



# RESEARCH NEWSLETTER

10th ISSUE

RESEARCH CELL, 2ND FLOOR,  
DEPARTMENT OF PHARMACY,  
SUMANDEEP VIDYAPEETH

Dec, 2018  
to Feb,  
2019

## What your Research should be ?

- What topic (idea) of study are you interested in?
- What has already been done in this research area? (literature)
- What major outcomes (dependent variables) are you interested in?
- What intervention (independent variable) are you interested in?
- Are you looking for differences or relationship (associations)?
- To what group (population) do you wish to apply your results?
- What is your specific research question?
- What answer do you expect to find to your question? (Research hypothesis)
- Why is this question important today ? (Relevance)

Dear all faculty members and researchers,

It is our pleasure to release the 10<sup>th</sup> issue of Research Newsletter. The theme of the present issue is “**Research Grants and Funding Opportunities**”.

In this issue we address the key information of availing financial assistance from various research funding available in India which can be explored by our researchers & faculty to achieve excellence. Apart from that, this newsletter covers other information related to research and achievements of our faculty members.

Research cell aims to promote research culture in all the constituent institutes of Sumandeep Vidyapeeth by providing assistance to all the researchers.



We believe that the students, faculty and clinicians should step forward for designing and submission of research proposals based on hypothesis and produce some innovations leading to patent filing.

Research Cell expects that this issue of newsletter will update our faculty and researchers.

Suggestions are always welcome to make this communication more meaningful.

Dr. A.K Seth  
Director Research



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*“Research is to see what everybody else has seen, and to think what nobody else has thought”*

*Albert Szent-Gyorgyi*

## INTRODUCTION

**Research funding** is a term generally covering any funding for scientific research, in the areas of both "hard" science and technology and social science. The term often connotes funding obtained through a competitive process, in which potential research projects are evaluated and only the most promising receive funding. Such processes, which are run by government, corporations or foundations, allocate scarce funds.



