



**Ram Lal Anand College
University of Delhi**

**Best Practices
2022-23**



Best Practice: 1

2022-23

**Inspiring Innovation:
Cultivating a Dynamic Research
Environment**

Objectives of the Practice

Facilitating access to research opportunities for all students and staff

Promoting active involvement of students in research and innovation efforts.

Context

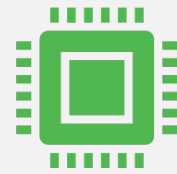
Research holds paramount importance in higher education as it aids students in comprehending concepts and ideas, ultimately enhancing the overall quality of education.

Higher education institutions not only contribute to the personal growth of individuals but also nurture proactive citizens essential for societal progress.

Optimal outcome necessitate modern and efficient management of both grants and personnel within institutions.

It is crucial to develop strategies and implement measures aimed at bolstering research endeavors in sync with the recommendations of NEP2020 and elevating research standards at these institutions.

The Practice



Research and Intellectual Property Rights (IPR) cell engages proactively with faculty and students across all departments to inspire and guide for research initiatives and project proposal drafting, with the ultimate objective of securing external mural funding for research endeavors within the college.



College Research Grant is for small projects submitted by faculty and students to the tune of INR 30,000 to 50,000. Due to the disruption caused by the COVID-19 pandemic, the I round of projects were granted time extensions till Dec 2022.

The Practice

The outcomes of these CRG projects have been very encouraging and enthused faculty members and students to get involved in research and helped in creating an innovative ecosystem in the college.

Under these, more than 50 students, learned to design a research study, devise methodology, to implement the methodology, complete the study, compile and analyse results, write a project report, draw inferences, and plan further study. The students learned scientific writing and communicating the findings in the form of publications and presentations.

5 research articles were published out of this work in international journals of repute by with students as co-authors; A total of 11 papers were presented at international conferences; Seven dissertations were submitted by the students working under these projects.

The Practice

+ The college issued a second call for CRG with a total grant amount of Rs. 745,000 approved and disbursed for 9 research projects.

	Title	PI and co-PI	Budget (Rs.)
1	Examining the stress and stressors among undergraduate students: cross-sectional study in University of Delhi	Dr. Anurag Sharma Dr. Kuldeep S. Chauhan	15000
2	Implications of Vedic wisdom for youth in 21 st Century	Dr. Krishan G. Tyagi Dr. Parul Lau Gaur	30000
3	Isolation and screening of azithromycin resistant bacteria from Yamuna river in Delhi	Dr. Swagata Karmakar Dr. Prerna Diwan	100000
4	Exploring the plastic degradation potential of microbial consortium isolated from landfill sites in Delhi	Dr. Sunila Hooda Dr. Swagata Karmakar	100000
5	<i>Bacopa monnieri</i> and <i>Parmotrema perlatum</i> extract: LC MS analysis to quest compounds having inhibitory activity against ESKAPE bacterial pathogens	Dr. Shalini Swami Dr. Sunila Hooda	100000
6	Evaluating <i>Parmotrema perlatum</i> extracts for the presence of antifungal bioactives	Dr. Salome John Dr. Shalini Swami	100000
7	Assessment of groundwater quality and associated human-health risk in the area around Bhalaswa landfill site, Delhi, India	Dr. Virendra B Singh Dr. Prerna Diwan	100000
8	Repurposing drugs through phenotypic screening against Methicillin Resistant <i>Staphylococcus aureus</i> (MRSA)	Dr. Vandana Gupta Dr. Nidhi S Chandra	100000
9	Evaluation of anti ESKAPE potential of <i>Rauwolfia serpentina</i> and <i>Terminalia chebula</i>	Dr. Nidhi S Chandra Dr. Vandana Gupta	100000



The Practice

- + During the session 2022-2023, Research and IPR cell conducted a workshop ‘**ENTREPRENEURIAL VENTURE WORKSHOP**’ on 30 Sep 2022, with Mr. Vikas Phogat, a registered patent Attorney, Founder of IPLOEA, expert IPR and Patent firm. This elaborate interactive sessionsaw a participation more than 144 participants
- + An offline Startup incubation programme “ENTE-ARISE 1.0” was organized on 7th October 2023 which showcased students entrepreneurs and their innovative business ideas.
- + A seminar “Invest Verse” held on 5 November, 2022, introduced participants to the world of investing and teach them about different asset classes and how to manage their finances.



