7.2. Best Practice

NIRF Ranking

National Institutional Ranking Framework
Ministry of Education
Government of India

India Rankings 2021: Pharmacy (Rank-band: 76-100)

Institution list in alphabetical order

Name	City	State
AISSMS College of Pharmacy	Pune	Maharashtra
Arulmigu Kalasalingam College of Pharmacy	Srivilliputtur	Tamil Nadu
B. K. Mody Government Pharmacy College, Rajkot	Rajkot	Gujarat
CMR College of Pharmacy	Rangareddy	Telangana
College of Pharmacy, Madras Medical College	Chennai	Tamil Nadu
Dadasaheb Balpande College of Pharmacy	Nagpur	Maharashtra
Dr. B. C. Roy College of Pharmacy and Allied Health Sciences	Durgapur	West Bengal
Dr. Vishwanath Karad MIT World Peace University	Pune	Maharashtra
Galgotias University	Gautam Budh Nagar	Uttar Pradesh
Ganpat University	Ganpat Vidyanagar	Gujarat
Girijananda Chowdhury Institute of Pharmaceutical Science	Guwahati	Assam
Gokaraju Rangaraju College of Pharmacy	Hyderabad	Telangana
Jayoti Vidyapeeth Women's University	Jaipur	Rajasthan
KIET Group of Institutions	Ghaziabad	Uttar Pradesh
KLE College of Pharmacy	Bengaluru	Karnataka
KLE College of Pharmacy, Hubli	Hubballi	Karnataka
Maliba Pharmacy College	Tarsadi	Gujarat
Nirmala College of Pharmacy, Mangalagiri	Mangalagiri	Andhra Pradesh
Principal K.M. Kundnani College of Pharmacy	Mumbai	Maharashtra
Sanjivani College of Pharmaceutical Education and Research	Kopargaon	Maharashtra
Shree Warana Vibhag Shikshan Mandal's Tatyasaheb Kore College of Pharmacy, Warananagar	Warananagar	Maharashtra
Shri Vishnu College of Pharmacy	Bhimavaram	Andhra Pradesh
Suresh Gyan Vihar University	Jaipur	Rajasthan
The Rashtrasant Tukadoji Maharaj Nagpur University	Nagpur	Maharashtra
Vivekanand Education Society`s College of Pharmacy	Mumbai	Maharashtra

National Institutional Ranking Framework
Ministry of Education
Government of India

HOME ABOUT NIRF PARAMETERS DOCUMENTS RANKING NOTIFICATION/ADVT FAQS CONTACT

India Rankings 2018: Pharmacy (Rank-band: 51-75)

Institution list in alphabetical order

Name	City	State
Acharya & B M Reddy College of Pharmacy	Bengaluru	Karnataka
Acharya Nagarjuna University College of Pharmaceutical Sciences	Guntur	Andhra Pradesh
Adina Institute of Pharmaceutical Sciences	Sagar	Madhya Pradesh
AISSMS College of Pharmacy	Pune	Maharashtra
Al Shifa College of Pharmacy	Kozhikode	Kerala
B. K. Modi Goverment Pharmacy College	Rajkot	Gujarat
Bharati Vidyapeeth College of Pharmacy	Kolhapur	Maharashtra
Chalapathi Institute of Pharmaceutical Sciences	Guntur	Andhra Pradesh
Girijananda Chowdhury Institute of Pharmaceutical Science	Guwahati	Assam
Gupta College of Technological Sciences	Asansol	West Bengal
Karpagam College of Pharmacy	Coimbatore	Tamil Nadu
KMCH College of Pharmacy	Coimbatore	Tamil Nadu
KVSR Siddhartha College of Pharmaceutical Sciences	Vijayawada	Andhra Pradesh
Maharashtra Institute of Pharmacy	Pune	Maharashtra
Maharishi Markandeshwar	Ambala	Haryana
NSHM Knowledge Campus	Kolkata	West Bengal
S. E. T.`s College of Pharmacy	Dharwad	Karnataka
Samskruti College of Pharmacy	Hyderabad	Telangana
Sanjivani College of Pharmaceutical Education and Research	Kopargaon	Maharashtra
Shree Warana Vibhag Shikshan Mandal`s Tatyasaheb Kore College of Pharmacy	Warananagar	Maharashtra
Sri Padmavathi Mahila Visva Vidyalayam	Tirupathi	Andhra Pradesh
Sri Ramakrishna Institute of Paramedical Sciences	Coimbatore	Tamil Nadu
Sri Venkateswara College of Pharmacy	Chittoor	Andhra Pradesh
The Rashtrasant Tukadoji Maharaj Nagpur University	Nagpur	Maharashtra
Vivekanand Education Society`s College of Pharmacy	Mumbai	Maharashtra

