3.5.1. Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange

I. List of MoUs:

Sr no	Name of the MoU / linkage	Year of signing MoU / linkage
1.	Academic Dicepher	16-01-2024
2.	Shree Educational Career Academy , Aurangabad (NGO-Empanelled with SEBI)	04-12-2023
3.	Association of Muslim Professionals, Mumbai	03-10-2023
4.	Deogiri College	07-08-2023
5.	Oriental College of Pharmacy, Sanpada, Navi Mumbai	27-04-2023
6.	Shreeyash Institute of Pharmaceuticals Education and Research, Aurangabad (MS)	24-03-2023
7.	R.V.Life Sciences Limited, MIDC Waluj, Aurangabad	24-02-2023
8.	Educare Globus (PharmaEducare), Nagpur (MS)	13-05-2022
9.	E-Recon Recycling, Aurangabad	28/03/2022
10.	Atal Incubation Center, Dr. BAMU Aurangabad	24-02-2022
11.	Kedar Khamitkar and Associates Latur	15-02-2022
12.	Dr RafiqZakaria College for women, Navkhanda, Aurangabad.	17-03-2020
13.	Rubicon Skill Development Pvt Ltd Pune	11-09-2019
14.	Social Research Foundation	11-10-2018
15.	Pollux Life Sciences Solutions, Mumbai	22-09-2017
16.	Tooba Pharmaceuticals Pvt Ltd MIDC Paithan Aurangabad	17-07-2017
17.	Ullmann Laboratories Pvt Ltd Aurangabad	18/11/2016
18.	Adora Products Pvt Limited Aurangabad	22-09-2016
19.	Lupin Limited Chikalthana Aurangabad	26-03-2014
20.	Maulana Azad College of Arts Science and Commerce Aurangabad	01-01-2014
21.	Wockhardt Limited Chikalthana Aurangabad	28-05-1999

II. Training record:

i. 2022-23

Sr. No.	Name of Organization	Number of students	Remarks
1	Wockhardt Limited	06	
2	Adora Pharmaceuticals Ltd.	08	
3	Ajanta Pharmaceuticals	07	
4	Concept Pharmaceuticals	05	
5	Redcross Formulation	05	
6	Mylan Limited	01	
7	FDC Limited	05	
8	Intas Pharma , Ahmedabad	01	
9	Indoco Remedies	01	
10	Abbott Healthcare Pvt Ltd	01	
11	Veegee Products	15	
12	Hospital Pharmacist Training	52	In Various Hospitals
13	Truelixir Life Sciences Aurangabad	02	
14	Nagina Herbal	01	
15	Glenmark	01	
16	Lupin Limited	01	

ii. **2021-22**

Sr. No.	Name of Organization	Number of students	Remarks
1	Wockhardt Limited	06	
2	Adora Pharmaceuticals Ltd.	04	
3	Ajanta Pharmaceuticals	07	
4	Concept Pharmaceuticals	03	
5	Redcross Formulation	04	
6	Nagina Herbal	01	
7	FDC Limited	01	
8	Intas Pharma , Ahmedabad	01	
9	Intas Pharma , Ahmedabad	02	
10	Abbott Healthcare Pvt Ltd	01	
11	Veegee Products	06	
12	Hospital Pharmacist Training	33	
13	Truelixir Life Sciences Aurangabad	01	
14	Umedica Labortories Pvt Ltd, Mumbai	01	
15	Johnson and Johnson (Ethicon)	01	

iii. **2020-21**

Sr. No.	Name of Organization	Number of students	Remarks
1	Wockhardt Limited	12	
2	Adora Pharmaceuticals Ltd.	04	
3	Ajanta Pharmaceuticals	06	
4	Lupin Limited	02	
5	Aurobindo Pharma Limited	02	
6	SehatEasy Pvt Limited	02	
7	Pristyn Reserch Solutions	01	
8	Concept Pharmaceuticals	09	
9	Kapoor Herbal Products	03	
10	FDC Limited	04	
11	Tooba Pharmaceuticals	01	
12	Rubicon Research	01	
13	Quantinental Pharmachem Ltd	01	
14	IndoCo remidies	01	
15	Nagina Herbal	04	
16	Sydler Remidies	01	
17	Eldorado Bio tech Pvt Ltd	01	
18	Mylan Laboratories	01	
19	Garicon Life Scinces	01	
20	Hospital Pharmacist Training	19	

iv. **2019-20**

Sr No	Name of Organization	Number of Students	Remarks
1.	Wockhardt Limited	08	
2.	Adora Pharmaceuticals Ltd.	07	
3.	Ajanta Pharmaceuticals	04	
4.	Lupin Limited	05	
5.	Ipca Laboratories	02	
6.	Concept Pharmaceuticals	05	
7.	Redcross Formulation	07	
8.	Kapoor Herbal Products	02	
9.	Nagina Herbal	03	
10.	Sydler Remidies	03	
11.	Atra Pharmaceuticals	02	
12.	Hospital Pharmacist Training	09	

v. **2018-19**

Sr No	Name of Organization	Number of Students	Remarks
1.	Wockhardt Limited	04	
2.	Adora Pharmaceuticals Ltd.	09	
3.	Ajanta Pharmaceuticals	07	
4.	Lupin Limited	08	
5.	Ipca Laboratories	01	
6.	Concept Pharmaceuticals	06	
7.	Redcross Formulation	01	
8.	Atra Pharmaccuticals	01	
9.	Hospital Pharmacist Training	01	
10.	Eurolife Healthcare Ltd	01	
11.	Zydus Limited	01	
12.	Syndler Remedies	01	
13.	FDC limited	01	

III. Sample copy (Proof of activities) under MOUs

Maulana Azad Educational Trust's

Y. B. Chavan College of Pharmacy Aurangabad

(B. Pharm, M. Pharm & Research Centre)

ISO 21001:2018 & 14001:2015 | NIRF-2023 ALL INDIA RANK 80th | NAAC "A" GRADE (CGPA 3.23) | UGC 2(f) 12(B)

NATIONAL LEVEL ONLINE ARTICLE WRITING COMPETITION

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Associate Professor
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Dr. Nikhil Sakle
Assistant Professor
Member

Mr. Altamash Ansari
Assistant Professor
Member

Ms. Nahid Chishti
Assistant Professor
Member

Dr. Rafiq Zakaria Campus, Rauza Bagh, Aurangabad, Maharashtra - 431001
Contact : 0240-2381129/ 02402391752

For any enquiry contact on email: ybccparticle@gmail.com

ASSOCIATION OF MUSLIM PROFESSIONALS
STRIVING FOR PEACE AND PROGRESS

AMU CENTRE
MALAPPURAM, KERALA

CERTIFICATE
OF APPRECIATION

PROUDLY PRESENTED TO

Prof. M. H.Dehghan

Principal, Y B Chavan College of Pharmacy, Aurangabad, Maharashtra.

for being a Resource Person
for AMP's 5 Days online Faculty Development Program on
"ROUND 2-NAAC ACCREDITATION - WAY FORWARD TO QUALITY EDUCATION"
from 11th December to 15th December 2023

the entire nation salutes your noble endeavour!

Mr. Aamir Edresy
President,
AMP

Dr. Faisal KP
Director, AMU Center,
Malappuram, Kerala

Mr. Faisal Siddiqui
Head (Partnerships & ICP)
AMP

ASSOCIATION OF MUSLIM PROFESSIONALS
STRIVING FOR PEACE AND PROGRESS

AMU CENTRE
MALAPPURAM, KERALA

AMP's Online 5-Day
FACULTY DEVELOPMENT PROGRAM

11th - 15th December 2023

Program for all Educators

TIME : 7:30 - 9:30 PM

SESSION 1 : Monday, 11 Dec 2023

Recap of NAAC Accreditation process and Outcome-based education

Welcome Note
Dr. Faisal KP
Director, AMU Centre, Malappuram, Kerala

Speaker
Prof. Naim R. Kidwai
Dy Director (IQAC) & Head (ECE), Integral University, Lucknow

SESSION 2 : Tuesday, 12 Dec 2023

Institutional Values and Best Practices

Speaker
Prof. Furqan Qamar
Centre for Management Studies, Jamia Millia Islamia, Ex-VC, University of Rajasthan & Central University of Himachal Pradesh.

SESSION 3 : Wednesday, 13 Dec 2023

Role of IQAC in the NAAC Accreditation Process

Speaker
Prof. M. H. Dehghan
Principal, Y B Chavan College of Pharmacy, Aurangabad, Maharashtra.

SESSION 4 : Thursday, 14 Dec 2023

SCAN & REGISTER

Research, Innovation & Extensions & Infrastructure & Learning Resources

Speaker
Dr. S. Kazim Naqvi
Offg. Director/Additional Director, FTK-Centre for Information Technology, Jamia Millia Islamia, New Delhi

SESSION 5 : Friday, 15 Dec 2023

Student Support and Progression & Governance, Leadership and Management

Speaker
Dr Saad bin Azhar
IQAC Member, Jamia Hamdard

Vote of Thanks
Dr. S.A. Malik
Coordinator, Dept of Law, AMU Centre, Malappuram, Kerala

More details at : www.ampindia.org/upcoming_webtalks

ASSOCIATION OF MUSLIM PROFESSIONALS
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MAULANA AZAD UNIVERSITY

AMU CENTRE
MALAPPURAM, KERALA

AMP's ONLINE 1-WEEK
FACULTY DEVELOPMENT PROGRAM

15th – 20th January 2024

Program for all Educators

TIME : 7:30 - 9:30 PM

SESSION 1 : Monday, 15 Jan 2024

Higher Education: Challenges and Opportunities

Welcome Note
Dr. Faisal KP
Director, AMU Centre,
Malappuram, Kerala

Speaker
Dr. Mazahar Farooqui
Principal, Maulana Azad College of Arts Science and Commerce, Aurangabad, Maharashtra

SESSION 2 : Tuesday, 16 Jan 2024

Challenges of Research Innovation in Higher Education

AMP Introduction
Mr. Aamir Edresy
President, AMP, Mumbai

Speaker
Prof. Anisur Rahman
Centre of West Asian Studies & Former Director (UGC-HRDC), Jamia Milia Islamia, New Delhi

SESSION 3 : Wednesday, 17 Jan 2024

Transforming Higher Education: Teacher's Perspective

Speaker
Prof. Mohamed Hassan Dehghan
Principal, Y B Chavan College of Pharmacy, Aurangabad, Maharashtra.

SCAN & REGISTER

SESSION 4 : Thursday, 18 Jan 2024

Holistic and Multidisciplinary Education as envisaged in NEP 2020

Speaker
Prof. Sajid Jamal
Department of Education, Aligarh Muslim University, Aligarh, UP

SESSION 5 : Friday, 19 Jan 2024

Academic Leadership Governance and Management (ALGM)

Speaker
Dr. Faiza Abbasi
Director (UGC-HRDC), Aligarh Muslim University, Aligarh, UP

SESSION 6 : Saturday, 20 Jan 2024

NEP 2020: Vocational Edu., Skill Dev., Employment & Self-Employment in HEI

Speaker
Dr. Ajay Vardhan Acharya
Regional Director (I/c), IGNOU Jodhpur Regional Centre

Vote of Thanks
Dr. S.A. Malik
Coordinator, Dept of Law, AMU Centre, Malappuram, Kerala

More details at : www.ampindia.org/upcoming_webtalks

ASSOCIATION OF MUSLIM PROFESSIONALS
STRIVING FOR PEACE AND PROGRESS

AMU CENTRE
MALAPPURAM, KERALA

MAULANA AZAD UNIVERSITY

CERTIFICATE
OF APPRECIATION

PROUDLY PRESENTED TO

Prof. Mohamed Hassan Dehghan

Principal, Y B Chavan College of Pharmacy,
Aurangabad, Maharashtra.

for being a Resource Person
for AMP's ONLINE 1-WEEK Faculty Development Program on
"National Education Policy in HEI"
from **15th January to 21st January 2024**
1 Week equivalent to 170 Hours Online active engagement,
Content based learning, with Quiz, Assignment & Feedback

the entire nation salutes your noble endeavour!

