Embalming of cadevar by Dr Prashant Moollya	43-44



B. K. L. Walawalkar Rural Medical College

Affiliated to Maharashtra University of Health Science, Maharashtra

NAAC Accredited with CGPA at 'B++' Grade

Website : www.bklwrmc.com | E-mail : info@bklwrmc.com | Phone : 9209339465

NAAC
AQAR 2023-2024

Criterion III
3.2.1

UPDATES ON INNOVATION ECOSYSTEM (INCUBATION CENTRE IN 2023-24)

DR. PRABHAKARAN DORAIRAJ'S VISIT TO B. K. L. WALAWALKAR RURAL MEDICAL COLLEGE & HOSPITAL



Dr. Dorairaj Prabhakaran, Director, Center for Chronic Disease Control, Delhi, on Monday, visited B. K. L. Walawalkar Hospital and Rural Medical College, Derwan on 7th and 8th August 2023. Dr. Prabhakaran is a world renowned cardiologist, epidemiologist, educationist and researcher. He did M.B.B.S. (Bangalore Medical College), M. D. (Internal Medicine) and D. M. (Cardiology) - All India Institute of Medical Sciences Delhi and M. S. C. (Health Research Methodology) is awarded the title of 'MC Master University', Canada. Dr. Prabhakaran has created low cost methods of heart disease treatment. He is working in various positions in various global organizations. Prabhakaran's research will have far-reaching benefits for health care. He has put a lot of emphasis on diabetes and prevention research and has made millions. Under his editorial leadership, the World Bank published the Cardiovascular Disease Control Project in book form. This book provides an estimate of the expected costs and effectiveness of currently available measures and thus guides policy makers around the world in prioritizing their investments. Dr. Prabhakaran came to Dervan and inspected the research center 'Dervan Cohort' established in the medical college. The nature of the research being conducted here is on the health of adolescent girls in Konkan and how to prevent or deal with diabetes or other diseases in the future. Dr. Prabhakaran provided invaluable guidance by reviewing this research, taking guidance from world-renowned scientists and experts from abroad, and discussing with our cohort physicians what further work could be done on it. Due to Dr. Prabhakaran's recommendation, the initiative can now benefit from the guidance of experienced scientists from the country and abroad and this research project will gain more momentum.





The 'Scientific Advisory Committee' was established in 2016. This committee was created with an idea of accelerating research ideology in rural villages. And also to scientifically solve the problems faced by the people, which will finally help them in leading a happy life. This meeting was conducted in the Dervan Campus, in the honorable presence of Shri. Dr. Anil Kakodar – Chairman (SAC). While expressing his thoughts, he said in the beginning that , "Whenever we come here for the committee meetings one of the characteristics of this organization is that all year around a comprehensive work involving everyone in the village is undertaken. And whatever this Committee directs or suggests, all those plans or those programs are carried out with very careful attention. It is done with such goals and objectives and is acted upon thoughtfully, so I like to come here and the inspiration behind all this is of-course Kaka Maharaj and therefore 'proper follow-up' is a strong characteristic of this committee and the college. "

Some of the professor from the medical college presented their thesis along with their ongoing research work to the committee members. The major research in it was on the subject of 'Dervan Cohort'. This cohort is on "Adolescence and Ongoing Diabetes". A presentation was given explaining in detail how diabetes, blood pressure, heart attack can be linked. This was done with proper statistics and examples. Fifteen hundred adolescent girls aged sixteen to nineteen (five hundred each from Chiplun, Khed and Sangameshwar talukas) were selected and were checked for the vitals. All the results/findings of the examination of these girls were found to be deficient in vitamin D, vitamin B12, calcium and blood levels of 'homocysteine' was found to be on the higher side. The 'homocysteine' is a factor which if found too high can further lead to a heart attack. At the same time, almost 39 percent of the girls showed signs of diabetes. After presenting such data, what kind of intervention or what kind of nutritious food and lifestyle can be given to these girls so that all these risks can be reduced was discussed during the meeting. Dr. Shri. Anil Kakodkar, Dr. Ramaswami and Dr. Jayant Kumar Bantia gave their valuable suggestions. He also said that perhaps we should think about whether it may be necessary for the government to make diabetes screening from childhood as a policy. We can make a strong case that the type of diabetes that is caused by malnutrition in Asia is of a different, atrophy nature, that the ICMR or other major government funding agencies and present it to them? It is now necessary to think whether we can create an awareness and screening for diabetes from childhood itself by collaborating with them.



Also there could be a connect or rather a chromosomal component to the link between childhood malnutrition and adult-onset diabetes. There was a discussion about participation in 'Human Genome' which is a project of 'ICMR' to verify if there are genomics and for that we should contact 'Genome India' project and get some feedback from them and involve us in it. Thus it is necessary to give them a proposal. Various collaborations have been done

for this project, such as ARMUDA, a branch of TIFR, its Dr. Ulhas and Dr. Mahendra Sonawane, Dr. Nihal Thomas, CMC Vellore, Dr. Yagnik, KEM Pune. We are collaborating with them. In this way and due to their guidance, we are going to understand the physiology of diabetes, its genomics, and diabetes in pregnancy and how it will gradually unfold. Dr. Suvarna Patil informed all the committee members that many types of studies are going to be conducted. All the present committee members expressed their opinion on the same. Jayantkumar Bantia also suggested that we have family health surveys. A large number of villages are adopted in Sevagram. Similarly, family surveys are also conducted in our schools. By adopting such families in villages, we can survey them for diabetes, hypertension, heart attack, weight, height and from that we can get a lot of information about the health of the people in these villages.

Even on snakebite, Walawalkar Rural Medical College helped Dr. Abasaheb Garware Engineering College Computer Science students. Dr. Suvarna Patil told the committee members that snake bite software has been developed under the guidance of Dr. Neha Deshpande. Dr. Arvind Yadav, Professor of Biochemistry, informed about the various thesis and the projects undertaken by medical students and post-graduates. While giving his opinion on it, Dr. Kakodkar suggested to make a list of the problems of the rural people and put it in front of these children so that if these children find the project and start researching it, all this research will collectively accelerate and have a direction and thus it will be beneficial to remove the problems and find out the reason behind it. Dr. T. Ramaswamy thanked the institute for creating such a culture and in just ten years this institute has been able to achieve this and the kind of research that is going on here and the different data collection that is happening here and the different challenges that are there to solve the problems of the people in the villages. As the research is going on here, it is necessary to build a bigger team and then find solutions to the problems of the people in these villages. He appreciated the organization for the work that has been done in the past ten years. Dr. Rita Mulherkar, Dr. Sunil Nadkarni discussed about the technical challenges faced by their project to produce Bovine Albumin from platelet lysate, with special emphasis on how we can overcome them and bring this to market. Dr. Nadkarni then discussed about his research on how we can dry clean an item or dry clean a wet cloth using hydrogen peroxide i.e. ozone or very little water in fact without water and how it will be used at that time if there is a possible drought. Dr. Neelam Shirsat while talking about her research elaborated on two topics, 'cohorts and cancer', and discussed the strategies and tools needed to advance this research, detailing genomics and single-nucleated polymorphisms and the disease that these changes cause. It was also discussed about how necessary it is to establish this 'Genomics Lab' and to start studying chromosomes further from it.

Dr. Jyoti Iyer in her presentation said that the 'Dervan Cohort' is a cohort of adolescent girls and it is going to record detailed information and analysis of the health of adolescent girls and their anthropometry for the next twenty years. For this, there is a need to find nutritional support as well as the science behind it and the genomics behind it to correct the defects they have. He gave the information about which organizations he collaborated with for this nutrition. Among them is 'Toddler Food', an American organization. Alumni of I.I.T. Dr. Shivram Murthy and Secretary of 'RGST' Dr. Narendra Shah and Dr. Alka Jadhav are going to help us and it will help the girls to prepare and consume these quick to use products and be useful for them to over-come malnutrition.



Similarly, we are also planning to create and train 'Bamboo Poly House' for growing vegetables, vegetables and grains at one's own doorstep and kitchen garden. And here we were also informed that two organizations Dapoli Agricultural University and Toddler Food Partner are going to help us for the training.

HEARTWARMING CHAT WITH A VISIONARY 'NUCLEAR TRAVELLER'



No one will easily realize the importance of the memorable event that took place during the time period from 4.30 pm to 5.15 pm on 07th October'2023. The whole area was lit up with a unique spirit for the seminar of the Scientific Advisory Committee. Mr. Jayantkumar Banthia (Former Principal Secretary, Government of Maharashtra), The entire staff of the hospital and the college worked as if engrossed by the presence of one and all superiors such as Dr. Sripad Banavali (Academic Director, Tata Memorial Hospital Group).