National Institutional Ranking Framework
Ministry of Education
Government of India

HOME ABOUT NIRF PARAMETERS DOCUMENTS RANKING PUBLIC PERCEPTION CONTACT

India Rankings 2017: Pharmacy (Rank-band: 51-75)

Institution list in alphabetical order

Name	City	State
Al Shifa College of Pharmacy	Perintalmanna	Kerala
B.K. Mody Govt. Pharmacy College	Rajkot	Gujarat
Bharati Vidyapeeth`s College of Pharmacy	Navi Mumbai	Maharashtra
Chebrolu Hanumaiah Institute of Pharmaceutical Sciences	Guntur	Andhra Pradesh
Chitkara University	Rajpura	Punjab
Columbia Institute of Pharmacy	Raipur	Chhattisgarh
Dr. Samuel George Institute of Pharmaceutical Sciences	Markapur	Andhra Pradesh
Girijananda Chowdhury Institute of Pharmaceutical Science	Guwahati	Assam
Gokaraju Rangaraju College of Pharmacy	Hyderabad	Telangana
Govt. College of Pharmacy	Aurangabad	Maharashtra
Guru Nanak Institute of Pharmaceutical Science & Technology	Kolkata	West Bengal
I.T.S College of Pharmacy	Ghaziabad	Uttar Pradesh
KMCH College of Pharmacy	Coimbatore	Tamil Nadu
Maharashtra Academy of Engineering & Educational Research`s Maharashtra Institute of Pharmacy	Pune	Maharashtra
Maharishi Markandeshwar University	Ambala	Haryana
Ponda Education Society`s Rajaram and Tarabai Bandekar College of Pharmacy	Ponda	Goa
Pt. Ravishankar Shukla University	Raipur	Chhattisgarh
S.E.T`s College of Pharmacy	Dharwad	Karnataka
Shree Warana Vibhag Shikshan Mandal`s Tatyasaheb Kore College of Pharmacy	Warananagar	Maharashtra
Sinhgad Technical Education Society`s Sinhgad College of Pharmacy	Pune	Maharashtra
Sri Ramakrishna Institute of Paramedical Sciences	Coimbatore	Tamil Nadu
Srinivas College of Pharmacy	Mangalore	Karnataka
SSM College of Pharmacy	Jambai	Tamil Nadu
VELS Institute of Science Technology & Advanced Studies	Chennai	Tamil Nadu
Vivekanand Education Society`s College of Pharmacy	Mumbai	Maharashtra

Cell Culture Laboratory in the HEI

Industrial grade cell culture laboratory equipped with air/ HEPA filter and full proof air-controlled system

Laminar Air Flow Unit

CO_2 Incubator

Created by	Checked by	Approved by	Authorized by

Inverted Microscope

Cooling Centrifuge

Created by	Checked by	Approved by	Authorized by

Common Facility Centre in the HEI

Freeze Dryer

HPLC

Created by | Checked by | Approved by | Authorized by

Uv-Visible Spectrophotometer

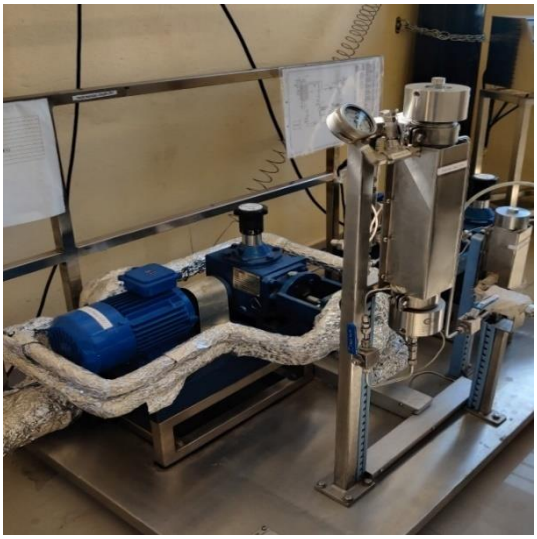
Brookfield Viscometer

FTIR

Inverted Microscope

Incubation Facility Training availed to staff and students

CO_2 Extractor



Created by	Checked by	Approved by	Authorized by

Created by | Checked by | Approved by | Authorized by

Research grants

Academic Year 2021-22

Sr. No.	Name of the research project/ endowment	Amount Sanctioned (INR in Lakhs)	Name of the Funding Agency
1.	Development and characterization of ribavirin-loaded nanoparticles for the treatment of cancer	0.1	Shivaji University Kolhapur
	Total	**0.1**	