Centre for Entrepreneurship and Technology Development (E-cell)

Ram Lal Anand College | University Of Delhi



PRESENTS

"ROADMAP TO START A SUCCESSFUL ENTREPRENEURIAL VENTURE"

A WORKSHOP ON STARTUP INCUBATION

BUSINESS ENTHUSIASTS, JOIN US TO LEARN HOW TO PROCEED FROM HAVING AN IDEA TO MONETIZING IT AS A PROFITABLE BUSINESS!

DETAILS

TIME : 5:30 PM - 7:00 PM

DATE : 30 September, 2022, Friday

PLATFORM: Google Meet

E-CERTIFICATES TO ALL PARTICIPANTS !

Scan here to register!



Speaker

MR. VIKAS PHOGAT

VP- Campus India & Asia, SET R&D- IDEMIA
22+ years experience working in startups & incubation centers



FOR QUERIES, CONTACT:

Shubhnath Sharma (President): 9589731218

Ujjwal Dingliwal (Vice-President): 8595154001

PROF. RAKESH KUMAR GUPTA

PRINCIPAL

PROF. SEEMA GUPTA

CONVENOR

MR. SIDDHARTH GUPTA

CO-CONVENOR

MATURITY

MATURITY



- You are more process dependent than people
- Quality by design
- Market and customer focus
- Efficiency
- Profitability
- Innovation is at the core
- Trusted Brand and values
- You will be big enough to hire experts for IPO etc

Vikas Phogat (Presentation)



Vikas Phogat

<p>Ishita Goel</p>	<p>seemagupta stat</p>
<p>ECell RLA</p>	<p>JATIN MANCHANDA</p>
<p>SAGAR CHAUDHARY</p>	<p>Saachi Pagia</p>
<p>SAHIL HINDI</p>	<p>Gautam E-Cell</p>
<p>56 others</p>	<p>You</p>




THE CENTRE FOR ENTREPRENEURSHIP AND TECHNOLOGY DEVELOPMENT
Ram Lal Anand College
University of Delhi


DO YOU HAVE WHAT IT TAKES TO TURN YOUR VENTURE IDEA INTO A REALITY?

E-CELL, RLAC PRESENTS

ENTE-ARISE 1.0

STARTUP INCUBATION PROGRAMME

YOUR CHANCE TO GET SEED FUNDING FROM THE COLLEGE FOR YOUR VENTURE !

EXCLUSIVELY FOR RLAC STUDENTS

SO PREP UP YOUR PLANS & BE READY FOR A 3-ROUND BATTLE OF BRAINS !

REGISTRATIONS BEGIN 1ST OCTOBER '22

FOR QUERIES, CONTACT:
 Shubhnath Sharma (President): 9589731218
 Ujjwal Dingliwal (Vice-President): 8595154001

SCAN FOR ALL EVENT DETAILS



Register yourself by scanning here from 1 to 7 October 2022

Prof. Rakesh Kumar Gupta **Prof. Seema Gupta** **Mr. Siddharth Gupta**
 Principal Convener Co-Convener





E – Cell Ram Lal Anand College



University of Delhi
with



**YOUR MIND IS YOUR GREATEST ASSET
INVEST IN IT!**

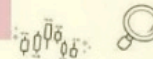
Sponsored by HDFC Mutual Fund and NSE Academy.



Date: 5th November 2022

Time 11.00 am

[Click Here to Register](#)



**For Queries
Contact**

Tanishka Aggarwal
8076045893
Mehul Ray
9711277921

Siddharth Gupta
Co- Convenor

Prof. Seema Gupta
Convenor

Prof. Rakesh Kr. Gupta
Principal



Evidence of Success

- + Best Teacher award to Prof. Prerna Diwan by Microbiologists society India in 2022 for teaching and research.



Evidence of Success

- + Best Researcher Award to Dr. Nidhi Chandra by International Research Awards on Science, Technology and Management in 30 November 2022.

CERTIFICATE OF ACHIEVEMENT

This is to certify that



Dr. NIDHI S CHANDRA

ASSISTANT PROFESSOR, DEPARTMENT OF MICROBIOLOGY,
RAM LAL ANAND COLLEGE,
NEW DELHI, INDIA.