# Research Funding Opportunities

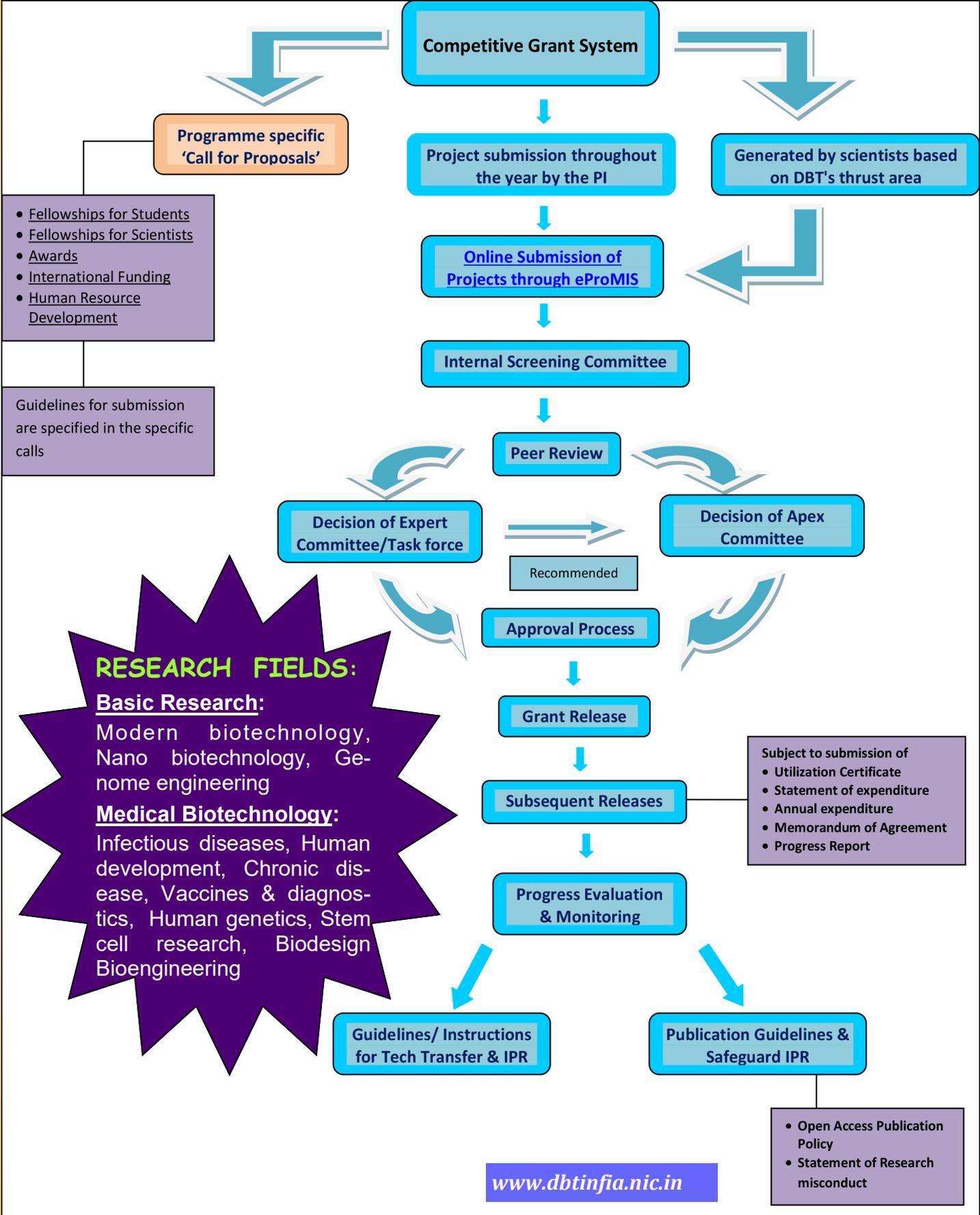


FUNDING AGENCIES	LINKS
Department of Biotechnology (DBT)	<a href="http://www.dbtindia.nic.in/">http://www.dbtindia.nic.in/</a> (homepage) <a href="http://www.dbtindia.nic.in/funding-mechanism/call/">http://www.dbtindia.nic.in/funding-mechanism/call/</a> (Call for proposals) <a href="http://www.dbtindia.nic.in/program-medical-biotechnology/">http://www.dbtindia.nic.in/program-medical-biotechnology/</a> (Clinical and community health related fields) <a href="http://www.dbtepromis.nic.in/Login.aspx">http://www.dbtepromis.nic.in/Login.aspx</a> (Submission guidelines- eProMIS)
Department of Science and Technology (DST)	<a href="http://www.dst.gov.in/">http://www.dst.gov.in/</a> (homepage) <a href="http://www.dst.gov.in/call-for-proposals">http://www.dst.gov.in/call-for-proposals</a> (call for proposals) <a href="http://www.dst.gov.in/announcement/applications-invited-throughout-year">http://www.dst.gov.in/announcement/applications-invited-throughout-year</a> (schemes open throughout year)
Indian Council of Medical Research (ICMR)	<a href="https://www.icmr.nic.in/">https://www.icmr.nic.in/</a>
Council of Scientific and Industrial Research (CSIR)	<a href="http://www.csir.res.in/">http://www.csir.res.in/</a>
Gujarat Council On Science and Technology (GUJCOST)	<a href="https://gujcost.gujarat.gov.in/">https://gujcost.gujarat.gov.in/</a> <a href="https://gujcost.gujarat.gov.in/centre-excellence.htm">https://gujcost.gujarat.gov.in/centre-excellence.htm</a>
Public Health Foundation of India (PHFI)	<a href="https://phfi.org/phri-research-grant-2018-19/">https://phfi.org/phri-research-grant-2018-19/</a>
Ministry of Ayurveda, Yoga & Naturopathy, Unani, Siddha and Homeopathy (AYUSH)	<a href="http://ayush.gov.in/schemes/extra-mural-research">http://ayush.gov.in/schemes/extra-mural-research</a> <a href="http://ayush.gov.in/schemes/financial-sanctions">http://ayush.gov.in/schemes/financial-sanctions</a>
Ministry of Human Resource Development (MHRD)	<a href="https://mhrd.gov.in/">https://mhrd.gov.in/</a> <a href="http://www.imprint-2.in">www.imprint-2.in</a>