Created by | Checked by | Approved by | Authorized by

BHARATI VIDYAPEETH
COLLEGE OF PHARMACY, KOLHAPUR

Celebrating and Beyond

: Founder :
Dr. Patangrao Kadam
M.A., LL.B., Ph.D.

Courses: D.Pharm, B. Pharm, M. Pharm, Ph.D, DTE College Code No. - 6256
(Approved by A.I.C.T.E., P.C.I., New Delhi)
Affiliated to MSBTE Mumbai, Permanently Affiliated to Shivaji University, Kolhapur & Included in list under Sect:2(F) & 12(B) of UGC Act, 1956
B.Pharm. Course reaccredited by NBA, New Delhi
LEAD COLLEGE, SHIVAJI UNIVERSITY, KOLHAPUR, NIRF INDIA RANKING 2021:49
Near Chitranagari, Kolhapur - 416013 (MS) Tel. (0231) 2637286, 2638392, Fax : 2638833

: Principal :
Dr. H.N. MORE
M.Pharm., Ph.D.

Ref. No. : BV/CPK / 614 /2021 - 2022

Date :01/02/2022

To
The Principals and Project guides,
Pharmacy colleges under
Lead College Research
Sensitization Scheme,
Shivaji University,
Kolhapur.

Subject: Regarding research grant of maximum Rs. 10,000/- per project for **'Research Promotion Activity 2021-2022'** under Lead College Research Sensitization Scheme.

Sir/Madam

With reference to subject cited above, all the participated colleges in research promotion activity under lead college research sensitization scheme of Shivaji University hereby informed that research projects submitted by your college have been sanctioned from Shivaji University, Kolhapur for the research grant of maximum Rs. 10,000/- to meet the expenditure of recurring nature towards the project work.

The grant should be utilized for the sanctioned project work only. List of sanctioned projects is attached herewith.

Regards,

Dr. H. N. More
Principal
Lead College
Bharati Vidyapeeth College Of Pharmacy,
Kolhapur

BHARATI VIDYAPEETH COLLEGE OF PHARMACY
PHARMACY LEAD COLLEGE
KOLHAPUR

Web : http://copkolhapur.bharatividyapeeth.edu E - mail : copkolhapur@bharatividyapeeth.edu

Created by	Checked by	Approved by	Authorized by

Research proposals submitted to lead college (Year 2021-2022)

Sr. No.	Name of College	Research Title	Names of Students	Name of Advisor
1	B. V. C. P. Kolhapur	Development and characterization of anti- diabetic and menstruation regulation activity of Herbal formulation	/ Priyanka Mane / Monika Sabale /Mugdha Kamblí	Mr. R.J. Jarag
2	A. B. C. P. Sangli	In-vitro Antiproliferative and apoptotic inducing effect of plant extract on different cell line	Tejas Nirwane Sahil Bedmutha Subodh Patil Shashank Revankar	Mr. Sudhir Patil
3	Shri sankrupa Ghogaon	Development of new quality control method for Gul/ Jaggary	/ Rutuja Dhanawade / Arifa Naikawadi /Kashish Mulla /Tanuja Pawar / Tejal Shankar Veer	Dr. A.V. Belvotagi
4	Ashokrao Mane Pethvadagaon	Design, Development and in-Vitro Antioxidant potential of quercetin nanoparticles	/ Sanjana Jadhav /Pratiksha Jadhav Akash Desai / Ankita Patil	Mrs. P. S. Sankpal
5	SGMCP, Mahagaon	Design and Characterization *of solid self Nano- Emulsifying Drug delivery system of letrozole for Breast Cancer*	Shashikant Adsule Ashish Phutane / Samrudhi Kadam / Shruti Mandekar	Dr. R.B. Kumbhar
6	TKCP, Warnanagar	Development and Characterization of Ribavirin-loaded Nanoparticles for the Treatment of Cancer	/ Bhagyashri Thorat / Priti Barawade Sushant Todkar Shivprasad Patil	Dr. J. I. Disouza
7	Vasantidevi Kodoli	Microwave assisted green synthesis antimicrobial activity of thiazolidine- 4-one derivatives	/ Namira Nadaf	Miss. Lalita Dahiwade
8	Sarojani Kolhapur	In vitro Evaluation of Antitubercular Activity of Coccinia grandis	/ Akanksha Gourkar / Utkarsha Ghatage / Sakshi Bhandari / Snehal Chavan	Ms. Preeti Patil-Vibhute
9	Rajarambapu Kasegaon	Biological Evolution of some synthesized N- substituted 1,3,4 thiadiazole derivatives by using invitro model	/ Nutan Desai Anand Desai / Aishwarya Desahmukh Adesh Deshmukh	Dr. Sandeep Kane