This is the person in whose hand all of these scientific advisory committee remains, the same person who held the dialogue with the students of Medical, Physiotherapy and Nursing colleges. All the regular readers of Dervan News paper must have noticed who it is; this person is Padma Vibhushan Shri.Dr.Anil Kakodkar.

The title of the present dialogue organized by the cultural and artistic forum of the college, Mrigandha, was: 'Smiling Buddha, Operation Shakti, What NEXT on the Path towards Aatmanirbhar Bharat?'

The discussion was held at the College Lecture hall, which elaborated on various topics including the life journey, the experiences, the world, the concept of a new India unfolded in a wide way. Hearing the geographical and political equations behind the 1974 and 1998 nuclear blasts at Pokhran. All the attendees were literally thrilled. This event was hosted by the medical college interns Akshaya Tandale, Atharva Deshpande and Avinash Mane.

Everyone experienced his erudition and intense brilliance while listening to his concept of City in a Village i.e. Sillage. The many aspects he raised while explaining what the contribution of the healthcare sector should be are worth introspecting. When Dr. Kakodkar was asked how did you manage to maintain your health till the age of 80 today despite the huge stress where the future of our country depends on your every decision? He answered very simply that if you have great love and loyalty towards your work, you should take care of your health for your favorite work. You have to work hard for this.

When Dr. Kakodkar was asked about the history of his relationship with Shree Joshi Charitable Trust and B. K.L. Rural Medical College and Hospital, he revealed something about himself, he said that since I first came here, whenever I came here, one thing I felt strongly was that there is something special about this place and that is why I want to keep coming here, to stay involved.

In the closing speech of thanks, the guide of 'Mridgandha' and Assistant Professor of the Department of Physiology, Dr. Advait Godse said that during the entire interaction Dr. Kakodkar's personality exuded a calm, unassuming air. Dr. Godse expressed his view point by sharing a few verses from "Bhagavad Gita" which in today's world can be seen in the form of Dr. Kakodkar. The ceremony was marked by the humble presence of Mr. Vikas Walawalkar, Dr. Sripad Banavali, Shri. Dr. Jayantkumar Banthia, Medical Director. Suvarna Patil, Dr. Netaji Patil and all the teaching staff. During the ceremony there was a special mention and praise for the sketch drawn by Uday Singh (student), who was guided by Dr. Avinash Waghmode and Dr. Laxman Phad. The success of this program also has an immense role and contribution done by Mr. Mukund Mungekar & Mr. Swapnil Shirsagar.



VISIT BY DR. ALKA JADHAV, EX-PROFESSOR IN LOKMANYA TILAK MUNICIPAL MEDICAL COLLEGE AND PEDIATRIC GASTROENTEROLOGIST, HEPATOLOGIST

Ex-Professor in Lokmánya Tilak Municipal Medical College and Pediatric Gastroenterologist, Hepatologist Dr. Alka Jadhav visited B. K. L. Walawalkar Medical College and Dervan Cohort for Adolescent Girls. She has successfully tried to improve the health of many malnourished children by using 'ready to use food products' for nutritious food. In this context, guidance was given on how to increase the nutrition of boys and girls in Konkan. Its benefit is going to be determined for pregnant mothers and daughters. Dr. Alka lauded Dervan Cohort's initiative for the health of teenage girls.



DR. HEMA PURANDARE'S, IS THE FOUNDER OF 'GENETIC HEALTH CARE CENTER' VISIT TO WALAWALKAR MEDICAL COLLEGE AND HOSPITAL

An expert in prenatal and prenatal genetics, Dr. Hema Purandare, visited Walawalkar Medical College and Hospital on 15th December'2023. Dr. Purandare is the founder of 'Genetic Health Care Center' After being an associate professor in Anatomy, and teaching Embryology and Genetics for many years at Grant Medical College-Mumbai, Dr. Purandhare attained special training in USA and UK in genetics for three years. By honoring the request of Dr. Rita Mulherkar, she visited all the laboratories at the medical college and expressed her desire to provide genetic training to the medical students.



DR. SUNITA CHANDORKAR, PROFESSOR AND DIETICIAN AT MS UNIVERSITY, BARODA AND DR. ANJALI GANPULE, NUTRITIONIST FROM CCDC, DELHI VISIT TO DERVAN COHORT

On 25th January'2023, Dr. Sunita Chandorkar - Professor and Dietician at MS University, Baroda along with Dr. Anjali Ganpule - Nutritionist from CCDC, Delhi, visited the Dervan Cohort project. This project was inaugurated by them. The Dervan Cohort is a cohort study of 1500 adolescent girls in Konkan and malnutrition and it is designed to study the effects. These girls were given proper guidance about diet, how to prepare nutritious food from available food grains, fruits, pulses and how to eliminate vitamin deficiency among them.



VISIT BY DR. RAHUL BHAMBURE, SCIENTIST FROM NATIONAL CHEMICAL LABORATORY (NCL), PUNE - NATIONAL CHEMICAL LABORATORY



Dr. Rahul Bhambure, scientist from National Chemical Laboratory (NCL), Pune, visited the institute on 11th May'2024. During his visit, faculty informed about many research projects which are on going in the medical college such as snake bite, scorpion stings, Jacqueline - which is made from jackfruit. Dr. Bhambure, expressed an intention to contribute to such a social project. The hospital also intends to enter into MoU with National Chemical Laboratory in future.

**DR. NIHAL THOMAS, DR. JEBASINGH (CMC VELLORE), DR. KOLTHUR AND DR. SONAWANE'S (TIFR)
VISIT TO DERVAN HOSPITAL**



On 03rd April 2024 well-known diabetes expert from CMC Vellore Dr. Nihal Thomas and Dr. Felix Jebasingh, Tata Institute of Fundamental Research Advanced Research Unit on Metabolism, Development Aging's (ARUMDA) Dr. Ulhas Kolthur - Professor Department of Biology and Dr. Mahendra Sonawane - Associate Professor Genetic analysis of epidermal Cell Adhesion in developing Zebrafish (T.I.F.R, Hyderabad) also visited the institute and inspected and discussed the project to be started in collaboration with ICMR. Dr. Thomas and Dr. Jebasingh dealt with diabetes; Gestational diabetes, foot examination of diabetic patients, treatment of thyroid gland defects. They also discussed and guided on various topics such as diabetes among people with thin limbs. Dr. Nihal Thomas, Dr. Felix Jebasingh, Dr. Ulhas Kolthur and Dr. Mahendra Sonawane visited the Anganwadi in Nandgaon and interacted with the children there and got information about the nutrition schemes. Dr. Nihal Thomas delivered a lecture on "Hypothyroidism - Twists and Turns in Presentation" to the MBBS students in his unique style and left the students mesmerized. The students also expressed their happiness at having the opportunity to listen to the well-known experts of India.



FELICITATION OF ORTHOPEDIC SURGEON DR. SUNIL NADKARNI BY DERWAN HOSPITAL FOR RECEIVING THREE MEDICAL PATENTS



Dr. Sunil Nadkarni, MS (Orth), FRCS, MCh has been working with B. K. L. Walawalkar Hospital since many years. . After serving the patient in England for fourteen years, he returned to the country and since then has been working as an orthopedic specialist in Pune. Spine disorders are his specialty area of study. Dr. Nadkarni, visits Derwan every weekend to treat the poor patients of Konkan. Due to his contemplative nature, he constantly researches in his field and researches new ideas in the treatment method to relieve the patients. "An Upright Postural Aid" to help patients with back pain and spine diseases to sit upright and keep the spine straight as well as "A Generalized Path Guidance Tool" to assist in Minimal Invasive Surgery of Lumbar Spine and Spinal Cell Lab He has acquired three patents for the new manufacturing technology A Composition and Method for in Vitro Proliferation of Disc Cells. In all this research work, he has got valuable support from well-known scientist Dr. Rita Mulherkar and his team. It also has an equal contribution of Department of Orthopedics from Walawalkar Medical College. This success of Dr. Nadkarni, was informally felicitated by Dr. Suvarna Patil - Medical Director (B. K. L. Walawalkar Hospital), Dr. Mansingh Ghadge - Dean of Medical College, and Dr. Netaji Patil - Consultant Radiologist, and expressed their gratitude for this austere.