Mr. Aamir Edresy President, AMP	Dr. Faisal KP Director, AMU Center, Malappuram, Kerala	Mr. Mohammed Atique Chairperson, Maulana Azad University	Mr. Faisal Siddiqui Head (Partnerships & ICP) AMP

ASSOCIATION OF MUSLIM PROFESSIONALS
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AMU CENTRE
MALAPPURAM, KERALA

MAULANA AZAD UNIVERSITY JODHPUR
University under Section 2 (f) of the UGC Act

Certificate Of Participation

This is to certify that

Shaikh Shoaib

Y. B. Chavan College of Pharmacy

Has successfully completed AMP's ONLINE 1-WEEK Faculty Development Program on

"National Education Policy in HEI"

Organized by **Association of Muslim Professionals**

In collaboration with **Aligarh Muslim University Centre, Malappuram, Kerala & Maulana Azad University, Jodhpur Rajasthan**

from 15th to 21st January 2024

1 Week equivalent to 170 Hours Online active engagement, Content based learning, with Quiz, Assignment & Feedback

Aamir Edresy
President,
AMP

Dr. Faisal KP
Director,
AMU Center, Malappuram, Kerala

Mohammed Atique
Chairperson,
Maulana Azad University

Faisal Siddiqui
Head,
AMP Institution Connect

Ref. AMPFDP01240887

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www.rvlifesciences.com
Real Value To Life Through Science

Date: 1st March, 2024

To,

The Principal,

Y. B. Chavan College of Pharmacy Aurangabad,

Dr. Rafiq Zakaria Marg, Rauza Bagh, Aurangabad - 431001, (MS), India.

Subject- Appreciation for the successful completion of research project

References: Your project completion report dated 24 January 2024

Dear Sir,

We are grateful to your research team for the successful completion of the research project assigned to your college. The experimental data and results submitted were conclusive as per the established research protocol and within assigned time frame. We appreciate the efforts of all mentor and team members of your college and look forward for more such collaborative research in the future.

Warm Regards,

RV LIFESCIENCES LIMITED AURANGABAD

Dr. Sudheer Prabhakar Vaidya

Maulana Azad Educational Trust's
Y. B. Chavan College of Pharmacy
(B. Pharm., M. Pharm. & Research Centre)
ISO 21001:2018 & 14001:2015 | NIRF 2023 AIR 80th
NAAC ACCREDITATION "A" GRADE (CGPA SCORE 3.23)
Dr. Rafiq Zakaria Campus, Dr. Rafiq Zakaria Marg, Rauza Bagh, Aurangabad-431001 | www.ybccpa.ac.in

Activity Report

Type of Activity: "Rubicon's "Connect with Work"

Type of activity: Communication and Employability skill development program

Name of Associating Organization: Rubicon Skill Development Pvt Ltd, Pune

Resource persons: 1) Mr. Ghousuddin Khan, CEO and Founder, Brain Dynamics, Hyderabad
2) Mr. Aamir Khan, Soft Skill Trainer and NLP Coach

Date and time: 13th to 14th February, 2024; 10.00 am to 5.00pm

Target Students: B. Pharm Final year and M.Pharm students

About activity: This two days training program was organized in association with Rubicon Skill Development Pvt Ltd Pune as a part of their corporate Social Responsibility (CSR activity).

The students are trained in following area

Sr. No.	Topic	Learning Objectives
1	Expectation setting	To learn Industry expectations from fresher's
2	Resume Writing	To know how to write good Resume
3	Organizational Structure	To learn Organizational structure
4	SWOT Analysis	To identify their Strength/Weakness/Opportunities/ Threat
5	Public Speaking	To eliminate stage fear
6	Presentation Skills	To articulate your thoughts through Power point presentation
7	Grooming	Dress to impress/ Proximity/ Personal hygiene/
8	Body language	To learn positive body language
9	Group Discussion	To access candidates' public speaking skills
10	Personal Interview	To perform well during interviews

The Training sessions included Presentations, Group Discussions, Extempore talks and various skill development activities.

Outcome: The communication skills, Interview Skills, Job Skill of students are developed. The confidence level and presentation skills improved. Over all grooming of personality of students occurred.

Feedback: The analysis of feedback revealed that programme was well appreciated by the participants and suggested to arrange more such programme.

Coordinated by: Industry Institute Interaction cell

Dr. S. R. Lahoti
In-Charge
Industry Institute Interaction cell

Dr. SWAROOP R. LAHOTI
Professor and Head
Department of Pharmaceutics
Y. B. Chavan College of Pharmacy,
Aurangabad. (MS)

Y. B. CHAVAN COLLEGE OF PHARMACY AURANGABAD

Maulana Azad College of Arts, Science & Commerce

Dr. Rafiq Zakaria Campus, Rauza Baugh, Aurangabad.

Date: 07-08-2023

NOTICE

All the Staff members Teaching and Non-Teaching of Dr. Rafiq Zakaria Campus – I are hereby informed that the **"Flag Hoisting"** Ceremony of **Independence Day** on **15th August 2023** will take place near **" Mazaar "** at **8:15 a.m.** All are requested to attend the same.

(Dr. Mazahar Ahmad Farooqui)
Principal
Maulana Azad College of Arts,
Science & Commerce,
Rauza Baugh, Aurangabad.

C. C. To:-

- Brig. H.K. Kalra (Retd.), Director, Campus Administration, Dr. Rafiq Zakaria Campus, Rauza Baugh, Aurangabad.
- Principal, Marathwada College of Education, Aurangabad.
- Principal, Kamala Nehru Pol.Tech, Pharmacy, Aurangabad.
- The Principal, Y.B.Chavan College of Pharmacy, Aurangabad.
- The Principal, IHM, Aurangabad.
- I/c. Director, Dr. Rafiq Zakaria Centre for Higher Learning & Advanced Research, Aurangabad.
- Senior College Notice Board
- Junior College Notice Board
- Library Notice Board

For circulation Amongst Teaching & Non teaching staff

8/8/2023

Activity Report

1. **Title of Activity:** "Kona Kona Shiksha" a Financial Literacy Program"

2. **Date & venue:** 19th - 21st Oct 23 , APMC, YBCCP and NISM

3. **Outcomes of the activity achieved:**

   The collaborative venture enhanced conceptual understanding about finances and share Market.

4. **Description of activity:**

   The program was organized with the aim of providing information about Indian share market , various segments of investments, portfolio management , mutual fund and do's and don't's while investing in primary and secondary market.

Activity Experience:

a. Outcome wise description of observations/explanations

The interactive training session was organized literate the students in financial management.

b. The concept/principles/procedures learn as the result of activity.

The students developed confidence in share market and learnt about investments/

c. Application of observation/experience in professional life/work

The student can start investing and saving the money for their future.

d. Summary & conclusion

Theory session was conducted to explain the working of share market and make them familiar with certain financial terms. The last day of worshop was followed by demonstration of live market .

Participants included:

Students from B.Pharm VII[th] Sem and M.Pharm III[rd] sem.

E Certificate was given to all the participants by NISM

5. **Assessment of activity outcomes:**

Assessment was done through online quiz at the start and end of workshop.

Dr. Rafiq Zakaria Campus
Maulana Azad Educational Trust's
Y. B. CHAVAN COLLEGE OF PHARMACY
(B. Pharm, M. Pharm & Research Centre)
ISO 9001-2008 CERTIFIED | NIRF – 2021 ALL INDIA RANK 53rd
NAAC ACCREDITATION "A" GRADE WITH 3.23 CGPA SCORE

Activity Report

Type of Activity: Improving the employability skills and Soft Skills

Title of activity: Improving the employability skills and Soft Skills
(Rubicon's "Connect with Work" Program, supported by Barclays)

Name of Organization: Rubicon Limited Pune

Name of Trainers: Mr. Parvez Khan, Ms. Nidhi Bharuka

Designation: Lead Trainers

Date and time: Date: 4th to 5th October-2023, 10.00 am to 5.00 pm

Target Students: B. Pharm and M.Pharm students

About activity: This two days training was organized to develop the employability skills and soft skills in the students. Total 136 students of B.Pharm and M.Pharm final year were attended the training. The Trainers Mr. Parvez Khan, Ms. Nidhi Bharuka, successfully conducted sessions and covered following aspects;

Sr. No.	Topic	Learning Objectives
1	Expectation setting	To learn Industry expectations from fresher's
2	Ice breaking	To know more about the trainer & candidates
3	Organizational Structure	To learn Organizational structure
4	SWOT Analysis	To identify their Strength/Weakness/Opportunities/ Threat
5	Corporate Jargons	To learn most commonly used words in corporates
6	Public Speaking	To eliminate stage fear
7	Presentation Skills	To articulate your thoughts through Power point presentation
8	E-mail Etiquette	To learn E-mail writing skills
9	Grooming	Dress to impress/ Proximity/ Personal hygiene/
10	Body language	To learn positive body language
11	Telephone Etiquette	To handle telephonic round of interview/ To learn call mechanics
12	Group Discussion	To access candidates' public speaking skills
13	Personal Interview	To perform well during interviews

Outcome: This training program improved the employability skills and Soft Skills of the students. This also motivated the participants for better career. The students got ideas of various soft skills required for successful career.

Coordinated by: Industry Institute Interaction cell

Dr. S. R. Lahoti
In-Charge
Industry Institute Interaction cell.

Dr. SWAROOP R. LAHOTI
Professor and Head
Department of Pharmaceutics
Y. B. Chavan College of Pharmacy,
Aurangabad. (MS)

rubicon

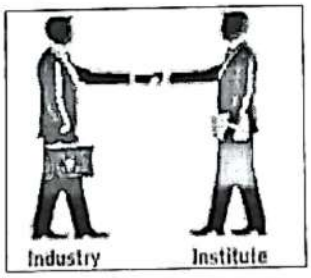
Dr. Rafiq Zakaria Campus
Maulana Azad Educational Trust
Y.B. Chavan College of Pharmacy, Aurangabad
NAAC Accreditation "A" GRADE WITH 3.23 CGPA SCORE
ISO21001:2018 and ISO14001:2015/NIRF -2023 ALL INDIA 80th

Y.B. CHAVAN COLLEGE OF PHARMACY AURANGABAD

Improving the employability skills and Soft Skills

(Rubicon's "Connect with Work" Program, supported by Barclays)

Trainers
Mr. Parvez Khan
Ms. Nidhi Bharuka



Date:
4th to 5th
October-2023

Industry Institute Interaction Cell
Y. B. Chavan College of Pharmacy, Aurangabad

Y.B. CHAVAN COLLEGE OF PHARMACY AURANGABAD

Activity Report

Type of activity: Expert talk and workshop

Title of activity: "Process of Innovation Development, Technology Readiness Level (TRL): Commercialization of Lab Technologies and Tech-Transfer"

Objective of activity: To guide the students of final year how academic research and innovative ideas can be scaled up and commercialized in compliance with TRL1 to TRL9 standards, which is also the purpose of the (NEP), and to lead students through the process.

Name of the associating organization: Shreeyash Institute of Pharmaceutical Education and research Aurangabad.

Date and time: 25/02/2023 and 11:00 AM to 12:00 PM

Duration of the activity (minutes/Hours): One Hour

Expenditure Amount if any: Nil

Target Students: B. Pharm, SEM-VIII (Final Year) (B. Division)

Star performer Faculty: NIL

Star performer Student: NIL

Program type: Workshop and Expert Talk

Program Theme: R&D and Innovation

Start date & end date: 25/02/2023

Quarter: 1 & 2 Quarter

Number of Student participants: 46

Number of external participants: NIL

Number of faculty participants: 03

About activity: Students have learned about how academic research and innovative ideas can be scaled up and commercialized in accordance with TRL1 to TRL9 standards, which is also the goal of NEP. The present activity is organized to understand how to bridge the gap between academia and industry as per the NEP. In this activity 46 students and 03 staff members have been participated and enlighten the present scenario of academic research and guided accordingly for the commercialization of their ideas and innovation through tech transfer for the benefit of society. Discussion regarding the final year project and academic research as per the TRL1 to TRL4 which is institutional research level and startup India fund scheme under the Ministry of Commerce and Industry for commercialization of academic research as per TRL5 to TRL9.

The Seminar was delivered by the following eminent resource person:

- **Dr. Milind D. Kamble**

Associate Professor and Head department of Pharmaceutics, Shreeyash Institute of Pharmaceutical Education and research Aurangabad.