Has Won

BEST RESEARCHER AWARD

the International Research Awards on Science, Technology and Management - INSO,
Organized by VDGGOOD Professional Association, India.

M. Dinesh
Mr. M. Dinesh

Association Director



Review

Evaluating Alterations of the Oral Microbiome and Its Link to Oral Cancer among Betel Quid Chewers: Prospecting Reversal through Probiotic Intervention

Prerna Diwan ^{1,*}, Mohit Nirwan ¹, Mayank Bahuguna ¹, Shashi Prabha Kumari ¹, James Wahlang ² and Rakesh Kumar Gupta ¹

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Abstract: Areca nut and slaked lime, with or without tobacco wrapped in *Piper betle* leaf, prepared as betel quid, is extensively consumed as a masticatory product in many countries across the world. Betel Quid can promote the malignant transformation of oral lesions as well as trigger benign cellular and molecular changes. In the oral cavity, it causes changes at the compositional level in oral microbiota called dysbiosis. This dysbiosis may play an important role in Oral Cancer in betel quid chewers. The abnormal presence and increase of bacteria *Fusobacterium nucleatum*, *Capnocytophaga gingivalis*, *Prevotella melaninogenica*, *Peptostreptococcus* sp., *Porphyromonas gingivalis*, and *Streptococcus mitis* in saliva and/or other oral sites of the cancer patients has attracted frequent attention for its association with oral cancer development. In the present review, the authors have analysed the literature reports to revisit the oncogenic potential of betel quid and oral microbiome alterations, evaluating the potential of oral microbiota both as a driver and biomarker of oral cancer. The authors have also shared a perspective that the restoration of local microbiota can become a potentially therapeutic or prophylactic strategy for the delay or reversal of lip and oral cavity cancers, especially in high-risk population groups.

Keywords: microbiome; precancerous; lesions; betel quid; arecoline; areca nut

1. Introduction

Oral cancer (OC) is a major public health problem in South-Central Asia and Oceania (hotspots), with the highest estimated incidence rates in Papua New Guinea, Pakistan, Bangladesh, and India (one-third of total registered OC cases in 2020). According to the International Agency for Research on Cancer (IARC) Registries, GLOBOCAN (2020), Asia alone accounts for 65.8% of the estimated new cases of Lip and Oral cavity cancer (C00-C06) in comparison to Europe (65,279; 17.3%), North America (27,469; 7.3%), and the Caribbean region (17,888; 4.7%) (Figure 1) [1]. In Asia, India registered the highest number (36%) of C00-C06 in terms of total new cases in the South-East-Asia-specific region [1]. Following India, neighbouring countries Pakistan and Bangladesh report the highest incidences and mortality, thereby increasing the burden of OC in the South-East Asian belt (Figure 2) [1,2]. In this region, the age-old tradition of chewing betel quid (BQ) with or without tobacco is deeply rooted and believed to have an origin in moist tropical climates. The rampant chewing of BQ is due to its abundant availability at a cheap cost and the social and cultural imbibition of the practice.

BQ is prepared with betel leaf (*Piper betle*), areca nut (*Areca catechu*), catechu (*Acacia catechu*), and slaked lime with or without tobacco, popularly known as *Pam* in India and



Citation: Diwan, P.; Nirwan, M.; Bahuguna, M.; Kumari, S.P.; Wahlang, J.; Gupta, R.K. Evaluating Alterations of the Oral Microbiome and Its Link to Oral Cancer among Betel Quid Chewers: Prospecting Reversal through Probiotic Intervention. *Pathogens* **2023**, *12*, 996. <https://doi.org/10.3390/pathogens12080996>

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Research Publications

+ Our research activity enhanced with faculty publishing 83 research publications, 5 books and 25 book chapters.

 | Frontiers in **Genome Editing**

TYPE Review
 PUBLISHED 21 June 2023
 DOI 10.3389/fgeed.2023.1200987

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Regulation and safety measures for nanotechnology-based agri-products

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HGSmark: An efficient ECG watermarking scheme using hunger games search and Bayesian regularization BPNN

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Survival Rate Estimation of Cervix Cancer Patients Using K-M and W-K-M