Samarthakrupa Lifesciences Pvt Ltd and BKL Walawalkar Hospital



IndiSK Regenerative Therapy
A Phase I clinical trial to examine the safety and efficacy of autologous, cultured disc chondrocytes embedded in PRF transplanted in patients' disc to maintain its function.
Cell Therapy for back pain: autologous cultured disc chondrocytes, transplanted back into the patient to regain its function

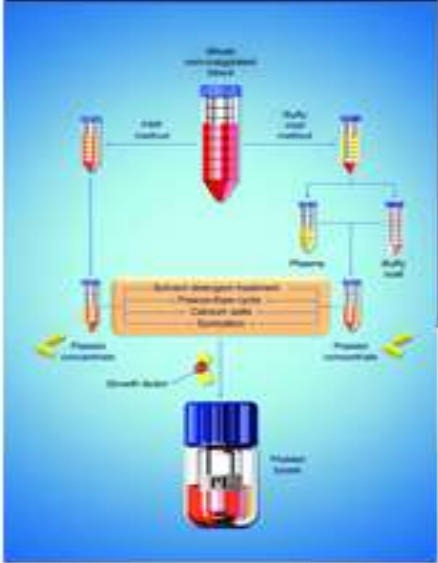


Principal Investigator: Sunil Nadkarni, MS, FRCS, MCh

Co- Principal Investigator: Rita Mulherkar, PhD



IndGro - Human Platelet Lysate:
A Non-Xenogenic Substitute for Foetal Bovine Serum for Animal Tissue Culture



- **Human Platelet Lysate**
- A Substitute for Foetal Bovine Serum for Animal Tissue Culture.
- SKLS has done POC work - successfully cultured IVD cells in media supplemented with hPL.
- Plan for commercialization of human platelet lysate as a substitute for widely used foetal bovine serum (FBS), for animal tissue culture.



Sunil Nadkarni, MS (Ortho), FRCS, M.Ch
 Rita Mulherkar, Ph.D.
Samarthakrupa Lifesciences Pvt Ltd.
BKL Walawalkar Hospital.

Genomic Laboratory

Ph.D. Ex. Scientific
Officer H
Tata Memorial Centre

1. Circulating cell-free RNA as biomarker for early detection and monitoring of breast cancer and ovarian cancer

2. Circulating microRNAs as biomarkers for early diagnosis and prevention of diabetes in rural India

3. Identification of Genetic and epigenetic factors leading to hyperhomocysteinemia in an Indian cohort of adolescent women that would aid in designing appropriate remedial measures



Jackfruit seeds

A pilot study to evaluate the efficacy of saline extract of jackfruit seeds (JaSE)

Potential applications-
Treatment of rhinitis and nasal congestion related ailments



Propolis and its applications

We are preparing hydroalcoholic extracts of propolis and estimation of polyphenol, flavonoid content.

Potential application : dental caries and to treat gingivitis and stomatitis.



shutterstock.com - 1896751195

B. K. L. WALAWALKAR RURAL MEDICAL COLLEGE



Kasarwadi, At-Post Sawarda, Taluka Chiplun,
Dist. Ratnagiri - 415606. Maharashtra State, INDIA
Tel. : +91 02355 264636 / 264637
Fax : +91 02355 264693 Email : info@bklwrmc.com
Website : www.walawalkarmedicalcollege.com

Outword No. BKLWRCM/IQAC/115/2023

Date: 21.12.2023

To,
All HOD's,
2nd and 3rd MBBS departments,
BKLWRCM.

This is to inform you that following 2nd MBBS students ^{from} 2022 admission batch have been nominated to participate as a volunteer in a Hands on Workshop on "Basic techniques in Molecular Biology and animal tissue culture" at B.K.L. Walawalkar Rural Medical College. This workshop will be conducted by Sun Pharma Sciences Foundation along with BKL Walawalkar Rural Medical College Sawarde Samarthakrupa Life sciences Private Limited, Mumbai.

The concerned teaching departments are requested **give attendance** to these students on the said participation dates. The list of students is attached herewith.

Dean

BKL Walawalkar Rural Medical College

Sawarde, Chiplun

DEAN

S.V.J.C.T.'S

B.K.L. Walawalkar Rural Medical College
At. Kasarwadi, Post. Sawarde
Tal. Chiplun, Dist. Ratnagiri

**2nd MBBS students form 2022 admission batch participating in Workshop on
“Basic techniques in Molecular Biology and animal tissue culture”**

21st to 27th December, 2023

Participation dates	Roll No	Student's Name
22nd and 23rd December, 2023 Timings – 9:30 AM to 6:00 PM & 27th December, 9:30 AM to 11:30 AM for Valedictory function	M22115	POKALE PARNIKA GOPAL
	M22037	DHUMAL PRATHAMESH PRAVIN
	M22041	GADE SUDARSHAN ASHOK
	M22042	GAIKWAD PRACHI RAJESH
	M22043	GAIKWAD SAMIKSHA MOHAN
	M22045	GAMBHIRE VAISHNAVI SHIVAJI
	M22047	GAVATE MADHAV SHRIHARI
	M22050	GHOLAP ABHISHEK ANIL
	M22054	ITKARE TANAY RAJENDRA
	M22056	JADHAV GAURI VIKRAM
	M22057	JAIN MAHI NITIN
	M22060	KADAM KRUSHNA VINODRAO
	M22062	KADAM SHREYA SHIVAJI
	M22068	KAMBLE SHRUSTI KISHOR
24th and 26th December, 2023 Timings – 9:30 AM to 6:00 PM (25th December is holiday) & 27th December, 9:30 AM to 11:30 AM for Valedictory function	M22069	KANTHALE KALYANI DILIP
	M22071	KELSHIKAR NAYAN SANDIP
	M22098	PARADKAR PRAJAKTA ANAND
	M22101	PATIL NANDINI DATTAJIRAO
	M22107	PATIL SRUSHTI SANTOSH
	M22114	PHULSE SHRAVANI AMBAR
	M22117	RATHOD SACHIN MARUTI
	M22119	SAGARE SHIVANI SHRIRANG
	M22123	SAWANT TANUSHREE SAMEER
	M22131	SHIRSODE PARTH PRASANNA
	M22136	THAKUR NANDINI BRIJRAJ
	M22147	WAGHMARE UDAYRAJ PANDURANG
	M22150	YELWANDE DIPAK BHAGWAT
M22044	GAIKWAD SRUSHTI NITIN	



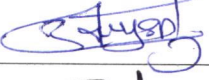

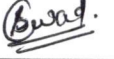
B.K.L Walawalkar Rural Medical College Sawarde

Topic : Basic Techniques in Molecular Biology workshop

Date: 27/12/23

Time :

Sr. No.	Roll No	Student Name	Sign
1	M22115	POKALE PARNIKA GOPAL	
2	M22037	DHUMAL PRATHAMESH PRAVIN	
3	M22041	GADE SUDARSHAN ASHOK	
4	M22042	GAIKWAD PRACHI RAJESH	
5	M22043	GAIKWAD SAMIKSHA MOHAN	
6	M22045	GAMBHIRE VAISHNAVI SHIVAJI	
7	M22047	GAVATE MADHAV SHRIHARI	
8	M22050	GHOLAP ABHISHEK ANIL	
9	M22054	ITKARE TANAY RAJENDRA	
10	M22056	JADHAV GAURI VIKRAM	
11	M22057	JAIN MAHI NITIN	
12	M22060	KADAM KRUSHNA VINODRAO	
13	M22062	KADAM SHREYA SHIVAJI	
14	M22068	KAMBLE SHRUSTI KISHOR	
15	M22107	PATI SRUSHTI SANTOSH	
16	M22069	KANTHALE KALYANI DILIP	
17	M22071	KELSHIKAR NAYAN SANDIP	
18	M22098	PARADKAR PRAJAKTA ANAND	
19	M22101	PATIL NANDINI DATTAJIRAO	
20	M22114	PHULSE SHRAVANI AMBAR	
21	M22117	RATHOD SACHIN MARUTI	
22	M22119	SAGARE SHIVANI SHRIRANG	
23	M22123	SAWANT TANUSHREE SAMEER	

Sr. No.	Roll No	Student Name	Sign
24	M22131	SHIRSONE PARTH PRASANNA	
25	M22136	THAKUR NANDINI BRIJRAJ	
26	M22147	WAGHMARE UDAYRAJ PANDURANG	
27	M22150	YELWANDE DIPAK BHAGWAT	
28	M22044	GAIKWAD SRUSHTI NITIN	

B.K.L Walawalkar Rural Medical College Sawarde

Topic : Basic Techniques in Molecular Biology workshop

Date: 22/12/2023

Time :