Mobile No.: 9637082865

Email: milind_syiper@rediffmail.com

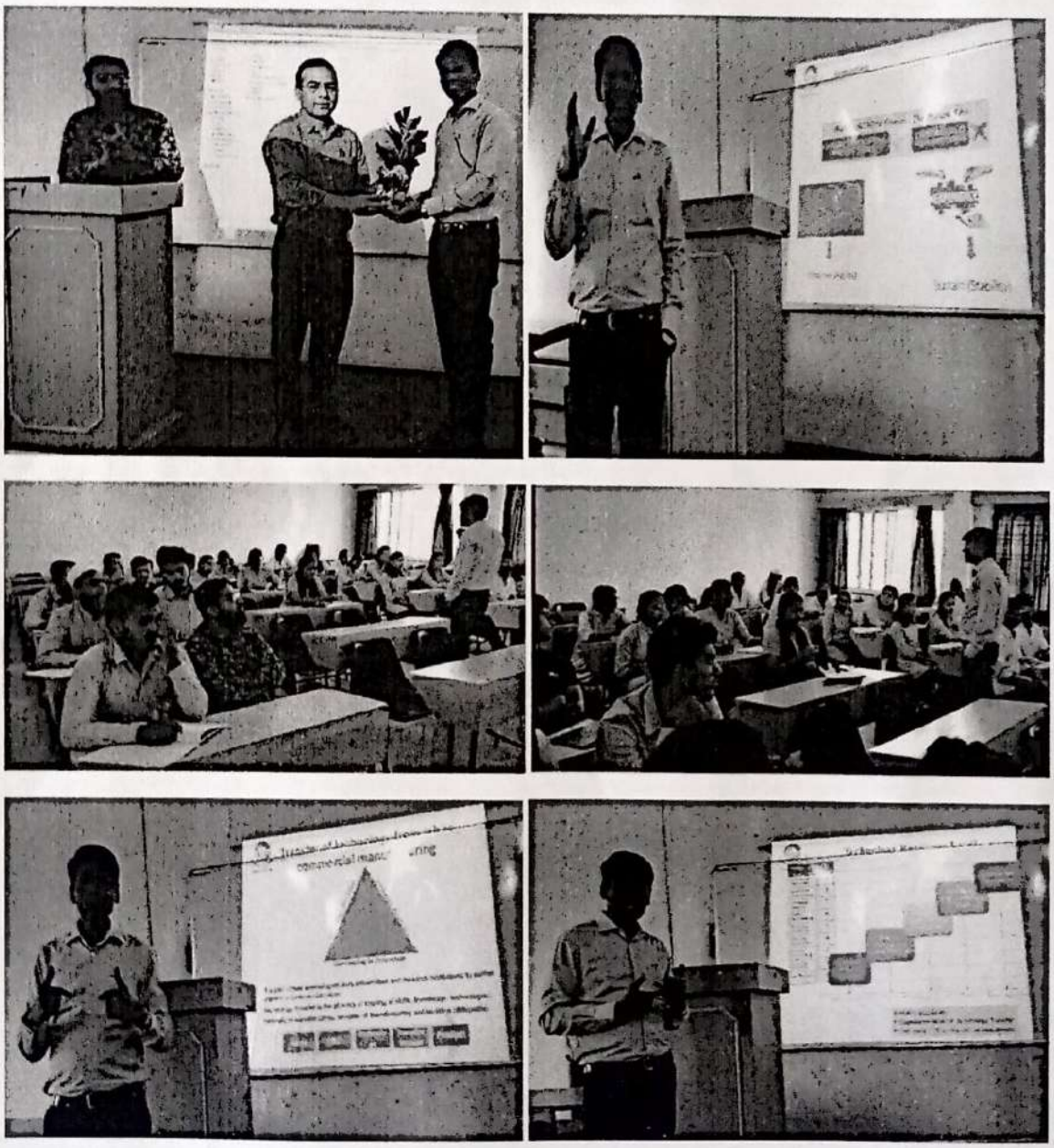
The flyer for the webinar is shown below:

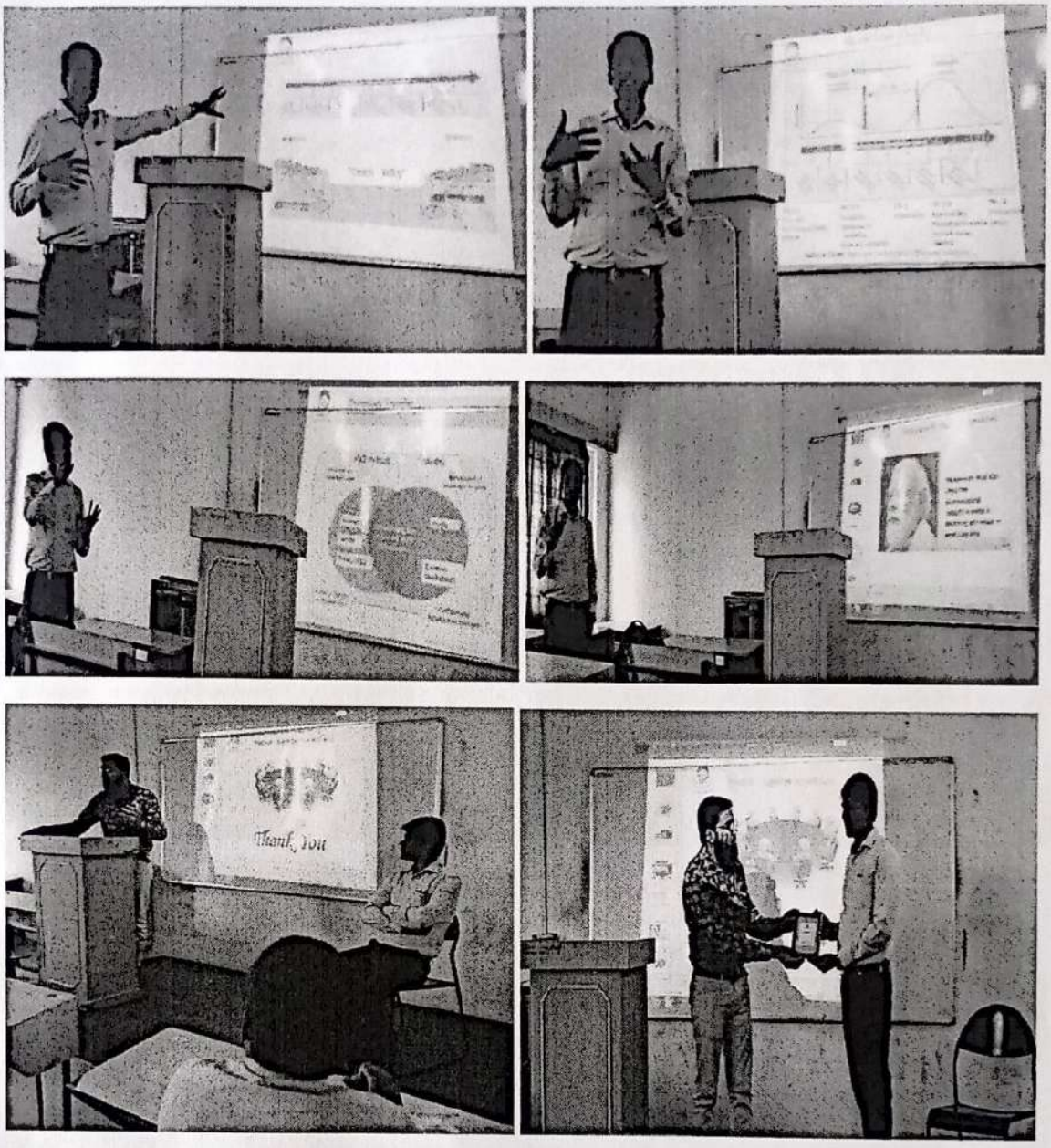
Video url uploaded on IIC YouTube channel: https://youtu.be/lW_ZeKutaos

Benefit in terms of learning/skill/knowledge obtained:

The present activity is organized to understand, how to bridge the gap between academia and industry and provide knowledge about academic research. Students were guided for commercialization of their ideas and innovation doing in final year project through tech transfer for the benefit of society.

Photographs of Event:





Signature
Dr. Shaikh Mohd Sayeed
Activity Incharge

Signature
Dr. Furquan khan
IIC Incharge

Signature
Dr. M. H. G. Dehghan
Principal & President IIC

Y.B. CHAVAN COLLEGE OF PHARMACY
AURANGABAD

Shreeyash Pratishthan's
SHREEYASH INSTITUTE OF PHARMACEUTICAL EDUCATION & RESEARCH
(D. Pharm, B. Pharm & M. Pharm)
Approved by AICTE, PCI New Delhi, Government of Maharashtra, DTE Mumbai (Institute Code : 2572) and Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere & MSBTE Mumbai.
ISO 9001:2015

Ref. : SYIPER/ADMIN/Invitation letter/2023/513

Date : 14.09.2023

To,
Dr. Swaroop Lahoti
Professor,
Y.B. Chavan College of Pharmacy, Aurangabad.

Sub: **Regarding letter of invitation as motivational speaker for Induction/ Orientation Program**

Respected Sir,

We are delighted to inform you that we are going to organize Induction/Orientation Program for the first year B. Pharmacy students of our institution. The previously mentioned event will start from 10.00 am dated 15.09.2023 and the venue of the event will be Dr. A.P.J. Abdul Kalam Seminar Hall (118) at Shreeyash College of Engineering and Technology.

We hope to encourage and motivate our new students for the better result and for their better prospectus. As per MOU signed between Shreeyash Institute of Pharmaceutical Education and Research and Y.B. Chavan College of Pharmacy, dated 24/03/2023 (Organizing Joint Conference/ Workshop/ Seminar), we are inviting you with this hope that your presence will help our students to get proper knowledge about pharmacy profession. Therefore we very much obliged if you help us to guide our students.

Hope you will consider our earnest request and obliged us.

Thank you very much.

SHREEYASH INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH ★ AURANGABAD

Dr. Ganesh Tapadiya
PRINCIPAL
Shreeyash Institute Of Pharmaceutical Education And Research, Aurangabad

Shreeyash Pratishthan's
SHREEYASH INSTITUTE OF PHARMACEUTICAL EDUCATION & RESEARCH
(D. Pharm, B. Pharm & M. Pharm)
Approved by AICTE, PCI New Delhi, Government of Maharashtra, DTE Mumbai (Institute Code : 2572) and Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere & MSBTE Mumbai.

ISO 9001:2015

Ref. : SYIPER/ADMIN/letter/2023/573

Date : 14.09.2023

To,
Dr. Swaroop Lahoti
Professor,
Y.B. Chavan College of Pharmacy, Aurangabad.

Subject: **Expressing gratitude.**

Respected Sir,

On behalf of management, faculty members and students of **Shreeyash Institute of Pharmaceutical Education and Research,** I express my deep sense of thanks towards you for being a motivational speaker for the Induction/ Orientation Program of B.Pharmacy First Year Students.

We are grateful for your valuable time and effort you took to share your experience with us.

Thanking you.

SHREEYASH INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH * AURANGABAD

Dr. Ganesh Tapadiya
PRINCIPAL
Shreeyash Institute Of Pharmaceutical Education And Research, Aurangabad

Shreeyash Campus, Gut No. 258 (P), Satara Parisar, Near SRPF Camp, Beed By Pass Road, Aurangabad - 431 010. (M.S.)
Tel. - (0240) 6608769 / 756 / 778, Fax : (0240) 6608709 Web : www.syppharmacy.org Email - shreeyashiper@gmail.com

Shreeyash Pratishthan's
SHREEYASH INSTITUTE OF PHARMACEUTICAL EDUCATION & RESEARCH
(D. Pharm, B. Pharm & M. Pharm)
Approved by AICTE, PCI New Delhi, Government of Maharashtra, DTE Mumbai (Institute Code : 2572) and
Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere & MSBTE Mumbai.

ISO 9001:2015

Ref. : SYIPER/ADMIN/Inv-letter/2022/1070

Date : 08/12/2022

Invitation Letter

To,

Dr. Swaroop Lahoti

Professor

Y.B. Chavan College of Pharmacy,

Aurangabad.