Sr. No	Call for Proposal	Link (Ctrl+Click the link)	Deadline
1	Technology Interventions for Disabled & Elderly (TIDE) program	<a href="http://www.dst.gov.in/sites/default/files/tie_proposal_2012.pdf">http://www.dst.gov.in/sites/default/files/tie_proposal_2012.pdf</a>	No deadline- Can apply throughout the year
2	Call for applications for ASEAN-India Research Training Fellowships	<a href="https://aistic.gov.in/ASEAN/aistdfellowship">https://aistic.gov.in/ASEAN/aistdfellowship</a>	No deadline- Can apply throughout the year
3	India-EU Research and Innovation Action Towards A Next Generation Influenza Vaccine to Protect Citizens Worldwide	<a href="http://www.dbtindia.nic.in/india-eu-research-and-innovation-action/">http://www.dbtindia.nic.in/india-eu-research-and-innovation-action/</a>	16 <sup>th</sup> April, 2019
4	Research Methodology Workshop, ICMR	<a href="https://icmr.nic.in/sites/default/files/upload_documents/Call_for_Proposal_for_Research_Methodology.pdf">https://icmr.nic.in/sites/default/files/upload_documents/Call_for_Proposal_for_Research_Methodology.pdf</a>	31 <sup>st</sup> March, 2019
5	Scheme for Young Scientist and Technologists (SYST), DST	<a href="http://www.dst.gov.in/sites/default/files/SYST_2019_4-01.pdf">http://www.dst.gov.in/sites/default/files/SYST_2019_4-01.pdf</a>	20 <sup>th</sup> April, 2019
6	ICMR/FIND Call for Partners on "Diagnostic tools to improve targeted antibiotic treatment of undifferentiated acute febrile illnesses in children and adolescents presenting in outpatient clinics in India"	<a href="https://www.icmr.nic.in/what-s-new">https://www.icmr.nic.in/what-s-new</a>	29 <sup>th</sup> March, 2019

# DBT Funding Process



How to  
**write**  
a good research  
proposal



**A high impact research proposal should have following characteristics:**

- Should aim to advance in the field of science/, and it should be able to address the lacunae in the present available knowledge

- Have methods that are accurate and suitable (With References)



- Researchers involved should be well trained and had expertise in the field

- The aims of the proposal should be focused and measurable



- Should have an adequate representation of the sample so that the results can be generalized



- The proposal should be such that it takes into account the expected problems and at the same time propose alternatives for those problems

- It should follow strict ethical standards

**ETHICAL  
STANDARDS**

## Think Like a Reviewer

- The reviewers want to know the main ideas at the beginning of each section. The first paragraph should serve as the “**Abstract**” for the section.
- Similarly, the last paragraph of each section should review pertinent information and restate the main ideas.
- Proposals may be read by informed persons and researchers from other disciplines rather than subject specialists. Most agencies like to invest in a researcher of good track record, relevant technical expertise and focused approach.
- Write a concise, focused proposal with adequate justification, achievable goals and sound work plan and justified worked out budget.

## Concept Note

- A concept note is a short version of the proposal. The purpose of a concept paper is to shortlist proposals that have potential.
- It has the same structure as a full proposal, however, it has fewer details and takes far less time to prepare.
- Differences between a concept and full proposals are that annexes minimized, summary budget is adequate, beneficiaries, impact, activities background section are all summarized.

### *Suggested format for a concept paper*

- Introduction
- Purpose
- Project description
- Goals and objectives/research questions
- Methodology and timelines
- Benefits/anticipated outcomes
- Support needed and costs (if requested)
- Contact information.