Sr. No.	Roll No	Student Name	Sign
1	M22115	POKALE PARNIKA GOPAL	A
2	M22037	DHUMAL PRATHAMESH PRAVIN	Prathmesh
3	M22041	GADE SUDARSHAN ASHOK	A
4	M22042	GAIKWAD PRACHI RAJESH	Prachi
5	M22043	GAIKWAD SAMIKSHA MOHAN	A
6	M22045	GAMBHIRE VAISHNAVI SHIVAJI	A
7	M22047	GAVATE MADHAV SHRIHARI	A
8	M22050	GHOLAP ABHISHEK ANIL	A
9	M22054	ITKARE TANAY RAJENDRA	ITR
10	M22056	JADHAV GAURI VIKRAM	A
11	M22057	JAIN MAHI NITIN	A
12	M22060	KADAM KRUSHNA VINODRAO	A
13	M22062	KADAM SHREYA SHIVAJI	A
14	M22068	KAMBLE SHRUSTI KISHOR	A
15	M22107	PATIL SRUSHTI SANTOSH	Patil

B.K.L Walawalkar Rural Medical College Sawarde

Topic : Basic Techniques in Molecular Biology workshop

Date: 23/12/2023

Time :

Sr. No.	Roll No	Student Name	Sign
1	M22115	POKALE PARNIKA GOPAL	M. Pokale
2	M22037	DHUMAL PRATHAMESH PRAVIN	Prathamesh Dhumal
3	M22041	GADE SUDARSHAN ASHOK	Sudarshan Gade
4	M22042	GAIKWAD PRACHI RAJESH	Prachi GaiKWAD
5	M22043	GAIKWAD SAMIKSHA MOHAN	Abhiksha GaiKWAD
6	M22045	GAMBHIRE VAISHNAVI SHIVAJI	Abhishnavi Gambhire
7	M22047	GAVATE MADHAV SHRIHARI	Madhav Gavate
8	M22050	GHOLAP ABHISHEK ANIL	Abhishek Gholap
9	M22054	ITKARE TANAY RAJENDRA	TRI
10	M22056	JADHAV GAURI VIKRAM	Abhigauri Jadhav
11	M22057	JAIN MAHI NITIN	Abhijain
12	M22060	KADAM KRUSHNA VINODRAO	Krushna Kadam
13	M22062	KADAM SHREYA SHIVAJI	Abhishreya Kadam
14	M22068	KAMBLE SHRUSTI KISHOR	Abhishruti Kamble
15	M22107	PATIL SRUSHTI SANTOSH	Srushti Patil

B.K.L Walawalkar Rural Medical College Sawarde

Topic : Basic Techniques in Molecular Biology Workshop

Date: 24/12/23

Time : 9 am To 6 pm

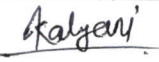
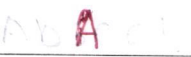

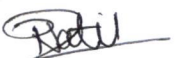
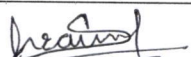
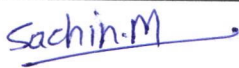
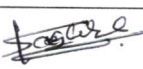
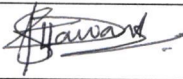


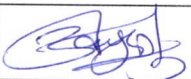
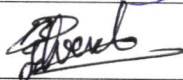

Sr. No.	Roll No	Student Name	Sign
1	M22069	KANTHALE KALYANI DILIP	<u>Kalyani'</u>
2	M22071	KELSHIKAR NAYAN SANDIP	Absent
3	M22098	PARADKAR PRAJAKTA ANAND	<u>Paradkar</u>
4	M22101	PATIL NANDINI DATTAJIRAO	<u>Patil</u>
5	M22114	PHULSE SHRAVANI AMBAR	<u>Phulse</u>
6	M22117	RATHOD SACHIN MARUTI	<u>sachin M</u>
7	M22119	SAGARE SHIVANI SHRIRANG	<u>Sagare</u>
8	M22123	SAWANT TANUSHREE SAMEER	<u>Sawant</u>
9	M22131	SHIRSONDE PARTH PRASANNA	<u>Parth</u>
10	M22136	THAKUR NANDINI BRIJRAJ	<u>Nandini</u>
11	M22147	WAGHMARE UDAYRAJ PANDURANG	<u>Udayraj</u>
12	M22150	YELWANDE DIPAK BHAGWAT	<u>Yelwande</u>
13	M22044	GAIKWAD SRUSHTI NITIN	<u>Gaikwad</u>

B.K.L Walawalkar Rural Medical College Sawarde

Topic : Basic Techniques in Molecular Biology Workshop

Date: 25/12/23

Time :

Sr. No.	Roll No	Student Name	Sign
1	M22069	KANTHALE KALYANI DILIP	
2	M22071	KELSHIKAR NAYAN SANDIP	
3	M22098	PARADKAR PRAJAKTA ANAND	
4	M22101	PATIL NANDINI DATTAJIRAO	
5	M22114	PHULSE SHRAVANI AMBAR	
6	M22117	RATHOD SACHIN MARUTI	
7	M22119	SAGARE SHIVANI SHRIRANG	
8	M22123	SAWANT TANUSHREE SAMEER	
9	M22131	SHIRSONDE PARTH PRASANNA	
10	M22136	THAKUR NANDINI BRIJRAJ	
11	M22147	WAGHMARE UDAYRAJ PANDURANG	
12	M22150	YELWANDE DIPAK BHAGWAT	
13	M22044	GAIKWAD SRUSHTI NITIN	

B.K.L Walawalkar Rural Medical College Sawarde

Topic : Basic Techniques in Molecular Biology Workshop

Date: 26/12/23

Time :

Sr. No.	Roll No	Student Name	Sign
1	M22069	KANTHALE KALYANI DILIP	Kalyani
2	M22071	KELSHIKAR NAYAN SANDIP	absent
3	M22098	PARADKAR PRAJAKTA ANAND	Paradkar
4	M22101	PATIL NANDINI DATTAJIRAO	Patil
5	M22114	PHULSE SHRAVANI AMBAR	Phulse
6	M22117	RATHOD SACHIN MARUTI	sachin.M
7	M22119	SAGARE SHIVANI SHRIRANG	Sagare
8	M22123	SAWANT TANUSHREE SAMEER	Sawant
9	M22131	SHIRSODE PARTH PRASANNA	Shirsode
10	M22136	THAKUR NANDINI BRIJRAJ	Thakur
11	M22147	WAGHMARE UDAYRAJ PANDURANG	Waghmare
12	M22150	YELWANDE DIPAK BHAGWAT	Yelwande
13	M22044	GAIKWAD SRUSHTI NITIN	Gwad.






B.K.L Walawalkar Rural Medical College Sawarde

Topic : Basic Techniques in Molecular Biology Workshop

Date: 27/12/23

Time :

Sr. No.	Roll No	Student Name	Sign
1	M22115	POKALE PARNIKA GOPAL	
2	M22037	DHUMAL PRATHAMESH PRAVIN	
3	M22041	GADE SUDARSHAN ASHOK	
4	M22042	GAIKWAD PRACHI RAJESH	
5	M22043	GAIKWAD SAMIKSHA MOHAN	
6	M22045	GAMBHIRE VAISHNAVI SHIVAJI	
7	M22047	GAVATE MADHAV SHRIHARI	
8	M22050	GHOLAP ABHISHEK ANIL	
9	M22054	ITKARE TANAY RAJENDRA	
10	M22056	JADHAV GAURI VIKRAM	
11	M22057	JAIN MAHI NITIN	
12	M22060	KADAM KRUSHNA VINODRAO	
13	M22062	KADAM SHREYA SHIVAJI	
14	M22068	KAMBLE SHRUSTI KISHOR	
15	M22107	PATI SRUSHTI SANTOSH	
16	M22069	KANTHALE KALYANI DILIP	
17	M22071	KELSHIKAR NAYAN SANDIP	
18	M22098	PARADKAR PRAJAKTA ANAND	
19	M22101	PATIL NANDINI DATTAJIRAO	
20	M22114	PHULSE SHRAVANI AMBAR	
21	M22117	RATHOD SACHIN MARUTI	
22	M22119	SAGARE SHIVANI SHRIRANG	
23	M22123	SAWANT TANUSHREE SAMEER	

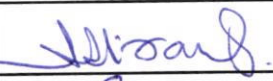

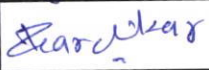



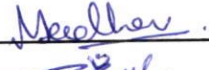

Sr. No.	Roll No	Student Name	Sign
24	M22131	SHIRSODE PARTH PRASANNA	
25	M22136	THAKUR NANDINI BRIJRAJ	
26	M22147	WAGHMARE UDAYRAJ PANDURANG	
27	M22150	YELWANDE DIPAK BHAGWAT	
28	M22044	GAIKWAD SRUSHTI NITIN	

B.K.L.Walawalkar Rural Medical College

(USA)

Date	10.01.2024	Topic :- Toddler food F- ^(USA) Dr Shivram Murthy
Time: 11:00 am	Venue:- Meeting Room, OPD Building	

Attendance

Sr. No.	Name	Designation	Signature
1	Shivram Murthy	Guest	
2	Dr. Suvarna Patil	MD	
3	Dr. Jyoti L Jyer	Sr. Scientist	Jyoti L. Jyer
4	Mrs Palavi Bhat	Biochemist	
5	Joglekar	Statistician	
6	Anand Joshi	Gastroenterologist	Joshi
7	Rupali Chavan	Psychologist	
8	Swati Sonawane	Psychologist	
9	DR. Asmita Jadhav	Project incharge	
10	Omkar Dervankar	Statistician	
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			

Agenda and Itinerary for Dr Shivram Murty's visit

1 message

Jyoti Iyer <jliyer@bklwrmc.com>

Mon, Jan 8, 2024 at 5:13 PM

To: Shivram Murty <shiv.murty@gmail.com>

Cc: director bklwrmc <director.bklwrmc@gmail.com>, Nilam Chavan <nilamchavan1519@gmail.com>, dervan cohort 2019 <dervan cohort.2019@gmail.com>

Dear Dr Murty

Welcome to Dervan. Looking forward to meeting you tomorrow.

