



SANDIP FOUNDATION'S
SANDIP INSTITUTE OF PHARMACEUTICAL SCIENCES

At Post- Mahiravani, Tal/Dist. Nashik-422213, Maharashtra, India

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Affiliated to Savitribai Phule Pune University, Approved by PCI, New Delhi, NAAC Accredited



Savitribai Phule Pune University

College/Institute Level

Avishkar Research Competition 2023-24

Sandip Institute of Pharmaceutical Sciences, Mahiravani, Nashik

Brochure:

Sandip Foundation's
**Sandip Institute of Pharmaceutical Sciences,
Mahiravani, Nashik.**

**Savitribai Phule Pune University
College/Institute level**

**Avishkar
Research Competition**

**Date: 30th September 2023
Time: 02:00 pm to 05:00 pm
Venue: SIPS, Nashik.**

**Co-ordinators
Dr. Sarika Kamble
Ms. Mayuri Patil**

**Convener
Dr. Laxmikant B. Borse**

Eligibility: B. Pharmacy, M. Pharmacy and Teachers

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College Level AVISHKAR Competition-2023-24

REPORT

Sandip Institute of Pharmaceutical Sciences, Mahiravani, Nashik had organized college level Avishkar Research Competition- 2023-24 in an enthusiastic environment. To inculcate research attitude, enrich presentation skills in students, SPPU organizing such competition since 2006. Formerly the format of this competition includes 3 stages such as Zonal Level, district level and university level. Now SPPU had change the format and introduce college level stage also. Sandip Institute of Pharmaceutical Sciences, Mahiravani, Nashik with this directive from university had organize college level Avishkar Research Competition on Thursday 30th September 2023.

On the occasion of inaugural function Dr. Gayatri Phade from SITRC College of Engineering, Nashik and Dr. Pravin Zha from Sandip School of Pharmacy, Sandip University were present as a chief guest; while the function is presided over by Prin. L. B. Borse, Sandip Institute of Pharmaceutical Sciences, Mahiravani, Nashik. Dr. S. M. Kamble had delivered preface for Programme. Dr. Swati Talele commented during her speech says that “Students should bright out the research, which is useful for the society for the noblecause. Dr. Pravin Zha praises the efforts taken by college and university for the upliftment of research attitude in student during his talk. Prin. L. B. Borsein his presidential speech said that “students should grab such opportunities to explore themselves specially after the pandemic. The inaugural function is anchored by VaishnviDhamne and Pranav Shinde.

For this college level Avishkar Research Competition 2023. 16 students from UG and 09 students from PG level as well as 02 participants from Teachers had represented their research projects. The evaluation of research project is done by Dr. Pravin Zha and Dr. Gayatri Phade. There were 4 projects from UG and 02 projects from PG level and 1 project fro teachers got selected for next level.

Dr. Sarika Kamble (ARC) and Ms. Mayuri Patil had taken huge efforts for successful organization of the event. All teaching,non-teaching faculty cumulatively worked for the successful completion of the Programme.

Academic Research Coordinator



Principal



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College Level AVISHKAR Competition-2022

List of Participants

Date: 30/09/2023

Level: UG/PG/Teachers

Sr No	Name of Participants	Category UG/PG	Project Title	Class
1	Satalkar Pooja Vitthal Porje Sonal Dnyaneshwar	UG01	Herbal Digestive Tablet	TY
2	Aishwarya Anil Kshirsagar Dyeshwari Lokhande	UG02	Face Scrub Cube	TY
3	Sakshi Kishor Teli Vaishnavi Atul Khairnar	UG03	Pre Herbal Hairmask	TY
4	Tejasvi Sahebrao Shinde Pranav Bhavanidas Shinde	UG04	Formulation & Evaluation of Anti- acne Polyherbal Gel	TY
5	Vaishnavi Milind Dhamne Swanand Ambekar	UG05	Effervescent Tablet	TY
6	Prachi Vilas Raut Komal Dinesh Kadale	UG06	Wound Healing & Analgesic Gel	TY
7	Ajinkya Anil Dhumne Chirayu Pravin Patil	UG07	Spreadability Apparatus	Final Year
8	Samiksha R.Kothawade Sakshi.R.Gawali	UG08	Herbal Jelly For Cough	TY