## 140 million Indians can now apply for Global Research programmes' scholarships and fellowships

To ease the relative journey of a research aspirant towards their career objectives, many fellowships and scholarships are provided to Indian students by both domestic and international organizations.

<https://www.indiatoday.in/education-today/scholarships/story/-140-million-indians-can-now-apply-for-global-research-programmes-scholarships-and-fellowships-1458620-2019-02-18>

RESEARCH BLOGS

## India sets on biotech research projects with Finland

07 February 2019 | News

The Union Cabinet chaired by Prime Minister Narendra Modi has approved the MoU between India and Finland for collaborative mutual interest in the field of Biotechnology, for funding and implementing ambitious industry-led innovative and transnational projects of broad scope of research development and innovation.

The MoU will support creation of long-term Research, Development & Innovation collaboration mechanism and to establish and cooperative network between Indian and Finnish organizations. By funding need-oriented, ambitious joint projects of high standards, the two countries aim to help reach world-class innovations beneficial to both countries. It will also facilitate knowledge generation among scientists, researchers and industry in the two countries.

Identifying innovation as the cornerstone of the collaboration, both DBT and Business Finland have agreed to cooperate with Biotechnology Industry Research Assistance Council (BIRAC), the Public Sector Enterprise of the Department of Biotechnology (DBT), Government of India for funding and implementing ambitious industry-led innovative and transnational projects.

Based on their mutual interest following research areas have been identified-

<https://www.biospectrumindia.com/news/72/12750/india-sets-on-biotech-research-projects-with-finland.html>

<https://www.reuters.com/article/us-science-synthetic-life/us-scientists-take-step-toward-creating-artificial-life-idUSKBN1DT2ZB>

## U.S. scientists take step toward creating artificial life

Julie Steenhuisen

3 MIN READ



CHICAGO (Reuters) - In a major step toward creating artificial life, U.S. researchers have developed a living organism that incorporates both natural and artificial DNA and is capable of creating entirely new, synthetic proteins.



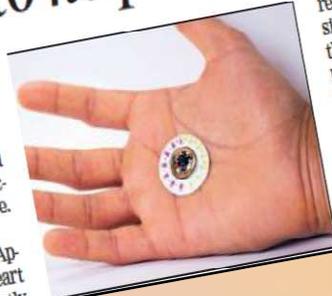


# WHAT'S NEW?

## This wearable device will analyse your sweat to help track your health

Apoorva Mandavilli

Someday soon, perhaps within a year, you'll be able to slap a soft, stretchy patch on to your arm that tells you you're dehydrated. Or that your electrolytes are dangerously out of balance. Even that you have diabetes. Fitness trackers such as Fitbit and Apple Watch already track step counts, heart rate and sleep rhythms. But they mostly



rely on colorimetrics, in which the intensity of the colour in the readout matches the concentration of the chemical being monitored. The new device delivers all that in a battery-free and wireless form. The new device has minuscule holes in its base into which sweat naturally flows. A complex network of valves and micro-channels, each roughly the width of a man hair, route the sweat into tiny reservoirs. Each reservoir contains a sensor

Times of India, 22nd Jan, 2019

## Virtual autopsy: No cuts to body, no hurt feelings

AIIMS, ICMR Experimenting With Tech

Durgesh Nandan Jha @timesgroup.com

New Delhi: For a family that has lost someone to an unnatural death — be it suicide or accident — the grief is compounded when they have to witness the deceased's dissected and suited body after the postmortem. Autopsy, which is essential procedure to examine the external and internal organs of

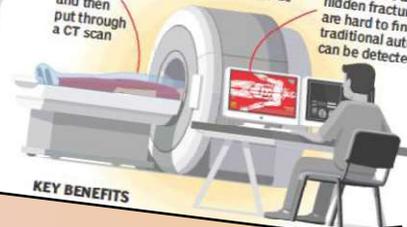
### WHAT IS A VIRTUAL AUTOPSY?