Please find a brief agenda for the activities planned during your visit

Mr Malvankar will receive you at the airport tomorrow morning. I am available on call for any further assistance.

Your stay and food arrangements are made - at our guest house.

Date	Time	Activity	Participants from DERVAN
09-01-2024	6-7pm	Arrival at DERVAN. Brief meeting and introductions at the Guest house, Sharayu.	Dr Suvarna Patil, Dr Jyoti Iyer, Dr Anand Joshi
10-01-2024	9.00 - 10am	Visit to the medical college, sports academy, dream health park	Dr Jyoti Iyer
	10 - 11am	DERVAN cohort data update	Dr Suvarna Patil, Dr Jyoti Iyer, Mr Joglekar, DERVAN Cohort team
	11.30 - 1	Nutritional Intervention Project discussion	Dr Suvarna Patil, Dr Jyoti Iyer, Mr Joglekar, DERVAN Cohort team, Swati and Rupali
	1 - 2.30pm	Lunch and break	
	2.30 - 4.00pm	Visit to the Cohort Lab, hospital, school, skill development centre	Dr Suvarna, Dr Jyoti
	4.00 - 5.30pm	Summary of the visit. Next steps discussion. Wrap-up	Dr Suvarna Patil, Dr Jyoti Iyer, Mr Joglekar, DERVAN Cohort team
10-01-2024	8.30am	Visit to DERVAN Mutt and nearby village visit.	Dr Jyoti Iyer

Regards

Jyoti

**B.K.L.Walawalkar Rural Medical College & Hospital, Sawarde
Meeting**

Date - 13.01.2024	Venue - Meeting Room	
Time- 4.30pm Onwards		
Attendance		
Name	Designation	Signature
Dr. Mansingdeo N. Akhatge	Prof. Dept Surgery	
Dr. Arvind S. Yadav	prof. Biochemistry	
Dr. ANAND JOSHI	GASTROENTEROLOGY	Joshi
Dr. Anand Gajalke	Professor	Anand
Dr. Dr. Rahul Salgar	ASSO. Prof	Rahul
Dr. Dr Syob. L. Iyer	Sr. Scientist	Syob. L. Iyer
Dr. Sumita Junjarewad.	Blood Bank	Sumita
Dr. Leena Thakur.	Asst. Prof. Anaesthesia.	Leena
Dr. Prasanna Nakate	Professor	Prasanna
Dr. Shivaleela. Bhuswale	Associate Prof	Shivaleela
Dr. Onkar Sudame	Assistant Prof	Onkar
Dr. Sunil Nalhekar	"	Sunil
Dr. Swarna N. Patil	Med Div.	Swarna
Dr.		
Dr.		
Dr.		
Dr.		
Dr.		
Dr.		
Dr.		
Dr.		
Dr.		



B. K. L. WALAWALKAR RURAL MEDICAL COLLEGE



Kasarwadi, At-Post Sawarda, Taluka Chiplun,
Dist. Ratnagiri - 415606. Maharashtra State, INDIA
Tel. : +91 02355 264636 / 264637
Fax : +91 02355 264693 Email : info@bklwrmc.com
Website : www.walawalkarmedicalcollege.com

Outward No: BKLWPMC/11/2024

Date: 10.01.2024

To,
HOD,
B.K.L.WALAWALKAR RURAL MEDICAL COLLEGE

Subject- Discussion about Phase I Clinical Trial

Respected Sir/Madam,

BKL Walawalkar Rural Medical College, Briefing about

“ Phase I clinical trial for autologous chondrocyte cell therapy for back pain”

CDSO has approved this as a first trial clinical trial in India.

We request your departmental faculty to be present to discuss about 1st such Clinical trial in India

13th January 2024 at 4.30 PM at Meeting Room, OPD Building.

Faculty requested for the meeting are as follows-

Dr. Mansingrao N. Ghatage – Professor, General Surgery

Dr Arvind Yadav, Professor, Biochemistry

Dr.Ranjit Wagh (HOD & Professor, Pharmacology)


Dr.Vijay Dombale (HOD & Professor, Pathology)

Dr.Prasanna Nakate (HOD & Professor, Microbiology)

Dr. Leena Thakur (Assistant Professor, Anaesthesia)

Dr.Anand Gajkosh (Professor, Radio-Diagnosis)

Thanking You,

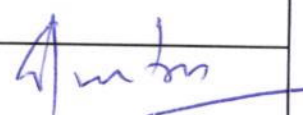

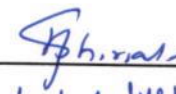
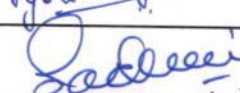



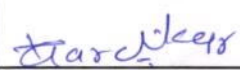


Dr.Suvarna Patil
Medical Director,
BKLWPMC

Director
B.K.L.Walawalkar Rural Medical College,
Sawarde, Kasarwadi, Pin - 415606

**B. K. L. Walawalkar Rural Medical College & Hospital,
Sawarde**

Date	08.08.2023	Topic - Discussion with Dr Prabhakaran, PHFI
Time: 11:15 am		Venue:- Meeting room, OPD building

Attendance

Sr. No.	Name	Designation	Signature
1	D. Prabhakaran.	Executive Director Centre for Chromo- some and Gene Disease Control, Distinguished Professor, PHFI	
2			
3			
4	DR S. N. Patil.	M.D. P.I.	
5	Dr. Rula Mulherkar		R.M.
6	Dr. Neelam Shirsar.	Scientist	
7	Dr. Jyoti Iyer	Sr. Scientist	Jyoti. Iyer
8	Dr. Sunil Nadkarni	Clinician.	
9	Charm Jugkar	Biostatistician	
10	Netaji Patil	Radiologist	
11	Rohit Bhat	Scientist	
12	Pallavi Bhat	Biochemist	
13	Omkar Dervankar	Statistician	
14			
15			
16			
17			
18			
19			
20			

Agenda and Itinerary for Dr Shivram Murty's visit

1 message

Jyoti Iyer <jliyer@bklwrmc.com>

Mon, Jan 8, 2024 at 5:13 PM

To: Shivram Murty <shiv.murty@gmail.com>

Cc: director bklwrmc <director.bklwrmc@gmail.com>, Nilam Chavan <nilamchavan1519@gmail.com>, dervancohort 2019 <dervancohort.2019@gmail.com>

Dear Dr Murty

Welcome to Dervan. Looking forward to meeting you tomorrow.

Please find a brief agenda for the activities planned during your visit

Mr Malvankar will receive you at the airport tomorrow morning. I am available on call for any further assistance.

Your stay and food arrangements are made - at our guest house.