9	Tarawade Namrata Patil Bhushan Sadgir Anil (Pharmaceutics)	PG01	Enhancement of Solubility of Ketoconazole by using Pastillation Technique	M. Pharmacy
10	Diksha Nunse Rohit Thete (Pharmaceutics)	PG02	Novel Stimuli Responsive Delivery System for Dental Carries	M. Pharmacy
11	Jumde Shilpa Sajid Mansuri (Pharmaceutics)	PG03	Claripro: Proniosomal Clarithromycin: A Novel Approach for H.Pylori Treatment	M. Pharmacy
12	Yogeshwari S. Ambekar Saurabh Avhad Ketan V. Mengal (QA)	PG04	Analytical Techniques used in Metabolomics Analysis	M. Pharmacy
13	Mr. Amit Gaikwad Ms.Mayuri Patil	Teaching	Anti -Ulcer Activity Of Formulation Using Aq. Extract Of Garcinia Indica Fruits And Acimum Sanctum Seed Mucilage	PPG/Teachers

MP Shete

Academic Research Coordinator

MAH

Principal





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AVISHKAR RESEARCH COMPETITION

(College Level)

Saturday, 30th September 2023

LIST OF SELECTED CANDIDATES FOR NEXT LEVEL

Sr. No.	Category	UG	PG	PPG/ Teachers
1	Medicine and Pharmacy	02	02	01
2	Agriculture and Animal Husbandry	02	-	-
3	Commerce, Management and Law	-	-	-
4	Engineering and Technology	-	-	-

Academic Research Coordinator

Principal



AVISHKAR RESEARCH COMPETITION

(College Level)

Saturday, 30th September 2023

LIST OF SELECTED CANDIDATES FOR NEXT LEVEL

Rank	Name of Participants	Poster code	Title of project	Category
1	Tejashri Sahebrao Shinde Pranav Bhavanidas Shinde	UG-04	Formulation & Evaluation of Anti-acne, Analgesic Polyherbal Gel	UG Medicine and Pharmacy
2	Ajinkya Anil Dhumne Chirayu Pravin Patil	UG-07	Development of Spreadability Apparatus	UG Medicine and Pharmacy
1	Vaishnavi Milind Dhamne Swanand Ambekar	UG-05	Formulation and evaluation of Effervescent Tablet for peptic ulcer	UG Agriculture and Animal Husbandry
2	Prachi Vilas Raut Komal Dinesh Kadale	UG-06	Wound Healing & Analgesic Gel	UG Agriculture and Animal Husbandry
1	Jumde Shilpa	PG-03	Claripro:	PG

	Sajid Mansuri		Proniosomal Clarithromycin: A Novel Approach for H.Pylori Treatment	Medicine and Pharmacy
2	Sadgir Anil Tarawade Namrata Patil Bhushan	PG-01	Enhancement of Solubility of Ketoconazole by using Pastillation Technique	PG Medicine and Pharmacy
1	Mr. Amit Gaikwad Ms.Mayuri Patil	Teachers	Anti -Ulcer Activity of Formulation Using Aq. Extract of Garcinia Indica Fruits and Ocimum Sanctum Seed Mucilage	PPG/ Teachers Medicine and Pharmacy