Subject:- Invitation letter as Evaluator for the Zonal level Avishkar 2022 on 10th December

Respected Sir/Madam,

With respect to above cited subject, we are keen to organize zonal level Avishkar 2022 competition at our institute on 10th December 2022 where the students from Aurangabad Ahmednagar and Jalna were participating. The timing of programme is between 10:00am to 4:00pm. So we request you to accept our invitation regarding the same . share your valuable thoughts and grace the event by your presence

Thanking you.

Dr. Ghodke Mangesh S (Zonal Coordinator)

Mrs. Rashmi Tambare

Dr. G. G. Tapadia
Principal

PRINCIPAL
Shreeyash Institute Of Pharmaceutical Education And Research, Aurangabad

Shreeyash Campus, Gut No. 258 (P), Satara Parisar, Near SRPF Camp, Beed By Pass Road, Aurangabad - 431 010. (M.S.)
Tel. - (0240) 6608769 / 756 / 778, Fax : (0240) 6608709 Web : www.syppharmacy.org Email - shreeyashiper@gmail.com

SHREEYASH PRATISHTHAN'S

Shreeyash Technical Campus

SHREEYASH COLLEGE OF ENGINEERING & TECHNOLOGY,
SHREEYASH POLYTECHNIC,
SHREEYASH INSTITUTE OF PHARMACY,
SHREEYASH INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH

Ref:- SYIPER/ADMIN/letter/2022/982

Date: 20/10/22

To,
Dr. Swaroop Lahoti
Professor and HOD
Y. B. Chavan College of Pharmacy,
Aurangabad.

Subject: Expressing gratitude.

Respected Sir,

On behalf of management, faculty members and students of Shreeyash Institute of Pharmcy, I express my deep sense of thanks towards you for delivering One Day Faculty Development Program on NAAC on the topic **"Criteria's and their Quantitative and Qualitative Metrics for Pharmacy"**. This session will definitely enhance the knowledge of our students.

We are grateful for your valuable time and effort you took to share your experience with us.

Thanking you.

SHREEYASH INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH ★ AURANGABAD

PRINCIPAL
Shreeyash Institute Of Pharmaceutical
Education And Research, Aurangabad

SHREEYASH PRATISHTHAN'S

Shreeyash Technical Campus

SHREEYASH COLLEGE OF ENGINEERING & TECHNOLOGY,
SHREEYASH POLYTECHNIC,
SHREEYASH INSTITUTE OF PHARMACY,
SHREEYASH INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH

Ref:- SYIPER/ADMIN/INV-letter/2022/977B

Date: 19/10/22

Invitation Letter

To,
Dr. Swaroop Lahoti
Professor and HOD
Y. B. Chavan College of Pharmacy,
Aurangabad.

Respected Sir,

We are pleased to introduce ourselves as a growing institute in the field of technical education and management studies. Shreeyash Technical Campus, established in the year 2008, has cast an impression in the Technical & Management Education in Marathwada region. Shreeyash Technical Campus is an ISO 9001:2008 certified institute. We are one of the leading groups of institutions of Aurangabad, offering education in the fields of **Pharmaceutical education** and have a track record of outstanding performances of its pass-outs in different spheres.

We are keen to organize **One Day Faculty Development Program: NAAC** at our organization for our Faculty of academic year 2022-2023 on topic **"Criteria's and their Quantitative and Qualitative Metrics for Pharmacy"**. In the past, we have conducted similar lectures, in which several renowned experts have shared their valuable thoughts.

We look forward to your confirmation for this lecture.

Thanking you,

SHREEYASH INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH ★ AURANGABAD

Principal
PRINCIPAL
Shreeyash Institute Of Pharmaceutical Education And Research, Aurangabad

SHREEYASH PRATISHTHAN'S

Shreeyash Technical Campus

SHREEYASH COLLEGE OF ENGINEERING & TECHNOLOGY,
SHREEYASH POLYTECHNIC,
SHREEYASH INSTITUTE OF PHARMACY,
SHREEYASH INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH

Ref:- SYIPER/ADMIN/Inv-letter/2022/974 A

Date: 19/10/22

Invitation Letter

To,
Dr. Dehghan Mohamed Hassan
Professor and IQAC Coordinator
Y. B. Chavan College of Pharmacy,
Aurangabad.

Respected Sir,

We are pleased to introduce ourselves as a growing institute in the field of technical education and management studies. Shreeyash Technical Campus, established in the year 2008, has cast an impression in the Technical & Management Education in Marathwada region. Shreeyash Technical Campus is an ISO 9001:2008 certified institute. We are one of the leading groups of institutions of Aurangabad, offering education in the fields of **Pharmaceutical education** and have a track record of outstanding performances of its pass-outs in different spheres.

We are keen to organize **One Day Faculty Development Program: NAAC** at our organization for our Faculty of academic year 2022-2023 on topic **"Role of IQAC in NAAC accreditation Process"**. In the past, we have conducted similar lectures, in which several renowned experts have shared their valuable thoughts.

We look forward to your confirmation for this lecture.

Thanking you,

SHREEYASH INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH ★ AURANGABAD

PRINCIPAL
Shreeyash Institute Of Pharmaceutical Education And Research, Aurangabad

SHREEYASH PRATISHTHAN'S

Shreeyash Technical Campus

SHREEYASH COLLEGE OF ENGINEERING & TECHNOLOGY,
SHREEYASH POLYTECHNIC,
SHREEYASH INSTITUTE OF PHARMACY,
SHREEYASH INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH

Ref:-SYIPER/ADMIN/letter/2022/984

Date: 20/10/22

To,
Dr. Dehghan Mohamed Hassan
Professor and IQAC Coordinator
Y. B. Chavan College of Pharmacy,
Aurangabad.

Subject: Expressing gratitude.

Respected Sir,

On behalf of management, faculty members and students of Shreeyash Institute of Pharmcy, I express my deep sense of thanks towards you for delivering One Day Faculty Development Program on NAAC on the topic **"Role of IQAC in NAAC accreditation Process"**. This session will definitely enhance the knowledge of our students.

We are grateful for your valuable time and effort you took to share your experience with us.

Thanking you.

SHREEYASH INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH * AURANGABAD

Principal

PRINCIPAL
Shreeyash Institute Of Pharmaceutica.
cation And Research, Aurangabad

Shreeyash Pratishthan's
SHREEYASH INSTITUTE OF PHARMACEUTICAL EDUCATION & RESEARCH
(D. Pharm, B. Pharm & M. Pharm)
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Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere & MSBTE Mumbai.

ISO 9001:2015

Ref. : SYIPER/ADMIN/letter/2022/949 Date : 29.09.2022

To
The Principal
Y.B. Chavan College of Pharmacy
Aurangabad

Subject: Request for mentorship from experts for NAAC accreditation.

Dear Sir

Our college Shreeyash Institute of Pharmaceutical Education & Research, Aurangabad, was established in 2017 and runs B. Pharm program. This year as a part of quality improvement we wish to apply for accreditation to NAAC.

Sir, Y.B. Chavan College of Pharmacy, is one of premier and pioneer institute in Marathwada region. Your institute is accredited "A" grade by NAAC with excellent NIRF ranking. Your faculty team comprises of highly experienced and expert members for NAAC accreditation process. I request you to kindly render the mentorship and guidance of following expert staff members mentioned for NAAC accreditation process of our college; we will be pleased to give TA/DA and honorarium to them for their support and guidance.

1) Dr. M.H. Dehghan
2) Dr. S.R. Lahoti
3) Dr. K.G. Baheti

Kindly accept our request and oblige, for which we will always remain thankful to you.

Thanking you.

Yours faithfully

Dr. Ganesh Tapadiya
PRINCIPAL
Shreeyash Institute Of Pharmaceutical Education And Research, Aurangabad

CC:
1) Dr. M.H.Dehghan
2) Dr. S.R.Lahoti
3) Dr. K.G.Baheti

SHREEYASH INSTITUTE OF PHARMACEUTICAL EDUCATION & RESEARCH ★ AURANGABAD

Shreeyash Campus, Gut No. 258 (P), Satara Parisar, Near SRPF Camp, Beed By Pass Road, Aurangabad - 431 010. (M.S.)
Tel. - (0240) 6608769 / 756 / 778, Fax : (0240) 6608709 Web : www.syppharmacy.org Email - shreeyashiper@gmail.com

❖ Certificate of Energy Audit ❖

This is to certify that following utility has carried out College building Energy Audit . in recognition of the organizations efforts for sustainable development.

Name of the Institute	:	Maulana Azad Educational Trust's **Y.B. Chavan College Of Pharmacy, Aurangabad**
Date of Energy Audit	:	02/11/2022
Name of Energy Auditor	:	**KEDAR KHAMITKAR** Certified by BEE (Bureau of Energy Efficiency) Ministry of Power, Govt. of India
Registration No	:	EA - 8287

Empanelled with

महाऊर्जा

महाराष्ट्र ऊर्जा विकास अभिकरण

(Govt. of Maharashtra Institution)

Reg no. MEDA/ECN/CR-14/2020-21/EA-17

Kedar C. Khamitkar Regn. No. EA-8287 Certified Energy Auditor

Kedar

Kedar Khamitkar

Energy Auditor CEA-8287

Certified by BEE,

Ministry of Power, Govt. of India

ISO 9001:2015

ISO 9001-2015 Certified

Kedar Khamitkar & Associates, Latur

Empanelled with Mahaurja, Govt of Maharashtra Institution

Certificate No : KKA/2022-23/EA/012

Issued Date : 15/11/2022

Note : Certificate is based on organisation compliance on energy audit recommendations and continual maintenance of the system & conduction of surveillance audit

Maulana Azad College of Arts, Science & Commerce
Dr. Rafiq Zakaria Campus

Post Box No. 27, Dr. Rafiq Zakaria Marg, Rauza Bagh, Aurangabad-431001 Maharashtra. (India)
Tel.: 0240-2381102, 2381668 | Web: http://mace.ac.in. | Fax: 0240-2390422 | Email: macprincipal@gmail.com

MINORITY INSTITUTE

NAAC Re Accredited Grade 'A' UGC's Status: "COLLEGE WITH POTENTIAL FOR EXCELLENCE"

Ref. No. MAC:_____/20 -20 /_____

Date :- 20-09-2022

To,
The I/c. Principal,
Y.B.Chavan College of Pharmacy,
Rauza Baugh, Aurangabad.

Subject :- Regarding Iranian Film Festival.

Sir,

With reference to the above subject, I would like to inform you that our College in collaboration with Iranian Culture House, Mumbai is going to organize Iranian Film Festival between 27th September 2022 to 29th September 2022 between 5:00 p.m. to 8:30 p.m. at Seminar Hall of our College.

Therefore I am herewith requesting you to circulate the notice among the staff and students of your college and enroll on Google Form then collect the passes from Mr. Manzoor Ahmed from Administrative Office. The Google Form link is as

https://docs.google.com/forms/d/1qJy-fArGe3zN7jUX7DqrMco2cuei2kaTs904Sh-AFL0/edit

Circulation among staff & students
20/9/22

(Dr. Mazahar Ahmad Farooqui)
Principal

Encl :- Schedule of the film festival is attached herewith.

Dr. Rafiq Zakaria Campus
Maulana Azad Educational Trust's
Y. B. CHAVAN COLLEGE OF PHARMACY
(B. Pharm, M. Pharm & Research Centre)
ISO 9001-2008 CERTIFIED | NIRF – 2021 ALL INDIA RANK 53rd
NAAC ACCREDITATION "A" GRADE WITH 3.23 CGPA SCORE

Activity Report

Type of Activity: "Career counseling of the students"

Title of activity: "Beginner to expert a journey with PharmaEducare"

Name of Organization: EducareGlobus, Nagpur, Germany, United Kingdom

Name of Contact Person: Mr. Deepak Pardhi

Designation: Chief Executive Officer (CEO)

MSC from Sunderland University in (Pharmacotherapy and Medicinal Management)

Date and time: 13/08/2022, 11.00 AM onwards

Target Students: B. Pharm and M. Pharm students

Total number of students attended: 140

About activity: This session was organized to give the information regarding various career options in pharmaceutical fields and the skills needed to work in respective fields. The resource person was having vast experience in India and abroad. He has given very excellent information on various departments of Pharmaceutical industries to work. He also explained the importance of soft skills in the career. he also explained how to develop the personality for interview and various interview skills.