Date	Time	Activity	Participants from DERVAN
09-01-2024	6-7pm	Arrival at DERVAN. Brief meeting and introductions at the Guest house, Sharayu.	Dr Suvarna Patil, Dr Jyoti Iyer, Dr Anand Joshi
10-01-2024	9.00 - 10am	Visit to the medical college, sports academy, dream health park	Dr Jyoti Iyer
	10 - 11am	DERVAN cohort data update	Dr Suvarna Patil, Dr Jyoti Iyer, Mr Joglekar, DERVAN Cohort team
	11.30 - 1	Nutritional Intervention Project discussion	Dr Suvarna Patil, Dr Jyoti Iyer, Mr Joglekar, DERVAN Cohort team, Swati and Rupali
	1 - 2.30pm	Lunch and break	
	2.30 - 4.00pm	Visit to the Cohort Lab, hospital, school, skill development centre	Dr Suvarna, Dr Jyoti
	4.00 - 5.30pm	Summary of the visit. Next steps discussion. Wrap-up	Dr Suvarna Patil, Dr Jyoti Iyer, Mr Joglekar, DERVAN Cohort team
10-01-2024	8.30am	Visit to DERVAN Mutt and nearby village visit.	Dr Jyoti Iyer

Regards

Jyoti

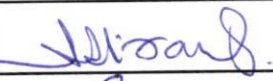
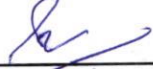
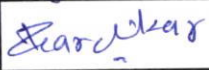


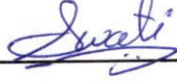
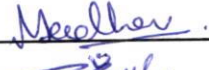

B.K.L. Walawalkar Rural Medical College

(USA)

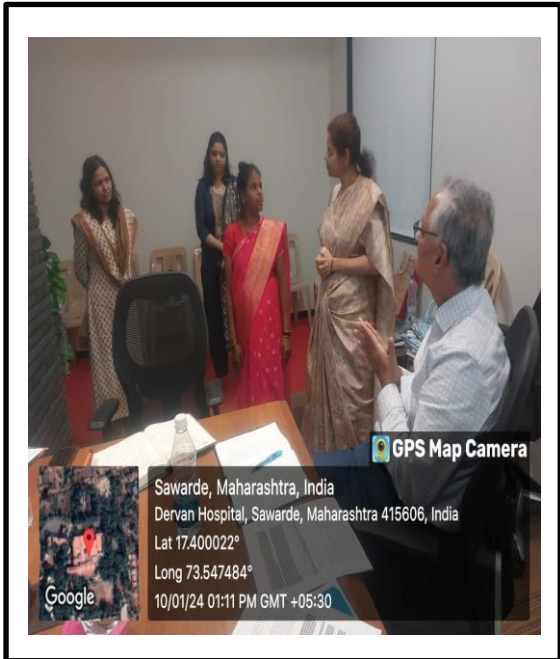
Date: 10.01.2024 Topic:- Toddler food F- ~~Dr~~ Shivram Murthy

Time: 11:00 am Venue:- Meeting Room, OPD Building

Attendance

Sr. No.	Name	Designation	Signature
1	Shivram Murthy	Guest	
2	Dr. Suvarna Patil	MD	
3	Dr. Jyoti L Jyer	Sr. Scientist	Jyoti L. Jyer
4	Mrs Palavi Bhat	Biochemist	
5	Joglekar	Statistician	
6	Anand Joshi	Gastroenterologist	Joshi
7	Rupali Chavan	Psychologist	
8	Swati Sonawane	Psychologist	
9	DR. Asmita Jadhav	Project incharge	
10	Omkar Dervankar	Statistician	
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			

PHOTOS



SERO Renewal Certificate



सूचना का
अधिकार
RIGHT TO
INFORMATION

दूरभाष/TEL : 26962819, 26567373
(EPABX) : 26565694, 26562133
: 26565687, 26562144
: 26562134, 26562122
फैक्स/FAX : 26960629, 26529745
Website : <http://www.dsir.gov.in>

(आईएसओ 9001:2008 प्रमाणित विभाग)
(AN ISO 9001:2008 CERTIFIED DEPARTMENT)



सत्यमेव जयते

भारत सरकार
विज्ञान और प्रौद्योगिकी मंत्रालय
वैज्ञानिक और औद्योगिक अनुसंधान विभाग
टेक्नोलॉजी भवन, नया महरौली मार्ग,
नई दिल्ली - 110016
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE AND TECHNOLOGY
Department of Scientific and Industrial Research
Technology Bhavan, New Mehrauli Road,
New Delhi - 110016



F.No. 14/752/2018-TU-V

Date: 26th July 2024

**The Managing Trustee
Shri Vithalrao Joshi Charities Trust's B.K.L. Walawalkar Hospital & Rural Medical
College,
A/P Kasarwadi, Sawarde,
Taluka – Chiplun,
District Ratnagiri – 415606, Maharashtra**

**Subject: Renewal of Recognition of Scientific and Industrial Research
Organisations (SIROs).**

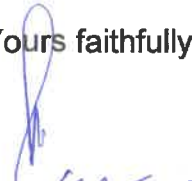
Dear Sir,

This has reference to your application for renewal of recognition of **Shri Vithalrao Joshi Charities Trust's B.K.L. Walawalkar Hospital & Rural Medical College, Chiplun, District Ratnagiri, Maharashtra** as a Scientific and Industrial Research Organisation (SIRO) by the Department of Scientific and Industrial Research under the Scheme on Recognition of Scientific and Industrial Research Organisations (SIROs), 1988.

2. This is to inform you that it has been decided to accord renewal of recognition to **Shri Vithalrao Joshi Charities Trust's B.K.L. Walawalkar Hospital & Rural Medical College, Chiplun, District Ratnagiri, Maharashtra** from **01.04.2024 to 31.03.2027**. The recognition is subject to terms and conditions mentioned overleaf.

3. Receipt of this letter may kindly be acknowledged.

Yours faithfully,


(Dr. P.K. Dutta)
Scientist - 'G'

TERMS AND CONDITIONS FOR RECOGNITION OF SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATIONS (SIROs)

1. The organizations should acknowledge receipt of the recognition letter by stating that they will abide by the terms and conditions of recognition.
2. The recognition will entitle the SIRO to receive such administrative support from the DSIR, Ministry of Science & Technology as may be required on issue to promote or encourage scientific research activities.
3. SIROs recognized by DSIR are also deemed to be registered. A separate certificate of registration** is issued along with the recognition letter. The recognition would be valid for the period specified in the recognition letter and application for renewal of recognition shall be submitted in the prescribed proforma at least 3 months before the expiry of the valid recognition. Failure to submit application in time may lead to automatic lapsing of the recognition & registration.
***However, the certificate of registration is not issued to SIROs engaged in activities falling within the definition of 'hospital' as per notification No. 51/96-Cus. Dt. 23.07.1996 issued by the Department of Revenue.*
4. The recognition of DSIR does not amount to approval u/s 35(1)(ii)/(iii) of Income Tax Act, 1961.
5. The registration will entitle the SIROs to avail of custom duty exemption on purchase of equipment, instruments, spares thereof, consumables, etc. used for research and development subject to relevant Government policies in force from time to time. Custom duty exemption has to be separately dealt with the customs authorities. The SIROs should abide by the terms & conditions of the customs notifications issued/amended from time to time.
6. Separate books of accounts shall be maintained by the SIRO for research & development activities and the R&D expenditure, both capital and recurring should be reflected the Annual Report and Statement of Accounts of the Organization in separate schedules.
7. Disposal/sale of equipment and products/prototypes/intermediates, if any, emanating from the R&D/pilot plant, should be intimated to DSIR immediately. The realization, if any, from above or any services rendered etc. shall be shown in the R&D accounts of the organization as income of the SIRO in the audited accounts as well as annual report and should be used or reinvested for research activities only. In case of disposal/sale of R&D equipment, clearance from custom authorities will also be required in view of the applicable notifications under which the equipment was imported/purchased in India.
8. Accelerated depreciation allowance as per Rule 5(2) of Income Tax Rules 1962 will be available on investments on plant & machinery by any industrial unit which has made these investments for the purpose of commercialization of technology/know-how acquired from a SIRO recognition by DSIR.
9. Brief summary of the achievements of the organization shall be submitted to the DSIR every year. This should include details related to papers published, patents obtained and process developed, new products introduced, awards & prizes received, copy of Annual Report and Statement of Accounts of the organization etc. List of equipment, instruments, parts and consumables imported/purchased using the duty exemption should also be submitted to DSIR along with the Annual Report.
10. Any violation of the terms & conditions mentioned-above and / or provisions of taxation in force will make the organization liable to de-recognition.
11. The organization will also conform to such other conditions for recognition stipulated in the Guidelines or as may be specifically provided in the recognition letter.