Academic Research Coordinator



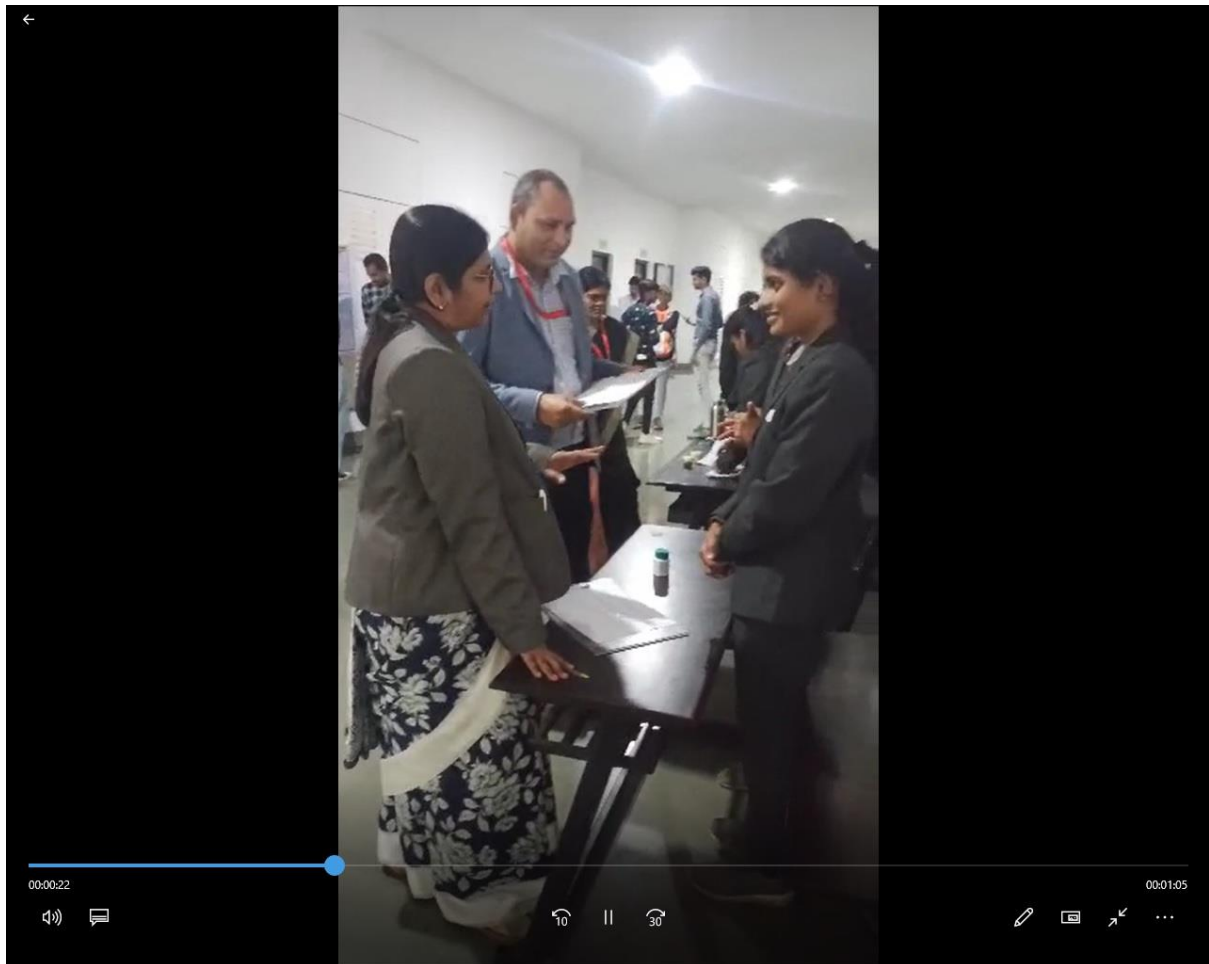

Principal

Photos



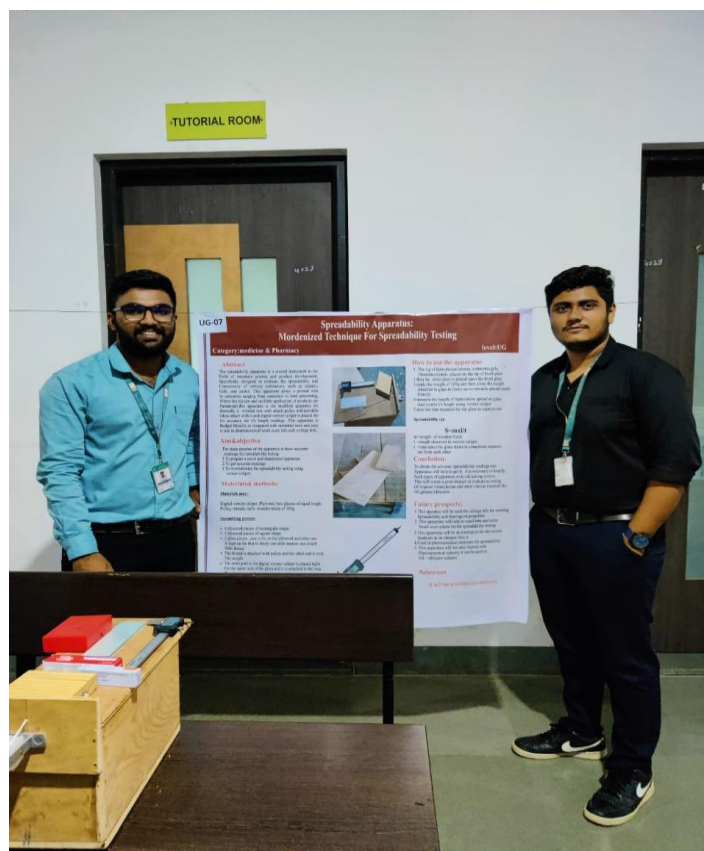


Video Clip- 1 Min



Selected Poster

Level: UG







Teaching



ABSTRACT

Level: UG

Formulation & Evaluation of Anti-acne, Analgesic Polyherbal Gel

Sandip Institute of Pharmaceutical Sciences, Mahiravani, Nashik

Tejaswi Sahebrao Shinde and Pranav Bhavanidas Shinde

Abstract:

Gels are one of the most convenient and effective forms of topical administration. Formulation of polyherbal gel of 2 plants namely Lantana Camara and Lagerstroemia speciosa (Taman) shows anti-bacterial properties against staphylococcus species. This gel can be used to treat acne vulgaris. The extraction of dried plant leaf was mainly carried out by Soxhlet extraction method and Hot maceration. The formulated gel was evaluated for organoleptic characters and parameters such as spreadability, viscosity and pH.