> An emerging science where doctors attempt to assess the cause of death using digital CT scan or MRI instead of cutting the body open

> Countries like Switzerland, USA and Australia are already using imaging techniques to conduct autopsy.

### HOW IT IS DONE

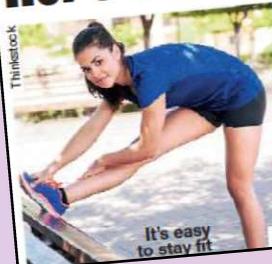
- 1 The body is placed in a sealed bag and then put through a CT scan
- 2 It finishes in seconds and acquires up to 25,000 images of body's inside
- 3 Internal bleeding, bullet paths and hidden fractures that are hard to find in traditional autopsy can be detected



KEY BENEFITS

Times of India, 21st Jan, 2019

## Here comes 'Stair Snacking' to improve heart health



It's easy to stay fit

Researchers have shown that a few minutes of stair climbing — it's called the 'stair snacking' approach — at short intervals, can improve cardiovascular health

quiring a total time commitment of 10 minutes or so. For this study, researchers set out to determine if SIT exercise snacks, or vigorous bouts of stairclimbing performed as single sprints spread throughout the day, would be sufficient enough to improve cardiorespiratory fitness (CRF). For the study, one group of sedentary young adults vigorously

climbed a three-flight stairwell, three times per day. They repeated the protocol three times each week over the course of six weeks.

The researchers compared the change in their fitness to a control group which did not exercise.

The findings, showed that although sprint interval training works but the stair snacking approach was also effective.

— IANS

Times of India, 24th Jan, 2019

# Clinical Oriented Research Seminar (1<sup>st</sup> Feb. 2019)

Research Cell had invited Dr. Glenn Joseph Mendoza (MD, MPH, PHRI Chief Medical Director), Associate Professor of Pediatrics and practicing Neonatologist in New York state, an international expert of 'Pranic Healing', for an interactive session with clinicians (specially from departments of Gynecology, Surgery, Medicine, Pediatric, Urology, Orthopedics and Community Medicine), Para clinicians (physiology), physiotherapists and nursing faculty of our University to understand the novel concepts of healing as an alternative therapy and, to initiate clinical oriented research projects in collaboration.

Unconventional but unique aspect was introduced by experts and Research Cell planned to organize practical session to understand clinical insights in details.



## RESEARCH UPDATES (Upto Feb. 2019)

Ongoing SV Funded Research Projects			Research Incentives (From Aug, 18)	
Institute	Projects	Total Amount (Lakhs)	Claims	Amount (INR)
SBKSMIRC	9	74,54,850	10	57000/-
Pharmacy	9	16,479,000	4	44000/-
KMSDCH	5	7,81,000	12	83000/-
Nursing	8	696000	-	-
MBA	2	100600	-	-
Physiotherapy	1	455000	2	10000/-