Patents

[Home \(http://ipindia.nic.in/index.htm\)](http://ipindia.nic.in/index.htm) [About Us \(http://ipindia.nic.in/about-us.htm\)](http://ipindia.nic.in/about-us.htm) [Who's Who \(http://ipindia.nic.in/whos-who-page.htm\)](http://ipindia.nic.in/whos-who-page.htm)

[Policy & Programs \(http://ipindia.nic.in/policy-pages.htm\)](http://ipindia.nic.in/policy-pages.htm) [Achievements \(http://ipindia.nic.in/achievements-page.htm\)](http://ipindia.nic.in/achievements-page.htm)

[RTI \(http://ipindia.nic.in/right-to-information.htm\)](http://ipindia.nic.in/right-to-information.htm) [Feedback \(https://ipindiaonline.gov.in/feedback\)](https://ipindiaonline.gov.in/feedback) [Sitemap \(http://ipindia.nic.in/itemap.htm\)](http://ipindia.nic.in/itemap.htm)

[Contact Us \(http://ipindia.nic.in/contact-us.htm\)](http://ipindia.nic.in/contact-us.htm) [Help Line \(http://ipindia.nic.in/helpline-page.htm\)](http://ipindia.nic.in/helpline-page.htm)

[Skip to Main Content](#)



(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in>)

Patent Search

Invention Title	A GENERALISED PATH GUIDANCE TOOL TO ASSIST IN MINIMUM INVASIVE SURGERY OF LUMBAR SPINE
Publication Number	15/2019
Publication Date	12/04/2019
Publication Type	INA
Application Number	201621042698
Application Filing Date	14/12/2016
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	BIO-MEDICAL ENGINEERING
Classification (IPC)	A61B 17/00

Inventor

Name	Address	Country
VIKAS CHOUGULE	303, PARIJAT, KUBERA SANKUL, S. NO. 224 / 226 HADAPSAR, PUNE 411028, MAHARASHTRA, INDIA	India
SUNIL NADKARNI	B. K. L. WALAWALKAR HOSPITAL, SHREEKSHETRA DERVAN, CHIPLUN, RATNAGIRI 415 606, MAHARASHTRA, INDIA	India
ARATI MULAY	PRODUCTION ENGINEERING DEPARTMENT, COLLEGE OF ENGINEERING, PUNE WELLESLEY RD., SHIVAJINAGAR, PUNE 411005, MAHARASHTRA, INDIA	India
BHARATKUMAR AHUJA	COLLEGE OF ENGINEERING, PUNE WELLESLEY RD., SHIVAJINAGAR, PUNE 411005, MAHARASHTRA, INDIA	India

Applicant

Name	Address	Country	Nat
COLLEGE OF ENGINEERING	WELLESLEY RD., SHIVAJINAGAR, PUNE 411005, MAHARASHTRA, INDIA	India	India

Abstract:

ABSTRACT A GENERALISED PATH GUIDANCE TOOL TO ASSIST IN MINIMUM INVASIVE SURGERY OF LUMBAR SPINE A generalised path guidance tool to assist in minim surgery of lumbar spine, said tool comprising: two vacuum cups (12, 14), spaced apart from each other, configured to secure said tool to body part; two retractor tube said spaced apart region, with a hemi-spherical locator, at its operative distal end, said locator configured to engage with a portion of said bone, said tube configured a plurality of guide tubes (18) to allow a surgical instrument (30) to pass through it; knob (16) provided on cross axis in order to set angle between said retractor tubes said vacuum cups (12, 14); and sliding mechanism (22), with a linear adjustment knob to provide linear adjustments along longitudinal and cross axes and an angular knob, configured to provide angular adjustment of retractor tube (24) in sagittal plane as well as provides easy access along longitudinal axis.

Complete Specification

DESC:FIELD OF THE INVENTION:

This invention relates to the field of medical engineering.

Particularly, this invention relates to generalised surgical navigation or guidance tool for lumbar spine surgeries by using Minimum Invasive Surgery techniques

Specifically, this invention relates to a system and method for development of a generalised path guidance tool to assist in minimum invasive surgery of lumbar spi

BACKGROUND OF THE INVENTION:

Minimally invasive spine surgery (MISS) was first performed in the 1980s, but has recently seen rapid advances. Figure 1 shows a human spine. Technological advan enabled spine surgeons to expand patient selection and treat an evolving array of spinal disorders, such as degenerative disc disease, herniated disc, fractures, tum infections, instability and deformity. MISS was developed to treat disorders of the spine with less disruption to the muscles as shown in fig. 1. This can result in quick recovery, decrease operative blood loss, and speed patient return to normal function. In some MISS approaches, also called "keyhole surgeries," surgeons use a tiny endoscope with a camera on the end, which is inserted through a small incision in the skin. The camera provides surgeons with an inside view, enabling surgical acc the affected area of the spine.

[View Application Status](#)

[Terms & conditions \(http://ipindia.gov.in/terms-conditions.htm\)](http://ipindia.gov.in/terms-conditions.htm) [Privacy Policy \(http://ipindia.gov.in/privacy-policy.htm\)](http://ipindia.gov.in/privacy-policy.htm)
[Copyright \(http://ipindia.gov.in/copyright.htm\)](http://ipindia.gov.in/copyright.htm) [Hyperlinking Policy \(http://ipindia.gov.in/hyperlinking-policy.htm\)](http://ipindia.gov.in/hyperlinking-policy.htm)
[Accessibility \(http://ipindia.gov.in/accessibility.htm\)](http://ipindia.gov.in/accessibility.htm) [Archive \(http://ipindia.gov.in/archive.htm\)](http://ipindia.gov.in/archive.htm) [Contact Us \(http://ipindia.gov.in/contact-us.htm\)](http://ipindia.gov.in/contact-us.htm)
[Help \(http://ipindia.gov.in/help.htm\)](http://ipindia.gov.in/help.htm)

Content Owned, updated and maintained by Intellectual Property India, All Rights Reserved.

Page last updated on: 26/06/2019



**INTELLECTUAL
PROPERTY INDIA**

एकस्व/PATENTS|अभिकल्प/DESIGNS|
व्यापार चिह्न/TRADE MARKS|भौगोलिक
उपदर्शन/GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

**भारत सरकार
GOVERNMENT OF INDIA**

एकस्व कार्यालय /THE PATENT OFFICE
बौद्धिक सम्पदा भवन / I.P.O. BUILDING
एंटीप हिल/Antop Hill,
एस.एम.रोड/ S.M.Road,
मुंबई/ Mumbai- 400037
दूरभाष /Tel. No.: (022)24159194, 24141026
फैक्स/ Fax: 022-24130387
ई मेल/ Email: mumbai-patent@nic.in
वेबसाइट /Website: <http://ipindia.nic.in>

सं. \ No. 201621042698

दिनांक \ Dated the 30/11/2023

सेवा में, \ To :

Address of Service:- CHIRAG TANNA, INK IDEE, B-72, 62, 73 PEREIRA NAGAR NO. 7, KHOPAT, THANE (W) 400 601, MAHARASHTRA, INDIA

Email Id:- chirag@inkidee.com

विषय :- पेटेंट आवेदन संख्या 201621042698 के संबंध में अधिनियम की धारा 43 के तहत पेटेंट अनुदान तथा पेटेंट रजिस्टर में प्रविष्टि की सूचना

Sub :- Intimation of the grant and recordal of patent under section 43 of the Act in respect of patent application no. 201621042698

महोदय/महोदया,

Sir/Madam,

आपको सूचित किया जाता है कि पेटेंट अधिनियम, 1970 की धारा 12 व 13 तथा उस आधार पर बने नियम के तहत उपर्युक्त पेटेंट आवेदन के परीक्षण [व ----- को हुई सुनवाई] के उपरांत एतद्वारा पेटेंट अनुदान किया जाता है तथा पेटेंट अनुदान की प्रविष्टि 30/11/2023 को पेटेंट रजिस्टर में कर दी गयी है।

This is to Inform you that following the examination of above mentioned patent application under section 12 and 13 of The Patents Act, 1970 and Rules made thereunder [and hearing held on -----] a patent is hereby granted and recorded in the Register of Patents on the 30/11/2023. The Patent Certificate is enclosed herewith.

पेटेंट संख्या \ Patent No	: 475812
आवेदक का नाम \ Name Of Applicant	: COLLEGE OF ENGINEERING
पेटेंट दिनांक \ Date of Patent	: 14/12/2016
पूर्विका तिथि \ Priority Date	: 14/12/2016
परीक्षण हेतु अनुरोध दाखिल करने की तिथि \ Filing date of Request for examination	: 14/05/2018
शीर्षक \ Title	: A GENERALISED PATH GUIDANCE TOOL TO ASSIST IN MINIMUM INVASIVE SURGERY OF LUMBAR SPINE
दावों की संख्या \ Number of claims	: 1-6
Controller' Name	: Talapally Sravanthi
Controller' Email	: sravanthi.t.ipo@gov.in
Controller' Location	: Chennai

उपर्युक्त पेटेंट के अनुदान का प्रकाशन अधिनियम की धारा 43 के तहत पेटेंट कार्यालय के आधिकारिक जर्नल में किया जाएगा।

The grant of above mentioned patent will be published in the Official Journal of the patent Office under section 43 of the Act.

पेटेंट अधिनियम 1970 यथा संशोधित पेटेंट (संशोधन) नियम, 2005/ पेटेंट नियम, 2003 यथा संशोधित पेटेंट (संशोधन) नियम, 2016 की धारा 142 की उप-धारा (4) के प्रावधानों के तहत उपरोक्त प्रविष्टि की तिथि से 3 माह के भीतर इस कार्यालय में नवीकरण शुल्क जमा किया जाना चाहिए।

The payment of renewal fee is required to be made at this office within three(3) months from the aforesaid date of recording according to the proviso in sub-section(4) of Section 142 of The Patents Act,1970, as amended by The Patents (Amendment) Act, 2005 / The Patents Rules, 2003 as amended by The Patents (Amendment) Rules, 2016.