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<https://dx.doi.org/10.13005/bpj/2524>

(Received: 08 January 2021; accepted: 27 September 2022)

In clinical practice, survival curves show the fraction of patients who experienced the outcome of interest. Survival rates are estimated using survival curves which are determined using Kaplan-Meier method. However, when in case of large number of censored observations, Kaplan-Meier method tends to provide biased estimates. This research article compares widely used Kaplan-Meier (K-M) method & Weighted Kaplan-Meier (WKM) method as a suitable substitute of KM while dealing with the issue of heavy-censoring by applying them on real life data of 900 Cervix Cancer patients diagnosed and treated during 2012-2018 at Rajiv Gandhi Cancer Institute and Research Center, Delhi are analyzed. Then, Five year survival rate of the patients is estimated by using K-M and WKM methods. It was observed that out of 900, 547 (60.78%) patients experienced the event till last follow up and rest of the patients (39.22%)

Surveillance of two Noida drains for assessing the presence of carbapenem-resistant ESKAPE bacteria

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Abstract—Antimicrobial resistance (AMR) is a major public health concern for clinicians all over the world. It occurs due to careless consumption of antibiotics and not completing the prescribed regimen. In India, environmental factors such as pollution, lack of cleanliness and hygiene also exacerbate the problem. If efforts are not put into combating this threat it is predicted to have a devastating impact on the economy and will be a deterrent in achieving United Nation's sustainable development goals. Regional and periodical characterization of microbial resistomes is essential for timely treatment decisions by doctors and prevention of the spread of drug-resistant infections. However, obtaining AMR data from clinical

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14216

Prospecting Risk factors for Anxiety and Depression among University Students : A Delhi based Cross-Sectional Study

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Abstract

Recent studies on trends in depression and anxiety have led to raised concern regarding overall health status of college students during this crucial period of transition into adulthood which can potentially adversely affect their social and academic development. The present study aims to examine the association of various socio-demographic factors along with different forms of social and physical activities with prevalence of

Patent

College faculty, Prof. Vandana Gupta, Department of Microbiology has been granted an Indian Patent on “Method of screening inhibitors against Hepatitis C virus” Patent No. 418733.

The Indian Patent applied by Prof. Vandana Gupta from the Department of Microbiology is granted in Jan 2023 with the Patent no. 418733. Patent entitled “Method of screening inhibitors against Hepatitis C virus” was applied in Mar 2017 (application no. 201711011516) and the complete specification filed in March 2018 (no. R20181009113). HCV is a virus of global concern and infects millions of people annually. The virus can cause acute as well as chronic infections including hepato-cellular carcinoma and live cirrhosis. The patent reveals a method of screening the inhibitors against the helicase enzyme of Hepatitis C virus which is crucial for the replication of this deadly virus inside the host cell. The discovery might help in finding novel and effective therapeutic interventions for HCV.



1. Patent Granted: No. 418733 “Method of screening inhibitors against Hepatitis C virus” on March 30, 2017 (application no. 201711011516) and complete specification filed in March 2018 (reference no. R20181009113) Date of Grant Jan 2023 (validity 20 yrs from 30 March 2017)

Research Projects

Two new projects from ICMR of 28.3 and 19.5 lakhs have been granted to Ms Dikscha Sapra in collaboration with the Institute of Bioinformatics, Bangalore and Dr Neeraj Kumar of computer Science.

Research Projects

One project from National Mission on Himalayan studies (NMHS) by MOEF&CC, Government of India of 1.99 Crore granted to Prof. Seema Gupta, Prof. Rakesh Kumar Prof Mukta Mazumdar Dr Rajesh Sachdev Dr Prabhas Pandey (Statistics, History, Geology) of title 'Enhancement of Livelihood Opportunities through Sustainable Development using Multifaceted Support Plans for Village Cluster around Patiya in Takula Block, Almora District, Uttarakhand' in 2019 (ongoing in 2022-23) was completed.