# Ongoing Clinical Trials

S. No	Title	Company	PI & Dept.
1	A Multi-Centre, Randomized, Double Blind, Parallel-Group, Comparative Clinical Trial to evaluate the Safety and Clinical Equivalence of Generic Clotrimazole Troche/Lozenges USP, 10mg (Unique Pharmaceutical Laboratories, India) to Clotrimazole Troche/Lozenges ® 10mg (Roxane Laboratories Inc., USA) in subjects with Oropharyngeal Candidiasis <b>(TPC-CLT-002)</b>	ThinQ Pharma	Dr Rashmi Mahajan, Dept. of Skin & VD
2	Phase III Safety and Immunogenicity of an Investigational versus Existing Formulation of the Licensed Pentavalent Vaccine (DTwP-HepB-Hib) Shan 5® when administered as Three Dose Primary Series at 6-8, 10-12 and 14-16 Weeks of Age in Healthy Indian Infants and Immunogenicity of the Investigational Shan 5® Formulation when administered as a Single Booster Dose at 12-24 Months of Age	Shantha Biotech	Dr Prasad Muley, Dept. of Pediatric
3	A Phase III, multicentre, randomized, observer blind, parallel group, three arms, controlled clinical trial to evaluate the efficacy and safety of topically applied Calcipotriol/AKVANO 50 µg/g cutaneous solution against Calcipotriol Ointment 50 micrograms/g, Sandoz and placebo in patients with mild to moderate plaque psoriasis	Cadila Pharmaceuticals	Dr Kishan Ninama Dept. of Skin & VD
4	A Randomised, Double-blind, Multicentre, Parallel-group, Active & Placebo Controlled, Three Arm Clinical Study to Compare the Efficacy and Safety of Clindamycin Phosphate 10 mg/g + Benzoyl Peroxide 50 mg/g Gel (Morningside Healthcare Ltd, UK) versus DUAC® Once Daily 10 mg/g + 50 mg/g Gel (GlaxoSmithKline UK Limited) in Subjects with Acne Vulgaris	Cliantha Research Ltd	Dr Kishan Ninama Dept. of Skin & VD
5	A Phase IV, Prospective, Open Label, Non-Comparative, Multicenter Study with 24 weeks of Treatment Period to Assess Safety, Tolerability and Efficacy of Pirfenidone 200 mg Oral tablets in patients with Idiopathic Pulmonary Fibrosis (IPF)	Cipla Ltd	Dr Arti Shah Dept. of Respiratory Medicine
6	A Phase 3, Multi-center, Randomized, Double-Masked Study to Evaluate the Clinical Efficacy and Safety of SHP640 (PVP-Iodine 0.6% and Dexamethasone 0.1%) Ophthalmic Suspension Compared to PVP-Iodine and Placebo in the Treatment of Adenoviral Conjunctivitis <b>(SHP640_301)</b>	IQVIA	Dr Raghunandan Kothari Dept. of Ophthalmology
7	Randomized, Double blind, Two Arm, Comparative Controlled, Prospective Clinical Trial of <i>Mycobacterium w</i> in Combination with Standard Therapy versus Standard Therapy Alone in Sepsis due to Gram Negative Infection <b>(PGI_0151)</b>	Cadila Pharmaceuticals	Dr Chaitri Shah, ICU

# ACHIEVEMENTS OF OUR RESEARCHERS

S. No.	Name	Title of Award	
1	Dr. Ghanshyam parmar, Associate Professor, Department of Pharmacy	1st Prize, <b>Oral Presentation</b> at International conference on herbal medicines: Research and commerce Global perspectives Ahmedabad Management Association, Ahmedabad	
2	Dr. Kushal Gohel, Assistant Professor, Department of Pharmacy	1st Prize, <b>Poster Presentation</b> at International conference on Pharmacy practice at K B Institute of Pharmaceutical Education and research, Gandhinagar, Gujarat	
3	Mr. Dhaval B. Joshi, Assistant Professor, Department of Pharmacy	1st Prize, <b>Poster Presentation</b> at 4 <sup>th</sup> International conference on Clinical Pharmacy, Manipal	
4	Dr. Hemraj Singh Rajput, Assistant Professor, Department of Pharmacy	3rd Prize, <b>Poster Presentation</b> at 6 <sup>th</sup> National Conference 'ABMH Pharmacon-VI, 2018 at Aditya Birla Memorial Hospital, Pune (ABMH)	
5	Dr. Manish Shah, Assistant Professor, SBKSMIRC	1st place for <b>Paper Presentation</b> at Velammal Innovations Summit Awards, 2018 Madurai	
6	Dr. Sudhirkumar Rawat, Assistant Professor, SBKSMIRC	<b>Fellowship</b> Arthroplasty and Arthroscopy, Sancheti Hospital for Specialised Surgery, Pune	
7	Dr. Aditya Agrawal, Assistant Professor, SBKSMIRC	<b>Fellowship</b> in Sport Medicine at Deenanath Mangeshkar Hospital, Pune	
8	Dr. Pinkal Shah, Professor, Department of Management	<b>Best Research Paper</b>	8 <sup>th</sup> International Conference on 'Innovative Business Practices for creating value in Global era', Acropolis Faculty of Management & Research
		<b>Best Paper Award</b>	10 <sup>th</sup> International Conference on 'Digital strategies for organizational success', Prestige Institute of Management, Gwalior