Keywords: Lantana camara, Lagerstroemia speciosa, Acne vulgaris, anti-bacterial

Development of Spreadability Apparatus

Sandip Institute of Pharmaceutical Sciences, Mahiravani, Nashik

Ajinkya Anil Dhumne and Chirayu Pravin Patil

Abstract

The Spreadability Apparatus is a crucial instrument in the field of materials science and product development, specifically designed to evaluate the spreadability and consistency of various substances, such as creams, gels, and pastes. This apparatus plays a pivotal role in industries ranging from cosmetics to food processing, where the texture and uniform application of products are paramount. This Apparatus is the modified Apparatus it's basically a wooden box with attach pulley and movable glass attach with it and digital vernier caliper is placed for it's accuracy for it's length readings. This apparatus is budget friend as compared with industrial ones and easy to use in pharmaceutical small scale labs and college labs.

Formulation and evaluation of Effervescent Tablet for peptic ulcer

Sandip Institute of Pharmaceutical Sciences, Mahiravani, Nashik

Vaishnavi Milind Dhamne and Swanand Ambekar

Abstract-

The fluidized bed processing technology is the potential tool to develop newer trends and implication within the area of formulation and development with improve therapeutic efficacy. The fluidized bed processor is employed for coating, drying, layering and granulation. It is current capturing the market leaps and bounds with recent trends and development with its revolutionary techniques. Fluidized bed granulation technique is most rising and upcoming face of granulation technology of pharmaceutics.

Wound Healing & Analgesic Gel

Sandip Institute of Pharmaceutical Sciences, Mahiravani, Nashik

Prachi Vilas Raut and Komal Dinesh Kadale

Abstract-

The objective of formulation and evaluation of herbal gel for treatment of inflammation by using dried powdered Foxtail Palm Fruit. Herbal gel was prepared by using Different concentration of foxtail palm fruit extract and Carbopol 934, triethanolamine. The formulated gel was Brownish, homogenous and pH ranges from 5 to 5.5. Formulation showed acceptable rheological behavior with applicable spreadability and Viscosity. Developed herbal formulation was stable and safe.

Claripro: Proniosomal Clarithromycin: A Novel Approach for H.Pylori Treatment

Sandip Institute of Pharmaceutical Sciences, Mahiravani, Nashik

Jumde Shilpa and Sajid Mansuri

Abstract:

Clarithromycin is a macrolide antibiotic used for the treatment of a wide variety of bacterial infections such as acute otitis, pharyngitis, tonsillitis, respiratory tract infections, uncomplicated skin infections, and helicobacter pylori infection.

Enhancement of Solubility of Ketoconazole by using Pastillation Technique

Sandip Institute of Pharmaceutical Sciences, Mahiravani, Nashik

Sadgir Anil, Tarawade Namrata and Patil Bhushan

Abstract:

Ketoconazole, a BCS class II agent with a variety of applications, belongs to the antifungal drug class. Despite the fact that it has a low solubility, it dissolves slowly and has a reduced bioavailability. The development of a cutting-edge technique to increase solubility was the aim of this study. Pastillation is one of the newest and most innovative techniques for boosting a substance's solubility, rate of dissolution, and therefore bioavailability.

Keywords- Ketoconazole. Pastillation. Eudragit EPO. Solubility enhancement Antifungal

Anti -Ulcer Activity of Formulation Using Aq. Extract of Garcinia Indica Fruits and Ocimum Sanctum Seed Mucilage

Sandip Institute of Pharmaceutical Sciences, Mahiravani, Nashik.

Mr. Amit Gaikwad and Ms. Mayuri Patil

Abstract:-

In present study we have evaluated Anti-Ulcer Activity of Garcinia indica fruits aq. Extract and mucilage of Ocimum Sanctum seeds. Aq. Extract of kokum was prepared by maceration method and mucilage was prepared by suspending these seeds in distilled water. The anti ulcer activity was evaluated by using 4 models as:

1. Ethanol Induced
2. Aspirin Induced
3. Pylorus ligated
4. Cold restraint Model

The anti ulcer activity was compared by using reference drugs Omeprazole and ranitidine respectively. The study shows that pre and post treatment with the preparations significantly reduced the intensity of gastric mucosal erosions and ulcers. The study reveals the potential of Garcinia indica fruits and Ocimum Sanctum seeds mucilage as preventive and curative treatment for gastric ulcer and can be step ahead in the development of economically affordable and effective antiulcer drug.



Academic Research Coordinator



Principal