Outcome: The session was very useful for students to select a good career after graduation and post graduation. . The students got ideas of various soft skills required for successful career.

Feedback: The analysis of feedback revealed that session was well appreciated by the participants.

Coordinated by: Industry Institute Interaction cell

Dr. S. R. Lahoti
In-Charge
Industry Institute Interaction cell.

Activity Report

Type of Activity: "Career counseling of the students"

Title of activity: "Career Options and Future Prospects In Pharma Field"

Name of Organization: EducareGlobus, Nagpur, Germany, United Kingdom

Name of Contact Person: Mr. Deepak Pardhi

Designation: Chief Executive Officer (CEO)

MSC from Sunderland University in (Pharmacotherapy and Medicinal Management)

Date and time: 15/01/2022, 3.00 PM onwards

Target Students: B. Pharm and M. Pharm students

Total number of students attended: 285

About activity: This webinar was organized to give the information regarding various career options in pharmaceutical fields. The resource person was having vast experience in India and abroad. He has given very excellent information on various departments of Pharmaceutical industries to work. He also explained the importance of soft skills in the career. It was conducted online on Zoom app. The delegates had given the feedback and received E-Certificate of participation.

Outcome: The discussion in webinar gives motivated the participants for better career. The students got ideas of various soft skills required for successful career.

Feedback: The analysis of feedback revealed that webinar was well appreciated by the participants.

Coordinated by: Industry Institute Interaction cell

Dr. S. R. Lahoti
In-Charge
Industry Institute Interaction cell.

Dr. SWAROOP R. LAHOTI
Professor and Head
Department of Pharmaceutics
Y B Chavan College of Pharmacy,
Chhatrapati Sambhajinagar (MS)

Maulana Azad College of Arts, Science & Commerce

Dr. Rafiq Zakaria Campus, Rauza Baugh, Aurangabad.

Date: 20-08-2021

NOTICE

All the Teaching & Non-Teaching staff members are hereby informed that on the occasion of **"University Foundation Day"** they should attend 'Flag Hoisting' Programme on **23-08-2021,** at **8:15 a.m.** at open plaza Dr. Rafiq Zakaria Campus-I, Rauza Bagh, Aurangabad.

All are requested to follow the covid-19 norms.

(Dr. Mazahar Ahmad Farooqui)
Principal

Distribution:

1. The In-Charge Principal, Marathwada College of Education, Aurangabad.
2. The In-Charge Principal, Y.B. Chavan College of Pharmacy, Aurangabad.
3. The In-Charge Director, Dr. Rafiq Zakaria Centre for Higher Learning & Advanced Research, A'bad
4. General Notice Board.
5. Senior College Notice Board.
6. Junior College Notice Board.
7. Library Notice Board

Activity Report

Type of activity: Field visit to Incubation center

Title of activity: "Field visit to Bajaj Incubation center"

Name of the associating organization: Bajaj Incubation center, Dr. Babasaheb Ambedkar Marathwada University Aurangabad, Maharashtra, India.

Date and time: 26th July 2021, 2 p.m.

Target Students: B. Pharm, M. Pharm final year students and faculty members.

About activity: The students and faculty members visited Bajaj Incubation centre Located in the Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra India. The basic objective behind this visit was to understand the concept of Incubation centres, to see the facilities provided by such centres and to know their model of operations. At present about 25 start-ups are incubated at the centre including the Sehateasy startup. About 15 students and faculty members from our college visited the Centre. The Center Manager Mr. Niwruti Manohar Gajbhare detailed about the various activities of the center.

Outcome: The field visit to Incubation centre gave the exposure of usefulness and working of an Incubation centre.

Feedback: The analysis of the feedback revealed the visit was well appreciated by the students and suggested to arrange such more in future.

Coordinated by: Institutions Innovation Cell (IIC)

Dr. Furquan khan
Convener,
Institutes Innovation Council,
Y. B. Chavan College of Pharmacy,
Rauza Bagh Aurangabad.
Maharashtra , 431001.

Mr. Yasar Kazi
Startup activity Coordinator,
Institutes Innovation Council,
Y. B. Chavan College of Pharmacy,
Rauza Bagh Aurangabad.
Maharashtra , 431001.

NAAC Reaccredited with 'A' Grade

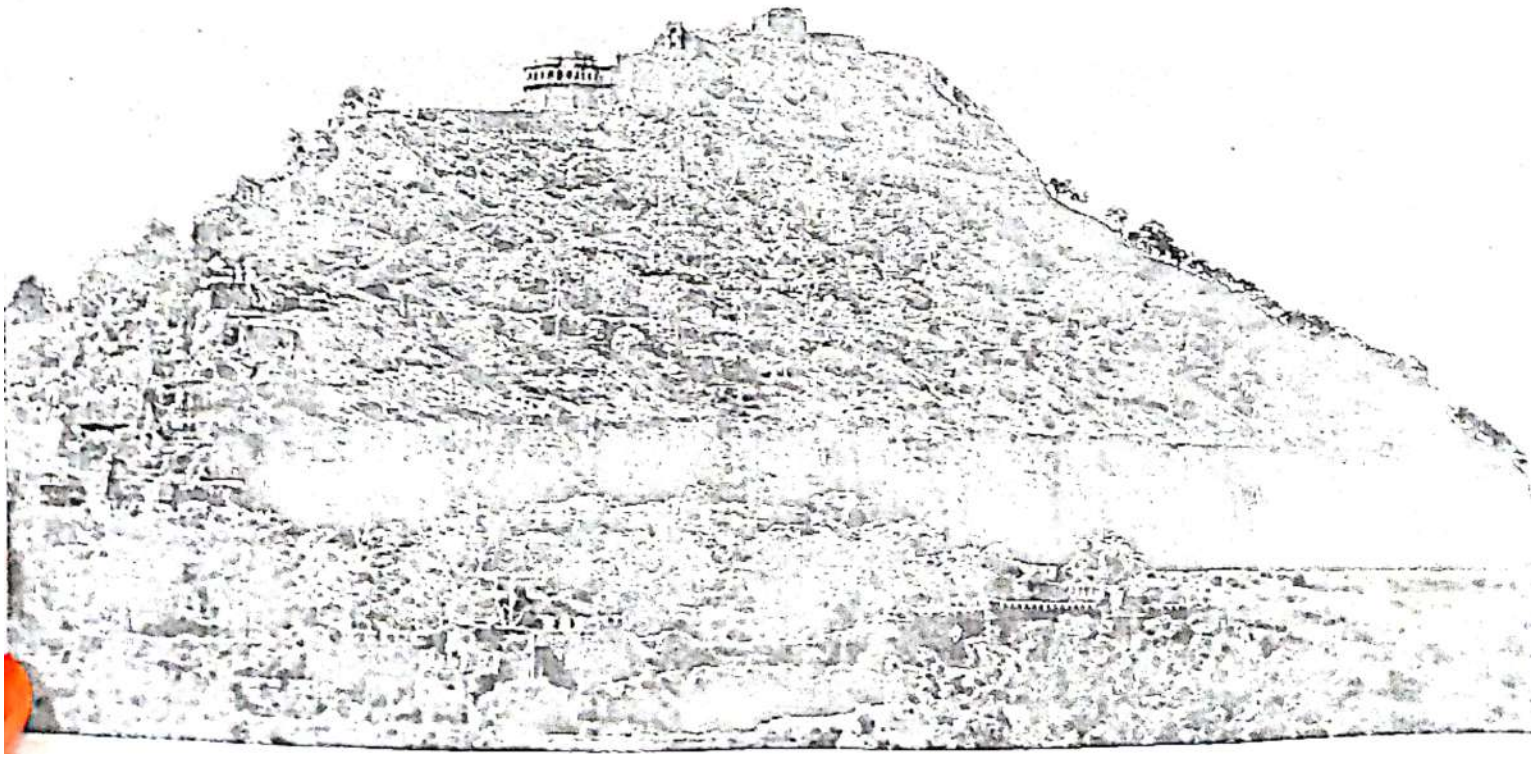
Social
RESEARCH FOUNDATION

Interdisciplinary National Conference on Development, Environment and Issues of Sustainability

(January 27th & 28th, 2020)
Aurangabad, Maharashtra, India

Organised By
Social Research Foundation, Aurangabad (M.S.), India

In Collaboration With
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad,
Maulana Azad College of Arts, Science & Commerce, Aurangabad
and
Y. B. Chavan College of Pharmacy, Aurangabad



Activity Report

Type of Activity: "Rubicon's "Connect with Work"

Type of activity: Communication and Employability skill development program

Name of Associating Organization: Rubicon Skill Development Pvt Ltd. Pune

Name of Contact Person: Ms. Soniya Pati **Designation:** PRO

Date and time: 19th to 21st November-2019, 9.30am to 5.30pm onwards

Target Students: B. Pharm Final year students

About activity: This three days training program was organized in association with Rubicon Skill Development Pvt Ltd Pune as a part of their corporate Social Responsibility (CSR activity).

The program included eminent resource person;

1) Mr. Chetan Shinde. Pune
2) Mr. V. Kalyan Kumar, Mumbai

The students are trained in following area

Sr. No.	Topic	Learning Objectives
1	Expectation setting	To learn Industry expectations from fresher's
2	Ice breaking	To know more about the trainer & candidates
3	Organizational Structure	To learn Organizational structure
4	SWOT Analysis	To identify their Strength/Weakness/Opportunities/ Threat
5	Corporate Jargons	To learn most commonly used words in corporates
6	Public Speaking	To eliminate stage fear
7	Presentation Skills	To articulate your thoughts through Power point presentation
8	E-mail Etiquette	To learn E-mail writing skills
9	Grooming	Dress to impress/ Proximity/ Personal hygiene/
10	Body language	To learn positive body language
11	Telephone Etiquette	To handle telephonic round of interview/ To learn call mechanics
12	Group Discussion	To access candidates' public speaking skills
13	Personal Interview	To perform well during interviews

The Training sessions included Presentations, Group Discussions, Extempore talks and various skill development activities.

Outcome: The communication skills, Interview Skills, Job Skill of students are deleoped. The confidence level and presentation skills improved. Over all grooming of personality of students occurred.

Feedback: The analysis of feedback revealed that programme was well appreciated by the participants and suggested to arrange more such programme.

Coordinated by: Industry Institute Interaction cell

Dr. S. R. Lahoti
In-Charge
Industry Institute Interaction cell

Dr. SWAROOP R. LAHOTI
Professor and Head
Department of Pharmaceutics
Y. B. Chavan College of Pharmacy,
Aurangabad. (MS)

Y. B. CHAVAN COLLEGE OF PHARMACY AURANGABAD

Dr. Rafiq Zakaria Campus
Maulana Azad Educational Trust's
Y.B. CHAVAN COLLEGE OF PHARMACY
(B.Pharm, M.Pharm & Research Centre)
ISO 9001 - 2008 CERTIFIED | DTE Code - 2148 | NIRF - 2019 ALL INDIA RANK 36th
NAAC ACCREDITATION "A" GRADE WITH 3.23 CGPA SCORE

Ref. No.: YBCCP/IIIC/2019-20/197

24th August-2019

To,
Mr. Rajendra Pawar,
HR Department,
M/s Adora Products Pvt. Ltd.,
MIDC, Waluj, Aurangabad.

Subject: Letter of Appreciation

Dear Sir,

I am thankful to you for permitting the students of B. Pharm of our college for industrial visit on 24th August-2019 at your esteemed manufacturing facility at M.I.D.C. Waluj. This industrial visit had given the students exposure to industrial working which will be help full to them in future.

Thanking you

Yours sincerely,

Dr. Zahid Zaheer
Principal
PRINCIPAL
Y.B.Chavan College Of Pharmacy
Aurangabad

ADORA PRODUCTS PVT. LTD. H 23/1/6, MIDC WALUJ AURANGABAD

Dr.Rafiq Zakaria Campus, Dr.Rafiq Zakaria Marg, Rauza Bagh,
Aurangabad 431001 (M.S) India. Phone: (0240) 238 1129, 238 1307
Fax: (0240) 238 1129 E-mail : ybccpa@gmail.com | Website : www.ybccpa.ac.in

Y.B. CHAVAN COLLEGE OF PHARMACY AURANGABAD

Dr. Rafiq Zakaria Campus

Maulana Azad Educational Trust's

Y.B. CHAVAN COLLEGE OF PHARMACY

(B.Pharm, M.Pharm & Research Centre)

ISO 9001 - 2008 CERTIFIED | DTE Code - 2148 | NIRF - 2019 ALL INDIA RANK 36th

NAAC ACCREDITATION "A" GRADE WITH 3.23 CGPA SCORE

YBCCPA/IIIC/2019-20/187 .