Sr. No.	Achiever's Name	Title of Award	
9	Mr. Rahul Sharma, Assistant Professor, Dept. of Management	<b>Best Research Paper</b> at 8 <sup>th</sup> International Conference on 'Innovative Business Practices for creating value in Global era', Acropolis Faculty of Management & Research,	
10	Dr. Romil Shah, Reader, KMSDCH	Third prize in <b>Scientific Poster Presentation</b> , at 53 <sup>rd</sup> Indian Orthodontic Society National Conference, Kochi	
11	Dr. Ramya R Iyer, Reader, KMSDCH	<b>Best Paper Award</b> in XXII National Conference of Indian Association of Public Health Dentistry	
12	Dr. Rashmi Bhavasar, Professor, KMSDCH	<b>Best E-Poster</b> , at National conference on Teaching, Learning and Evaluation in higher education: Emerging challenges and opportunities, SVDU	
13	Dr. Chandramani B. More, Professor & HOD, Dept. of Oral Surgery, KMSDCH	<b>Senior Researcher Award</b>	Institute of Dental Sciences, Siksha 'O' Anusandhan Deemed to be University, Bhubneshwar
			College of Dental Science and Hospital, Amargadh, Bhavnagar
14	Dr. Rashmi Venkatesh, Professor, KMSDCH	<b>Best E-Poster</b> , at National conference on Teaching, Learning and Evaluation in higher education: Emerging challenges and opportunities, SVDU	
15	Dr. Anshula Deshpande Professor, KMSDCH	<b>Best Research Paper</b> at 40 <sup>th</sup> National Conference of Indian Society of Pedodontics & Preventive Dentistry, PEDOCON 2018, Nagpur	
16	Dr. Bhavna Dave, Professor & Dean KMSDCH	<b>Fellow</b> of Indian Society of Pedodontics & Preventive Dentistry	
17	Dr Jasuma Rai, Professor, KMSDCH	Post Graduate Diploma in <b>Intellectual Property Rights Law</b> , National Law School of India University, Bangalore	

# FOLLOW UP NEWS OF PREVIOUS RESEARCH THEME

## 1. Microbiome Research Will Accelerate The Blue Biotechnology Industry By Linh Anh Cat February 23, 2019

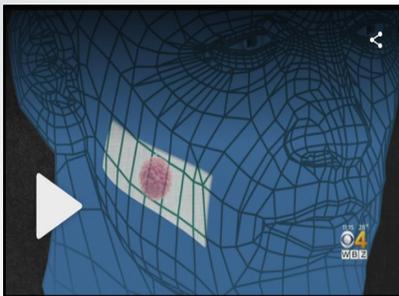
Microbiome research will accelerate developments in the blue biotechnology industry. Only a tiny fraction of marine microorganisms can be cultured and tested for bioactive compounds in labs, but microbiome research uses next-generation sequencing to simply capture the genetic sequences of marine organisms. According to Dr. Chase, "marine sediments are vastly understudied but provide a huge reservoir for biosynthesis potential". He works in the lab that created NaPDos, which rapidly screens for genes of interest for natural product discovery. After screening, collaborating labs at SIO isolate the products and eventually use them in clinical trials for anticancer, antibiotic, or antifungal treatment.

Earlier this year, researchers found that jellyfish have species-specific microbiome that differ from the microbiomes of the water they live in. The jellyfish have a symbiosis with bacteria that are known to have biotechnological potential.