Field Trip at the Project Site at Village Kotyura

4 New Ph.Ds registered during the year 2022-23

S.No	Name of Faculty Supervisor	Name of the scholar	Year of registration of the scholar	Title of the thesis for scholar
1	Dr. Deepti Bhardwaj	Aishwarya Singh	30.01.2023	Pioneer Girl: Colonial Girlhood in Bessie Marchant's Adventure Fiction
2	Dr Seema Gupta	Shreya Sharma	31.1.2023	Design of Experiment
3	Dr Shruti Anand	Shalini Sagar	17.2.23	samkaleen asmitamoolak hindi upanayaso mein hashiye ka vimarsh
4	Dr Pratik Kumar	Ashutosh Kumar Roy	17.3.2017	Debates on Nationalism: Hindi public sphere in the 19th and 20th C.A.D.

Best Practice: 2 2022-23

Towards a Sustainable Campus Community:
Promoting environmental Awareness and Action.

Objectives of the Practice

Fostering Students' Social
Responsibility towards
sustainable Practices

Encouraging Energy Efficiency
and Cultivating Social
Responsibility Among Students
and staff

The Context

- + The continual rise in population and evolving lifestyles are exacerbating environmental issues, rendering them increasingly critical.
- + With environmental sustainability gaining escalating global importance, the role of higher educational institutions in promoting environmental sustainability has become increasingly prominent.
- + It is becoming progressively crucial for educational institutions to embrace eco-friendly practices and implement effective measures for sustainable development.
- + Utilizing environmentally friendly alternatives aids educational institutions in lowering their energy consumption, generate awareness in community through students.

New Monitoring Committees

Swachhata Action Plan Committee (Implementation & Monitoring)

Dr. Parul Lau Gaur	Convenor
Dr. Ritambhara Misra	Co-Convenor
Prof. Sanjay Kumar	NCC Incharge
Dr. Rita Jain	NSS Incharge
Prof. Archana Gaur	
Dr. Neeraj Sharma	
Dr. Swagata Karmakar	
Dr. Virender Bahadur Singh	

Campus Cleanliness & Hygiene Committee

Dr. Ritambhara Misra	Convenor
Dr. Annie Ray	Co-Convenor
Dr. Srishti Pathak	
Ms. Manisha Wadhwa	

E-Waste Management

Dr. Neeraj Sharma	Convenor
Ms. Sakshi Taaresh Khanna	
Ms. Pooja Yadav	

Green Campus

Dr. Rita Jain	Convenor
Dr. Nidhi Yadav	
Dr. Nidhi S. Chandra	
Dr. Anurag Sharma	

Solid Waste Management Including Biowaste

Dr. Vijay K. Bhatia	Convenor
Dr. Virender Bahadur Singh	Co-convenor
Prof. Vandana Gupta	

Water Management (Recycling, Safe Drinking Water, Conservation, STP)

Dr. Prabhas Pande	Convenor
Dr. Ravish Lal	Co-convenor
Dr. Swagata Karmakar	



The college has become self-sufficient in energy generation through installation of 130 KV solar Panels.

Evidence of Success

- + The institution's commitment to sustainability has been recognized through "Cleanliness Champion," recognition presented by the Municipal Corporation of Delhi (MCD).
- + This accolade acknowledges the College's exemplary efforts in promoting sustainability across various domains, including sanitation, waste management, water conservation, energy management, and greenery.



Composting: Solid waste Management



Research and outreach Project related to environment

College organised 'Enhancement of Livelihood Opportunities through Sustainable Development using Multifaceted Support Plans for Village Cluster at Pattiya in Takula Block, Almora District, Uttarakhand'



Geo-tourism: tourists enjoying food at a homestay in Village Pattiya



Field Trip at the Project Site at Village Kotyura



Project highlights

- Augmentation in Agricultural productivity through mitigation of Human Wildlife Conflict (HWC)
- To create Geo-tourism model for conservation of geologically important sites to generate employment for the local population and improve tourism potential of this area.
- Increase Green Cover and water management
- To provide supplementary livelihood opportunities to rural people through cultivation and processing of indigenous cash crops.

College organized Geo-tourism Awareness Campaign at Village Dinapani





Evidence of Success

- + The College actively organised environmental awareness programs
- + Participated in national and international seminars and webinars on topics related to environmental science and policy, such as the '**Saga of Ozone Layer Science and Policy**' and '**Climate of the Past from Ice Cores - Lessons on Anthropogenic Carbon Emissions.**' These events provide valuable opportunities for knowledge exchange and collaboration with experts in the field.