Date: 16/08/2019

To,
Mr. Rajendra Pawar
HR Department,
M/s Adora Products Pvt. Ltd.,
MIDC Waluj, Aurangabad.

Subject: Request for Industrial visit to your plant.

Reference: Your discussions with Dr. S. R. Lahoti on 16/08/2019.

Dear Sir

Y.B. College of Pharmacy, Aurangabad is a centrally located premier Pharmaceutical education and research institute established in 1989 and conducting B. Pharm and M. Pharm programs .The College is having NAAC- "A" grade with NIRF-2018 all India 34th ranking by MHRD.

To make our students conversant with working of industry and to give them practical knowledge we wish arrange industrial visit of B. Pharm V semester students (approx 60) to your esteemed organization on **24/08/2019 at 10.30 am.**

In this regard I request you to kindly accord the permission for industrial visit of B.Pharm students with two faculty members. I assure you that students will maintain discipline and follow all the rule of your organization during the visit.

The industrial visit will be coordinated by **Dr. S. R. Lahoti,** Professor and In-charge of Industry Institute Interaction Cell of our college. (Contact: 9823371119).

We will highly appreciate if you kindly permit and convey a suitable date for the same.

Thanking you.

Yours sincerely,

Dr. Zahida Zaheer
Principal
PRINCIPAL
Y.B.Chavan College Of Pharmacy
Aurangabad

24/08/2019
ADORA PRODUCTS PVT. LTD.
H 23/1/6, MIDC WALUJ
AURANGABAD

Dr.Rafiq Zakaria Campus, Dr.Rafiq Zakaria Marg, Rauza Bagh, Aurangabad 431001 (M.S) India. Phone: (0240) 238 1129, 238 1307
Fax: (0240) 238 1129 E-mail : ybccpa@gmail.com | Website : www.ybccpa.ac.in

Dr. Rafiq Zakaria Campus
Maulana Azad Educational Trust's
Y.B. CHAVAN COLLEGE OF PHARMACY
(B.Pharm, M.Pharm & Research Centre)
ISO 9001 - 2008 CERTIFIED | DTE Code - 2148 | NIRF - 2018 ALL INDIA RANK 34th
NAAC ACCREDITATION "A" GRADE WITH 3.23 CGPA SCORE

Activity Report

Type of Activity: One-Day Seminar and Poster Presentation Competition

Title of Activity: One-Day Seminar and Poster Presentation Competition On

"Pharmaceutical Product Development: an Industrial Perspective"

Name of Associating Organization: Evonik India Pvt. Ltd., Mumbai

Name of Contact Person: Mr. Hitesh Patel

Designation: Area Business Manager

Date and time: 01/11/2018; 9.00am onwards

Target Students: Post graduate, Ph.D research students, Academicians and Industry persons

About activity: This One-Day Seminar and Poster Presentation Competition On "Pharmaceutical Product Development: an Industrial Perspective" was organized in association with Evonik India Pvt. Ltd., Mumbai. The program included following deliberation of the eminent resource person form the industries;

1) Inaugural Address by Chief Guest :
   Cdr. Shri Anilji Save, Managing Director
   M/s Atra Pharmaceuticals Pvt Limited. Aurangabad.

2) **Dr. Deep Chandra Upadhyay**
   General Manager & Site Head – Quality , Glenmark Pharmaceuticals Limited
   Topic: "Technology transfer from R&D to manufacturing site"

3) Plenary lecture
   Mr. Shubham Gupta
   Topic: Evonik Health Care Product Portfolio
   S. Zhaveri Pharmakem Pvt. Ltd. Mumbai

4) Plenary lecture
   Mr. Ashish Dubey,
   S. Zhaveri Pharmakem Pvt. Ltd. Mumbai
   Topic: EUDRAGIT® – Versatile polymer for product development

Plenary session was followed by poster presentation competition by budding researchers. Total 38 research posters were presented. About 153 delegates attended the seminar from various Colleges, Industries and research organizations. Mr. Nitin Tour and Mr. Mahesh Bharti were the judge for the poster presentation competition. The winners of the competitions were,

First: Miss. Syeda Farheen Fatema, R. B. T. College of Pharmacy, Aurangabad. (Cash prize 2500/- Certificate and memento)

Second: Mr. Mudassar Ahemad Khan, School of Pharmacy, SRTMU, Nanded (Cash prize 1500/- Certificate and memento)

Third: Miss Madhura A Dapkerkar, Dr. D. Y. Patil Institute of Pharmaceutical Sciences, Pune (Cash prize 1000/, Certificate and memento)

The students interacted with the resource person. The feedback was collected at the end of programme.

Outcome: The students detail information on various listed topics and also the budding researchers got the platform to publish their research work.

Feedback: The analysis of feedback revealed the programme was well appreciated by the delegates and suggested to arrange more such programme.

Coordinated by: Industry Institute Interaction cell

Dr. S. R. Lahoti
In-Charge
Industry Institute Interaction cell
(Organizing Secretary)

Dr. S. R. LAHOTI
Professor
Y. B. Chavan College of Pharmacy
Aurangabad

Y.B. CHAVAN COLLEGE OF PHARMACY AURANGABAD

LUPIN LIMITED
(Research Park)
A-28/1, MIDC Chikalthana
Aurangabad - 431 210
Maharashtra
Tel: +91 - 240 - 6612405

LUPIN

Date: 19/10/2019

To,

Dr. Furquan Khan
Assistant Professor,
Y.B. Chavan College of Pharmacy
Dr. Rafique Zakaria Campus, Rauza Bagh, Aurangabad.

Subject: Sugar coating trials on R & D coater of Y.B. Chavan College of Pharmacy, Aurangabad

Dear Dr. Furquan,

We would request you to allow us to use your consulting services for sugar coating trials on R & D Coater which is available at your institute. The said trials, will solely be used for research and development purpose and does not carry any commercial value.

To summon up, we would request you to allow us to relocate R&D tablet coater (along with coating pan and peristaltic pump) to our facility and the same would be returned after trials execution to your institute. We shall avail said services for a period of 2 months (from 19/10/ 2019 to 18 /12/ 2019). Please provide the quotation for the same.

Looking forward for your support.

Regards,

19/10/2019

Mr. Shailesh Bhamare,
Director,
Pharma Research,
Lupin Research Park,
Lupin Limited, Aurangabad

IV. Activities of International linkages

(Research Publications,Patent, and Book Chapters)

Targeted Delivery of siRNA Therapeutics using Ligand Mediated Biodegradable Polymeric Nanocarriers

Authors: Hong, Seo-Jin; Cho, Kye-Soo; Ahn, Min-Hye; Pal, Sukdeb; Choung, Pill-Hoon; Sangshetti, Jaiprakash; Arote, Rohidas B.

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Publisher: Bentham Science Publishers
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Background: Cancer poses a major public health issue, is linked with high mortality rates across the world, and shows a strong interplay between genetic and environmental factors. To date, common therapeutics, including chemotherapy, immunotherapy, and radiotherapy, have made significant contributions to cancer treatment, although diverse obstacles for achieving the permanent "magic bullet" cure have remained. Recently, various anticancer therapeutic agents designed to overcome the limitations of these conventional cancer treatments have received considerable attention. One of these promising and novel agents is the siRNA delivery system; however, poor cellular uptake and altered siRNA stability in physiological environments have limited its use in clinical trials. Therefore, developing the ideal siRNA delivery system with low cytotoxicity, improved siRNA stability in the body's circulation, and prevention of its rapid clearance from bodily fluids, is rapidly emerging as an innovative therapeutic strategy to combat cancer. Moreover, active targeting using ligand moieties which bind to over-expressed receptors on the surface of cancer cells would enhance the therapeutic efficiency of siRNA.

Conclusion: In this review, we provide 1) an overview of the non-viral carrier associated with siRNA delivery for cancer treatment, and 2) a description of the five major cancer-targeting ligands.

Keywords: RNA interference (RNAi); cancer therapy; chemotherapy; immunotherapy; ligand; nanocarrier
Document Type: Review Article
Publication date: May 1, 2018

This article was made available online on August 16, 2018 as a Fast Track article with title: "Targeted Delivery of siRNA Therapeutics using Ligand Mediated Biodegradable Polymeric Nanocarriers".

ChemPubSoc Europe

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Chemistry SELECT Full Papers

Medicinal Chemistry & Drug Discovery

Identification of Promising Biofilm Inhibitory and Cytotoxic Quinazolin-4-one Derivatives: Synthesis, Evaluation, Molecular Docking and ADMET Studies

Siddique A. Ansari,*[a] Satish U. Deshmukh,[b] Rajesh B. Patil,[c] Manoj G. Damale,[d] Rajendra H. Patil,[e] Hamad M. Alkahtani,[a] Abdulrahman A. Almehizia,[a] Hanaa M. Al-Tuwajiri,[a] Fadilah S. Aleanizy,[f] Fulwah Y. Alqahtani,[f] Shahebaaz K. Pathan,[g] and Jaiprakash N. Sangshetti*[g]

A library of 2,3-dihydroquinazolin-4(1*H*)-one derivatives (**5a-k**) were synthesized in good yield by using 1-Ethyl-3-Methylimidazolium hydrogen sulphate (10 mol%) as a catalyst and were evaluated for their anti-biofilm, antimicrobial and cytotoxicity potential. Among the synthesized compounds, 2-(4-(1H-1,2,4-triazol-1-yl)phenyl)-2,3-dihydroquinazolin-4(1H)-one (**5d**) and 2,3-dihydro-2-(2,4,6-trimethoxyphenyl) quinazolin-4(1H)-one (**5j**) displayed better anti-biofilm activity than fluconazole (IC_{50} = 40 μM) with IC_{50} values less than 30 μM. Compound **5d** also appeared to be fungicidal against *C. Albicans* having MIC = 33.5 μg/ml comparable with standard fluconazole (50 μg/ml). All the synthesized compounds were also evaluated for cytotoxic activity by using MTT assay against HeLa, A-549 and MDA-MB-231 cell lines. The compound **5d** was found to be more potent against MDA-MB-231 and A549 cell lines (IC_{50} = 11 ± 2 μM and 34 ± 8 μM respectively) than 5-fluorouracil (IC_{50} = 19 ± 3 μM and 51 ± 5 μM respectively). The compounds substituted with 6-methyl-4-oxo-4H-chromen-3-yl (**5a**), biphenyl (**5c**) and 2-hydroxy-5-bromophenyl (**5e**) were also found to be more potent against MDA-MB-231 cell lines (IC_{50} = 13 ± 3 – 14 ± 4 μM) than 5-fluorouracil. Molecular docking simulations were also carried out using secreted aspartyl protease (SAP5), pepA enzyme of *C. albicans* for biofilm inhibition and EGFR tyrosine kinase for cyto-toxicity studies. The study reveals that the compounds **5d and 5e** can serve as an important lead moiety for biofilm inhibition and cyto-toxicity against MDA-MB-231 and A549 cancer cell-lines indicating their potential in the treatment of tougher fungal infections and breast and lung cancer.

Introduction

Currently, the treatment of microbial infection suffers a major disadvantage due to continuous emergence of multi-drug

ChemPubSoc Europe

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Medicinal Chemistry & Drug Discovery

Synthesis of Novel α-Aminophosphonate Derivatives, Biological Evaluation as Potent Antiproliferative Agents and Molecular Docking

Satish U. Deshmukh,[a] Kiran R. Kharat,*[b] Ashok R. Yadav,[c] Suresh U. Shisodia,[c] Manoj G. Damale,[d] Jaiprakash N. Sangshetti,[e] and Rajendra P. Pawar*[a]

A series of novel fluorine containing α-aminophosphonate derivatives (4a–4q) were synthesized in excellent yield and high purity. All these novel Fluorinated α-aminophosphonate compounds were screened for antiproliferative and apoptosis activity on human non small cell lung carcinoma cells (A549) and human skin melanoma cells (SK-MEL-2). Compounds 4a, 4b, 4c, 4f, 4i, 4j and 4m were found to be more active antiproliferative agent against A549 and SK-MEL-2 cells with IC_{50} value 0.22 to 1.25 μM. Molecular docking study related to binding affinity and binding mode analysis showed that synthesized compounds had potential to inhibit human Top-isomerase IIa enzyme system. Flow cytometric study showed some of these derivatives also induced cell apoptosis and arrest cell cycle at G1 and at G_2/M phase. Overall, this study provides future perspective of lead candidate for the future anticancer drug discovery initiatives.