<https://www.forbes.com/sites/linhanhcat/2019/02/23/microbiome-research-blue-biotechnology/#4b5fed9e403c>



## 2. Local Researchers Create Patch That Can Fight Cancer By Dr. Mallika Marshall February 25, 2019



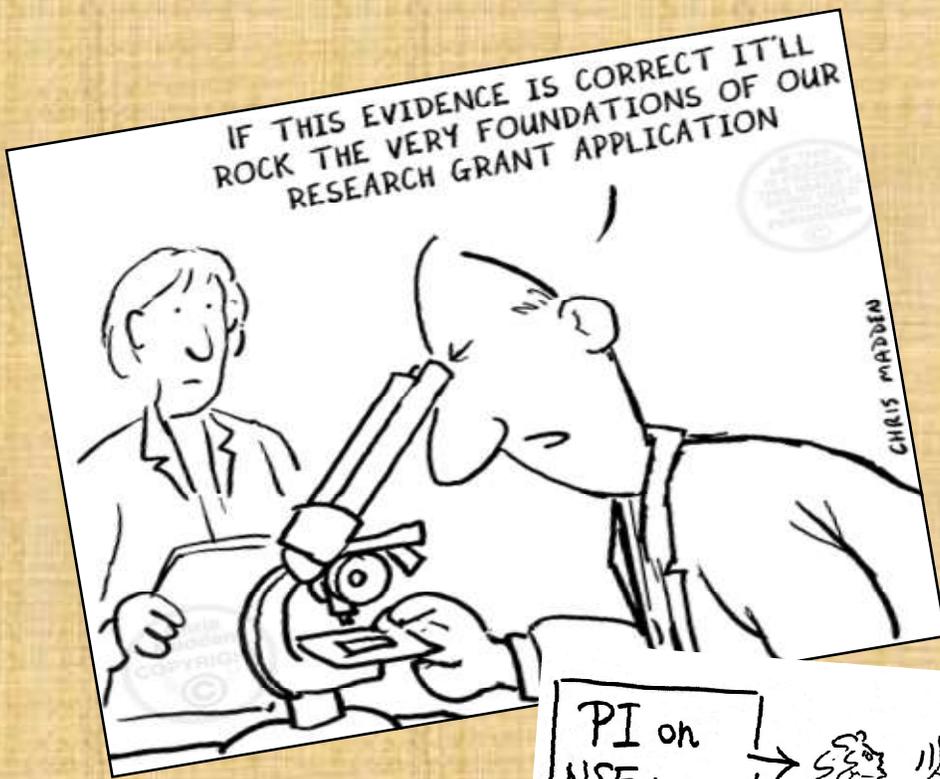
BOSTON (CBS) – Pat Padgett fought a brave battle after a heart-breaking diagnosis. He was young, incredibly fit, but he had oral cancer, and it was terminal. Patrick's struggle was the inspiration for Dr. Manijeh Goldberg's research to find a way to shrink oral cancer tumors to avoid those disfiguring surgeries.

Goldberg and her team at **Privo Technologies** in Peabody came up with a **patch that can fight cancer** without the side effects of chemotherapy. Using nano-technology, the chemotherapy drug is wrapped inside **tiny particles that are released from the patch and aim only for the cancer**. The patch is in clinical trials right now in Texas and Ohio, and while this potential treatment comes too late for Pat, his father is optimistic that someday it will bring new hope to people facing oral cancer.

"It even looks like a Band-Aid, doesn't it?" said Dr. Goldberg. "You place it right where the tumor is." "So what we've worked for seven years on, how do we make sure that healthy cells don't like these particles, but cancer cells love them," said Dr. Goldberg.

If clinical trials are successful, Dr. Goldberg hopes the technology could work on other cancers. Surgeons could place the bandage inside the body after removing a tumor to kill any remaining cells.

<https://boston.cbslocal.com/2019/02/25/chemo-bandaid-cancer-bandage-chemotherapy-privo-technologies/>



For your suggestions, mail us on :

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