Talapally Sravanthi

(नियंत्रक पेटेंट)

Controller of Patents

टिप्पणी / Note :

1. संशोधित नवीकरण शुल्क हेतु कृपया महानियंत्रक पेटेंट, अभिकल्प एवं व्यापार चिह्न की आधिकारिक वेबसाइट www.ipindia.gov.in पर उपलब्ध पेटेंट (संशोधन) नियम 2016 की प्रथम अनुसूची (शुल्क) देखें।

For revised renewal fees kindly refer to the First Schedule (fees) of The Patents (Amendment) Rules 2016 available on the official website of Controller General of Patents, Designs and Trade Marks www.ipindia.gov.in

2. कार्यालय द्वारा पेटेंट प्रमाणपत्र की कोई भी कागजी प्रति अलग से जारी नहीं की जाएगी।

No hard copy of Patent Certificate shall be issued separately by the office.



**INTELLECTUAL
PROPERTY INDIA**

एकस्व/PATENTS|अभिकल्प/DESIGNS|
व्यापार चिह्न/TRADE MARKS|भौगोलिक
उपदर्शन/GEOGRAPHICAL INDICATIONS



**भारत सरकार
GOVERNMENT OF INDIA**

एकस्व कार्यालय /THE PATENT OFFICE
बौद्धिक सम्पदा भवन / I.P.O. BUILDING
एंटीप हिल/Antop Hill,
एस.एम.रोड/ S.M.Road,
मुंबई/ Mumbai- 400037
दूरभाष /Tel. No.: (022)24159194, 24141026
फैक्स/ Fax: 022-24130387
ई मेल/ Email: mumbai-patent@nic.in
वेबसाइट /Website:<http://ipindia.nic.in>

सं. \ No. 201721031159

दिनांक \ Dated the 15/03/2024

सेवा में, \ To :

Address of Service:- Dr Sunil M. Nadkarni Ankur 12 Shanta Society 394/B Kusalkar Road Pune 411016
Email Id:- sunil.nadkarni@gmail.com, csbhat@gmail.com

विषय :- पेटेंट आवेदन संख्या 201721031159 के संबंध में अधिनियम की धारा 43 के तहत पेटेंट अनुदान तथा पेटेंट रजिस्टर में प्रविष्टि की सूचना
Sub :- Intimation of the grant and recordal of patent under section 43 of the Act in respect of patent application no. 201721031159

महोदय/महोदया,
Sir/Madam,

आपको सूचित किया जाता है कि पेटेंट अधिनियम, 1970 की धारा 12 व 13 तथा उस आधार पर बने नियम के तहत उपर्युक्त पेटेंट आवेदन के परीक्षण [व ----- को हुई सुनवाई] के उपरान्त एतद्वारा पेटेंट अनुदान किया जाता है। तथा पेटेंट अनुदान की प्रविष्टि 15/03/2024 को पेटेंट रजिस्टर में कर दी गयी है।

This is to Inform you that following the examination of above mentioned patent application under section 12 and 13 of The Patents Act, 1970 and Rules made thereunder [and hearing held on -----] a patent is hereby granted and recorded in the Register of Patents on the 15/03/2024. The Patent Certificate is enclosed herewith.

पेटेंट संख्या \ Patent No	:	527485
आवेदक का नाम \ Name Of Applicant	:	Dr Sunil M. Nadkarni
पेटेंट दिनांक \ Date of Patent	:	02/09/2017
पूर्विका तिथि \ Priority Date	:	02/09/2017
परीक्षण हेतु अनुरोध दाखिल करने की तिथि \ Filing date of Request for examination	:	03/10/2020
शीर्षक \ Title	:	AN UPRIGHT POSTURAL AID
दावों की संख्या \ Number of claims	:	3
Controller' Name	:	Kumar Ravi
Controller' Email	:	kravi.ipo@gov.in
Controller' Location	:	Chennai

उपर्युक्त पेटेंट के अनुदान का प्रकाशन अधिनियम की धारा 43 के तहत पेटेंट कार्यालय के आधिकारिक जर्नल में किया जाएगा।

The grant of above mentioned patent will be published in the Official Journal of the patent Office under section 43 of the Act.

पेटेंट अधिनियम 1970 यथा संशोधित पेटेंट (संशोधन) नियम, 2005/ पेटेंट नियम, 2003 यथा संशोधित पेटेंट (संशोधन) नियम, 2016 की धारा 142 की उप-धारा (4) के प्रावधानों के तहत उपरोक्त प्रविष्टि की तिथि से 3 माह के भीतर इस कार्यालय में नवीकरण शुल्क जमा किया जाना चाहिए।

The payment of renewal fee is required to be made at this office within three(3) months from the aforesaid date of recording according to the proviso in sub-section(4) of Section 142 of The Patents Act,1970, as amended by The Patents (Amendment) Act, 2005 / The Patents Rules, 2003 as amended by The Patents (Amendment) Rules, 2016.

Kumar Ravi

(नियंत्रक पेटेंट)

Controller of Patents

टिप्पणी / Note :

1. संशोधित नवीकरण शुल्क हेतु कृपया महानियंत्रक पेटेंट, अभिकल्प एवं व्यापार चिह्न की आधिकारिक वेबसाइट www.ipindia.gov.in पर उपलब्ध पेटेंट (संशोधन) नियम 2016 की प्रथम अनुसूची (शुल्क) देखें।

For revised renewal fees kindly refer to the First Schedule (fees) of The Patents (Amendment) Rules 2016 available on the official website of Controller General of Patents, Designs and Trade Marks www.ipindia.gov.in

2. कार्यालय द्वारा पेटेंट प्रमाणपत्र की कोई भी कागजी प्रति अलग से जारी नहीं की जाएगी।

No hard copy of Patent Certificate shall be issued separately by the office.

Figure1: Injection site of Embalming

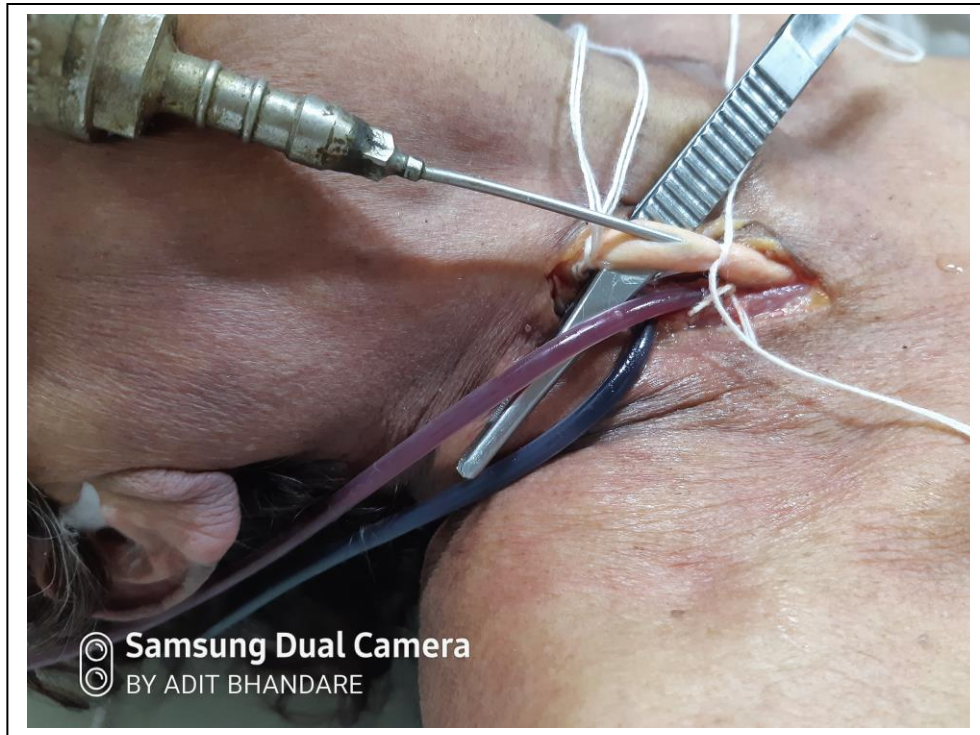


Figure 2: Cadaver texture before and after embalming procedure



Figure 3: Cadaveric Workshop: Needle passage for examining tissue consistency



Figure 4: Cadaveric Endoscopic spine surgery workshop