Introduction

Cancer is second leading cause of mortality worldwide,[1] in last two decades this disease has been the main cause of the death. WHO reports approximately 14 million new cancer cases were found, among which 8.8 million cancer patients died and 32.6 million people are affected from disease in 2012. The number is expected to rise up to 14 million to 22 million in the year 2030.[2,3] Aminophosphonates, known as phosphorus analogues of amino acids, have received much more attention due to diverse applications in medicine. They play a vital role in antibody generation.[4] Recently, α-amino phosphonates are proved to posses potent biological activities, such as selective inhibitors of tyrosine kinase,[5] cytotoxic to cancer cells,[6,7] antibacterial,[8] antifungal,[9] antitumor and antiproliferative agents,[10–14] enzyme inhibitors,[15,16] antiviral,[17] and plant growth regulators.[18]

Fluorinated α-amino acids and their derivatives such as α-(fluoromethyl)-substituted α-amino acids have employed as selective inhibitor of pyridoxal phosphate dependent enzymes. The probe of fluorine containing aromatic and aliphatic compounds exhibit a significant medicinal value in pharmaceutical industries.[19–21] An incorporation of $-CF_3$ group at α-position of a cyclic α-amino acid enhances the biological properties of peptides.[22] Due to wide medicinal applications of fluorinated α-aminophosphonates compounds they show significant biological activity and two major review focus on fluorinated α-aminophosphonates compound.[23,24] Several methods are reported for the synthesis of α-aminophosphonates. More commonly used methods include hydrophosphonylation of pregenerated imines or *in situ* generated imines by nucleophilic addition to phosphonate ester in various catalysis such as $InCl_3$,[25] $TaCl_5$-SiO_2,[26] $Mg(ClO_4)_2$,[27] $LiClO_4$,[28–30] $AlCl_3$,[31] lanthanide triflates,[32] montmorillonite clay-MW,[33] CF_3COOH,[34] sulfamic acid,[35] BF_3-Et_2O,[36] $ZrOCl_2$,[37] TiO_2,[38] $LaCl_3$,[39] ethyl ammonium nitrate,[40] and $Cd(ClO_4)_2$.[41] Recently, reported used solvate ionic liquids $[G_4(Li)]TFSI$.[42] To overcome the problems of longer reaction time, use of toxic metal catalysts and tedious workup, a new method has been developed for the synthesis of α-aminophosphonates.

Herein, report an efficient method for the synthesis of novel bis-CF_3-containing α-aminophosphonates using lanthanum chloride as a catalyst *via* solvent free condensation of substituted aromatics aldehyde, amine and diethyl phosphite (Scheme-1). Furthermore, these α-aminophosphonate derivatives were screened for antiproliferative activity on human cancer cell lines (SK-MEL-2 and A549 cells).

These compounds were found active against Human non small cell lung carcinoma cells (A549 cell) and Human skin

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Efficient siRNA delivery using osmotically active and biodegradable poly(ester amine)

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Abstract

Biodegradable and hyperbranched poly(ester amine) (PEA) was prepared by reaction of glycerol dimethacrylate (GDM) with low molecular weight polyethylenimine (LMW-PEI) by Michael addition reaction. This novel gene carrier showed excellent physicochemical properties and relatively low cytotoxicity compared with PEI 25K. It showed excellent transfection efficiency and siRNA delivery. The higher silencing efficiency of PEAs could be attributed to the synergistic effect arising from hyperosmotic glycerol and proton sponge active PEI residues in the PEA backbone.

Keywords: Poly (ester amine), hyperosmotic effect, proton sponge effect, siRNA delivery.

Introduction

Enormous research is being performed to better understand the mechanism of RNA interference (RNAi) in mammalian cells, making *in vivo* therapeutic applications of RNAi increasingly likely to emerge soon. However, systemic application of virally delivered siRNA duplexes and related RNAi products are unlikely to be viable in the near future, due to host immune responses upon repeated delivery and approach for the development of RNAi therapeutics. With the current formulation and delivery approaches for siRNA, polymeric carriers have immense capability and therapeutic potential. Despite much recent progress, new chemistry and delivery approaches are greatly needed to systemically silence disease-causing genes in a tissue specific manner with high efficiencies and at clinically achievable [14]. To date, various cationic polymers showed their potential as a successful gene carrier owing to their versatility in chemical structure

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Molecular docking, pharmacophore based virtual screening and molecular dynamics studies towards the identification of potential leads for the management of *H. pylori*†

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The enzyme pantothenate synthetase panC is one of the potential new antimicrobial drug targets, but it is poorly characterized in *H. pylori*. *H. pylori* infection can cause gastric cancer and the management of *H. pylori* infection is crucial in various gastric ulcers and gastric cancer. The current study describes the use of innovative drug discovery and design approaches like comparative metabolic pathway analysis (Metacyc), exploration of database of essential genes (DEG), homology modelling, pharmacophore based virtual screening, ADMET studies and molecular dynamics simulations in identifying potential lead compounds for the *H. pylori* specific panC. The top ranked virtual hits **STOCK1N-60270**, **STOCK1N-63040**, **STOCK1N-44424** and **STOCK1N-63231** can act as templates for synthesis of new *H. pylori* inhibitors and they hold a promise in the management of gastric cancers caused by *H. pylori*.

1 Introduction

The *Helicobacter pylori* infection in the patients with chronic gastritis and peptic ulcer can become the primary cause of gastric cancer.[1–4] Gastric cancer is the fourth common malignancy worldwide causing over 700 000 deaths per year. *H. pylori* is a microaerophilic, spiral-shaped Gram-negative bacterium which colonizes in the human stomach eventually causing duodenal and gastric ulcers. Broad spectrum antibacterials and antibiotics such as metronidazole, clarithromycin, levofloxacin, amoxicillin, tetracycline, furazolidone, and rifabutin are used in the treatment and management of *H. pylori* infection. Unfortunately, the efficacy of these antibiotics against *H. pylori* has weakened due to a strong resistance developed by *H. pylori* organism.[5–7] Furthermore, many factors such as the strain of *H. pylori*, the host genetic factor like polymorphism in the interleukin-1, gender, and individual's habits like smoking and their diet may aggravate the *H. pylori* infection. It is established that the colonization of the *H. pylori* with the nitro sating bacteria in the achlorhydric stomach becomes the primary cause of gastric cancer.[4] Therefore, eradication of the *H. pylori* infection and proper management and treatment of the duodenal and gastric ulcers is essential in the prevention of ensuing gastric cancer. Emergence of strong resistance is the main concern with most of the currently used broad spectrum antibacterials and antibiotics in *H. pylori* infection. Hence, design and development of the newer potential drug candidates effective against the newer targets specific for *H. pylori* may be advantageous. The enzyme pantothenate synthetase, encoded by the panC gene, catalyzes the biosynthesis of pantothenate (vitamin B5) from an adenosine triphosphate (ATP)-dependent condensation of the D-pantoate and the β-alanine in bacteria.[8] The pantothenate is a key precursor of the coenzyme A and the acyl carrier protein. Many intracellular processes such as fatty acid metabolism, cell signaling, synthesis of the polypeptides and the non-ribosomal peptides are regulated by the coenzyme A and the acyl carrier protein. Interestingly, mammals lack the pantothenate synthetase and its biosynthetic pathway and

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Review article

Synthesis and biological activity of structurally diverse phthalazine derivatives: A systematic review

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ABSTRACT

Phthalazine, a structurally and pharmacologically versatile nitrogen-containing heterocycle, has gained more attention from medicinal chemists in the design and synthesis of novel drugs owing to its pharmacological potential. In particular, phthalazine scaffold appeared as a pharmacophoric feature numerous drugs exhibiting pharmacological activities, in particular, antidiabetic, anticancer, antihypertensive, antithrombotic, anti-inflammatory, analgesic, antidepressant and antimicrobial activities. This review presents a summary of updated and detailed information on phthalazine as illustrated in both patented and non-patented literature. The reported literature have described the optimal pharmacological characteristics of phthalazine derivatives and highlighted the applicability of phthalazine, as potent scaffold in drug discovery.

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Review article

Sugar alcohol-based polymeric gene carriers: Synthesis, properties and gene therapy applications

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ABSTRACT

Advances in the field of nanomedicine have led to the development of various gene carriers with desirable cellular responses. However, unfavorable stability and physicochemical properties have hindered their applications *in vivo*. Therefore, multifunctional, smart nanocarriers with unique properties to overcome such drawbacks are needed. Among them, sugar alcohol-based nanoparticle with abundant surface chemistry, numerous hydroxyl groups, acceptable biocompatibility and biodegradable property are considered as the recent additions to the growing list of non-viral vectors. In this review, we present some of the major advances in our laboratory in developing sugar-based polymers as non-viral gene delivery vectors to treat various diseases. We also discuss some of the open questions in this field.

Statement of Significance: Recently, the development of sugar alcohol-based polymers conjugated with polyethylenimine (PEI) has attracted tremendous interest as gene delivery vectors. First, the natural backbone of polymers with their numerous hydroxyl groups display a wide range of hyperosmotic properties and can thereby enhance the cellular uptake of genetic materials via receptor-mediated endocytosis. Second, conjugation of a PEI backbone with sugar alcohols via Michael addition contributes to buffering capacity and thereby the proton sponge effect. Last, sugar alcohol based gene delivery systems improves

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ORIGINAL RESEARCH

Identification of dual site inhibitors of tankyrase through virtual screening of protein-ligand interaction fingerprint (PLIF)–derived pharmacophore models, molecular dynamics, and ADMET studies

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Abstract

Tankyrases are the group of poly (ADP-ribosyl) polymerases (PARPs) which are the attractive targets in various therapeutic areas such as cancer, antiviral, diabetes, and hormonal imbalance. The selective nature of tankyrase 1 and 2 inhibitors has created solid base to get dual site binders as they bind to induced adenosine binding site and nicotinamide binding site resulting in dual site inhibition. The present work describes the cheminformatics approach to find potential lead molecules as tankyrases dual site inhibitors through pharmacophore model by utilizing protein-ligand interaction fingerprints (PLIF) approach. The constructed pharmacophore model was used in virtually screening of ZINC and Interbioscreen database. Top ten hit molecules of virtual screening were subjected to molecular docking in order gain insights of key interactions at the adenosine and nicotinamide binding sites. The top hits were subjected to molecular dynamics simulation studies to gain deeper insights into probable mechanism of inhibition and stability of the complex. The top hit **ZINC12973507** showed all the features required in key interactions at the active site of tankyrases and this hit molecule can be further explored as a potential drug candidate for dual site inhibition of tankyrases.

Keywords Tankyrase · Protein-ligand interaction fingerprints (PLIF) approach · Pharmacophore · Virtual screening · Molecular docking · Molecular dynamics

Introduction

Poly (ADP-ribose) polymerases (PARPs) are family of around eighteen proteins mainly involved in DNA repair [1]. The damage to DNA strands invokes the catalytic activity of two domains of PARP namely PARP-1 and PARP-2. PARPs utilize NAD^+ as a substrate to generate ADP-ribose polymer. Such ADP-ribosylation is an important event during the post translational modification of residues such as aspartate, glutamate, asparagine, arginine, lysine, cysteine, phosphoserine, and diphthamide of signaling proteins. The PARP5 also named as ADP-ribosyltransferase (ARTD) has wide-ranging roles in cellular processes such as DNA repair, metabolism, gene transcription, Wnt signaling, telomerase maintenance, mitosis, vesicle translocation, proteosomal activity, viral replication, lung fibrogenesis, and myelination. PARP5 is present in two isoforms PARP-5a (ARTD5) and PARP-5b (ARTD6). These two isoforms are now referred as tankyrase1 (TNKS1)

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REVIEW

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SGLT inhibitors as antidiabetic agents: a comprehensive review

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Diabetes is one of the most common disorders that substantially contributes to an increase in global health burden. As a metabolic disorder, diabetes is associated with various medical conditions and diseases such as obesity, hypertension, cardiovascular diseases, and atherosclerosis. In this review, we cover the scientific studies on sodium/glucose cotransporter (SGLT) inhibitors published during the last decade. Our focus on providing an exhaustive overview of SGLT inhibitors enabled us to present their chemical classification for the first time.

1. Introduction

Diabetes mellitus (DM) is a common disorder associated with metabolic dysfunction that affects people all around the world. In 2011, the estimated prevalence of DM was 366 million cases, which are predicted to increase to approximately 552 million by 2030.[1] The growing pervasiveness of diabetes has been linked to an increasing global health burden over the last several decades.[2] DM is often linked to various other chronic conditions and disorders such as obesity, hypertension, cardiovascular diseases or atherosclerosis, resulting in a significant decrease in life expectancy. It also increases the associated

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Development of novel, biocompatible, polyester amines for microglia-targeting gene delivery†

Boomin Choi,‡[a] Min-Hye Ahn,‡[b] Seojin Hong,[b] Ellane Eda Barcelon,[a] Jaiprakash Sangshetti,[c] Rohidas B. Arote*[b] and Sung Joong Lee*[a]

Recent progress in personalized medicine and gene delivery has created exciting opportunities in therapeutics for central nervous system (CNS) disorders. Despite the interest in gene-based therapies, successful delivery of nucleic acids for treatment of CNS disorders faces major challenges. Here we report the facile synthesis of a novel, biodegradable, microglia-targeting polyester amine (PEA) carrier based on hydrophilic triethylene glycol dimethacrylate (TG) and low-molecular weight polyethylenimine (LMW-PEI). This nanocarrier, TG-branched PEI (TGP), successfully condensed double-stranded DNA into a size smaller than 200 nm. TGP nanoplexes were nontoxic in primary mixed glial cells and showed elevated transfection efficiency compared with PEI-25K and lipofector-EZ. After intrathecal and intracranial administration, PEA nanoplexes delivered genes specifically to microglia in the spinal cord and brain, respectively, proposing TGP as a novel microglia-specific gene delivery nanocarrier. The microglia-specific targeting of the TGP nanocarrier offers a new therapeutic strategy to modulate CNS disorders involving aberrant microglia activation while minimizing off-target side effects.

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Introduction

Microglia are innate immune cells of the central nervous system (CNS) and play pivotal roles in CNS physiology and pathophysiology.[1] During neurodegeneration and natural brain aging, microglia lose their homeostatic cellular properties, show aberrant activation such as increased production of pro-inflammatory cytokines, and contribute to the pathogenesis of these neurodegenerative diseases.[2] In neuropathic pain animal models, microglial activation and subsequent pro-inflammatory gene expression in the spinal cord elicit central pain sensitization to induce chronic pain.[3–10] All these studies point to the critical role of microglia in CNS disease and propose microglia as a prime therapeutic target for these CNS disorders.

Benzopyranyl Phosphonate and β-Phosphono Malonates Derivatives: An Exciting Breakthrough in Chemistry

Satish U. Deshmukh,[a, d] Jaiprakash N. Sangshetti,[b] Sidhanath V. Bhosale,[c] and Rajendra P. Pawar*[a]

In this review, we paid attention to the reported methods and recent advances in the development of 2-amino-3-cyano-4*H*-chromen-4-yl-phosphonates and functionalized β-phosphonomalonates heterocyclic compound. Small-molecular architectures are considered with the highlighting on their structural design and synthesis approach. The scope of the 2-amino-3-cyano-4*H*-chromen-4-yl-phosphonates and functionalized β-phosphonomalonates heterocyclic compound *via* reactions like Knoevenagel, Pinner-cyclisation and advanced phospha-Michael addition reactions using different catalyst for synthesis is listed up to 2020.

1. Introduction

Multicomponent Reactions (MCR) are the reactions containing three or more constituents that come together and result in a final product that includes all elements used as initial material in their scaffold. In recent years, a multicomponent reaction is the centre of researcher's attention due to their variety and represents a powerful tool in chemistry and efficient drug discovery processes.[1] This remarkable attention of MCR is striking when quickly increasing the molecular complexity. MCR plays a vital role for synthetic chemistry mostly in the construction of heterocyclic compounds. These heterocyclic compounds engage in chemistry as MCR symbolic for their flexibility.[2]

Convergent nature of multicomponent reactions is the general waste reduction process. Taking to in consideration the advantages in research work, a synthetic pathway of MCR is constantly utilized. It includes resources in an efficient action in the synthesis, but also staged on shortening of the complete synthetic pathway with the positive eco-friendly consequences.

Phosphorus chemistry is essential and acts as a basic and fundamental position in human life. Phosphates in biological molecules appear as fundamental units of the cell. Phosphorus compounds are also found in the minerals of our various body parts. This significance of the element makes it an ideal constituent. Phosphorus is also the main element for plants and fertilizer which help for their development. Synthesis of 2-Amino-4*H*-1-benzopyran-4-yl phosphonates plays an important role in medicinal chemistry. These well-known phosphorus analogues of amino acid compounds have received much more noticeable applications in the discipline of pharmaceuticals. These nuclei play a key role in antibody generation.[3] Phosphorus containing naturally or synthesized heterocyclic compounds having tremendous potential for applications in medicinal chemistry.[4] These significant building blocks were also used in various biological activities such as peptide mimetics,[5] Renin inhibitors.[6,7] 2-amino-3-cyano-4*H*-chromen-4-yl-phosphonates showed potential anticancer activity,[8,9] antiviral activity.[10] 2-amino-3-cyano-4*H*-chromen-4-yl-phosphonates are those that bear with the distinguish of pioneer reaction Knoevenagel, Pinner-cyclisation and advanced phospha-Michael addition reactions.

In this review, we focused on synthetic methods and recent advances of the 2-amino-3-cyano-4*H*-chromen-4-yl-phosphonates compound. These synthesized molecules are considered with the importance on their design approach. The scope of the 2-amino-3-cyano-4*H*-chromen-4-yl-phosphonates heterocyclic compounds using these reactions in a different catalyst for this synthesis of the nucleus is listed in Figure 1.

Synthesis of 2-amino-3-cyano-4*H*-chromen-4-yl-phosphonates compound propose the plausible mechanism of reaction described in Figure 2.

1.1. Base Catalyzed Reaction

1.1.1. Synthesis of (2-amino-3-cyano-4H-chromene-4-yl) phosphonate compounds using inorganic and organic base-catalyzed reaction

Shen *et al.* reported the synthesis of 2-amino-3-cyano-4*H*-chromene-4-yl phosphonate derivatives from salicylaldehydes

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Article

The Design, Synthesis, and Evaluation of Diaminopimelic Acid Derivatives as Potential *dap*F Inhibitors Preventing Lysine Biosynthesis for Antibacterial Activity

Mohd Sayeed Shaikh [1,*], Mayura A. Kale [2], V. Muralidharan [3], T. Venkatachalam [4], Syed Sarfaraz Ali [5], Fahadul Islam [6], Sharuk L. Khan [7], Falak A. Siddiqui [7], Humaira Urmee [8], Ganesh G. Tapadiya [9], Sachin A. Dhawale [9], Long Chiau Ming [10], Ibrahim Abdel Aziz Ibrahim [11], Abdullah R. Alzahrani [11], Md. Moklesur Rahman Sarker [12,13,*] and Mohd Fahami Nur Azlina [14,*]

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Abstract: We created thiazole and oxazole analogues of diaminopimelic acid (DAP) by replacing its carboxyl groups and substituting sulphur for the central carbon atom. Toxicity, ADME, molecular docking, and in vitro antimicrobial studies of the synthesized compounds were carried out. These compounds displayed significant antibacterial efficacy, with MICs of 70–80 µg/mL against all tested bacteria. Comparative values of the MIC, MBC, and ZOI of the synthesized compound were noticed when compared with ciprofloxacin. At 200 µg/mL, thio-DAP (1) had a ZOI of 22.67 ± 0.58, while ciprofloxacin had a ZOI of 23.67 ± 0.58. To synthesize thio-DAP (1) and oxa-DAP (2), l-cysteine was used as a precursor for the L-stereocenter (l-cysteine), which is recognized by the *dap*F enzyme's active site and selectively binds to the ligand's L-stereocenter. Docking studies of these compounds were carried out using the programme version 11.5 Schrodinger to reveal the hydrophobic and hydrophilic properties of these complexes. The docking scores of compounds one and two were −9.823 and −10.098 kcal/mol, respectively, as compared with LL-DAP (−9.426 kcal/mol.). This suggests that

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Surface decorated quantum dots: Synthesis, properties and role in herbal therapy

Mirza Shahed Baig[1], Ravikiran Maheshrao Suryawanshi[2], Mehrukh Zehravi[3], Hitendra S. Mahajan[2], Ritesh Rana[4], Ahemadi Banu[5], Muthukumar Subramanian[6], Amit Kumar Kaundal[7], Sachin Puri[8], Falak A. Siddiqui[9], Rohit Sharma[10], Sharuk L. Khan[9]*, Kow-Tong Chen[11,12]* and Talha Bin Emran[13,14]

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life

MDPI

Review

An Overview of Diabetic Foot Ulcers and Associated Problems with Special Emphasis on Treatments with Antimicrobials

Mirza Shahed Baig [1], Ahmadi Banu [2], Mehrukh Zehravi [3], Ritesh Rana [4], Sushil S. Burle [5], Sharuk L. Khan [6,*], Fahadul Islam [7], Falak A. Siddiqui [6], Ehab El Sayed Massoud [8,9,10], Md. Habibur Rahman [11,*] and Simona Cavalu [12,*]

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प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित *FUNCTIONALIZED 4H-CHROMEN-5-ONE COMPOUND AND METHOD FOR SYNTHESIS THEREOF* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख दिसम्बर 2022 के उन्नतीसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled *FUNCTIONALIZED 4H-CHROMEN-5-ONE COMPOUND AND METHOD FOR SYNTHESIS THEREOF* as disclosed in the above mentioned application for the term of 20 years from the 29th day of December 2022 in accordance with the provisions of the Patents Act,1970.

अनुदान की तारीख :
Date of Grant : 06/09/2023

पेटेंट नियंत्रक
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टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, दिसम्बर 2024 के उन्नतीसवें दिन को और उसके पश्चात प्रत्येक वर्ष मे उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 29th day of December 2024 and on the same day in every year thereafter.

Chapter

Diagnosis in Medical Imaging

Emphasis on Photoacoustic Phenomena

By N. Jadhav, Jaiprakash Sangshetti, Rohidas B. Arote

Book Machine Learning Approaches and Applications in Applied Intelligence for Healthcare Data Analytics

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ABSTRACT

Photoacoustic imaging is a hybrid technique that shines laser light on tissue and measures optically induced ultrasound signals. There is growing interest within the clinical community in this new technique and its possible clinical applications. One of the most prominent features of photoacoustic imaging is its ability to characterise tissue, leveraging differences in the optical absorption of underlying tissue components such as haemoglobin, lipids, melanin, collagen and water among many others. In this review, the state-of-the-art photoacoustic imaging techniques and some of the key outcomes pertaining to different cancer applications in the clinic are presented.

Boric Acid: A Versatile Catalyst in Organic Synthesis

Shahebnaz K. Pathan, Paresh Mahaparale, Satish Deshmukh, Hemant Une, Rohidas Arote, and Jaiprakash Sangshetti

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Abstract

Various commercial vaccines are used for immunization against hepatitis B. However, these immunotherapeutic vaccines require invasive administration, which can induce side effects, and require multiple shots to elicit an immune response, limiting their efficacy. Compared to traditional hepatitis B vaccines, polymer nanoparticles have more advantageous inherent properties as vaccine delivery carriers, providing increased stability of encapsulated antigen, the possibility of single-shot immunotherapy, and the capability of mucosal administration, which allows various routes of vaccination. In this review, we present up-to-date information on the potential of a biodegradable nanoparticle-based delivery system in treating hepatitis B. We also discuss the application of nanoparticles in various vaccines and highlighted strategies for eliciting an appropriate immune response.

Keywords

Nanoparticles Vaccine delivery Hepatitis B vaccine Immunotherapy

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