Secretary,
Lead College Working Committee (Pharmacy)

Created by | Checked by | Approved by | Authorized by

Approved by PCI, AICTE New Delhi
Recognized by Govt. of Maharashtra
Affiliated to Shivaji University, Kolhapur (SUK)

Shree Warana Vibhag Shikshan Mandal's
TATYASAHEB KORE COLLEGE OF PHARMACY
Warananagar, Tal: Panhala, Dist: Kolhapur, 416 113 (M.S.)
Phone: (02328) 223501, Website: www.tkcpwarana.ac.in,
Email: tkcp.pc@unishivaji.ac.in

NIRF RankBand: 2017 & 2018 – 51 to 75; 2021 – 75 to 100

Dr. John Disouza
Principal

Hon. Dr. Vinayji V. Kore (Saavkar)
President

Thursday, March 17, 2022

Shivaji University, Sponsored
Minor research project sanctioned under SUK lead college research sensitization scheme (Research Promotion Activity 2021-22)

Income & Expenditure Statement

Description: UG Minor Research Project
Advance Amount: Nil
Cheque No.: Nil

Sr. No.	Income	Amount		Sr. No.	Expenditure	Amount
1.	Gant Sanctioned by Shivaji University	10000	00	01	Chemicals	10100.00
2.	Actual Received		00	02		
3.	Amount to be receivable		10000			
4.	Additional Expenditure shared by College		100			
	Total		**10100**		**Total =**	**10100.00**

Sushant Phadnis & Co.
Chartered Accountant

Chartered Account

Dr. J. I. Disouza
PRINCIPAL
TATYASAHEB KORE COLLEGE OF PHARMACY
(DEGREE) WARANANAGAR, TAL. PANHALA,
DIST. KOLHAPUR. PIN:416113, M.S. (INDIA)

Signature of the Finance Officer/ Account

UDIN:- 22122830AFGEDT1482

Created by | Checked by | Approved by | Authorized by

Academic Year 2020-21

Sr. No.	Name of the research project/ endowment	Amount Sanctioned (INR)	Name of the Funding Agency
1.	Induction of novice pharma academicians	3.32933	All India Council for Technical Education
2.	Leveraging academic researchers on developing diagnostic kits, vaccines and drug product for improved therapy management against deadly viruses: Lesson learnt from COVID 19”	0.93	All India Council for Technical Education
3.	Fostering pedagogy, research administration: Vital domains for effective professional academic career	2.79	All India Council for Technical Education
	Total	**7.04933**	

Annexure -I

SHORT TERM TRAINING PROGRAM

FEED BACK FORM

1. AICTE File No. & Date of Offer Letter : **34-66/504/FDC/STTP/Policy-1/2019-20**

2. Name of the Coordinator : **Dr. John I. Disouza**

3. Name and Address of the Institution : **Shree Warana Vibhag Shikshan Mandal's Tatyasaheb Kore College of Pharmacy, Warananagar, Tal- Panhala, Dist- Kolhapur, M.S., 416 113.**

4. Title of the Faculty Development Programme: **Induction of Novice Pharma Academicians**

5. Dates : **Phase I:- 22/11/2021 to 27/11/2021**
Phase II:- 29/11/2021 to 04/12/2021
Phase III:- 06/12/2021 to 11/12/2021

6. Venue : **By online mode at SWVSM's TKCP College Warananagar**

7. Total No. of participants proposed and actually attended

Proposed **40** Attended **146**

8. No. and date of the offer letter

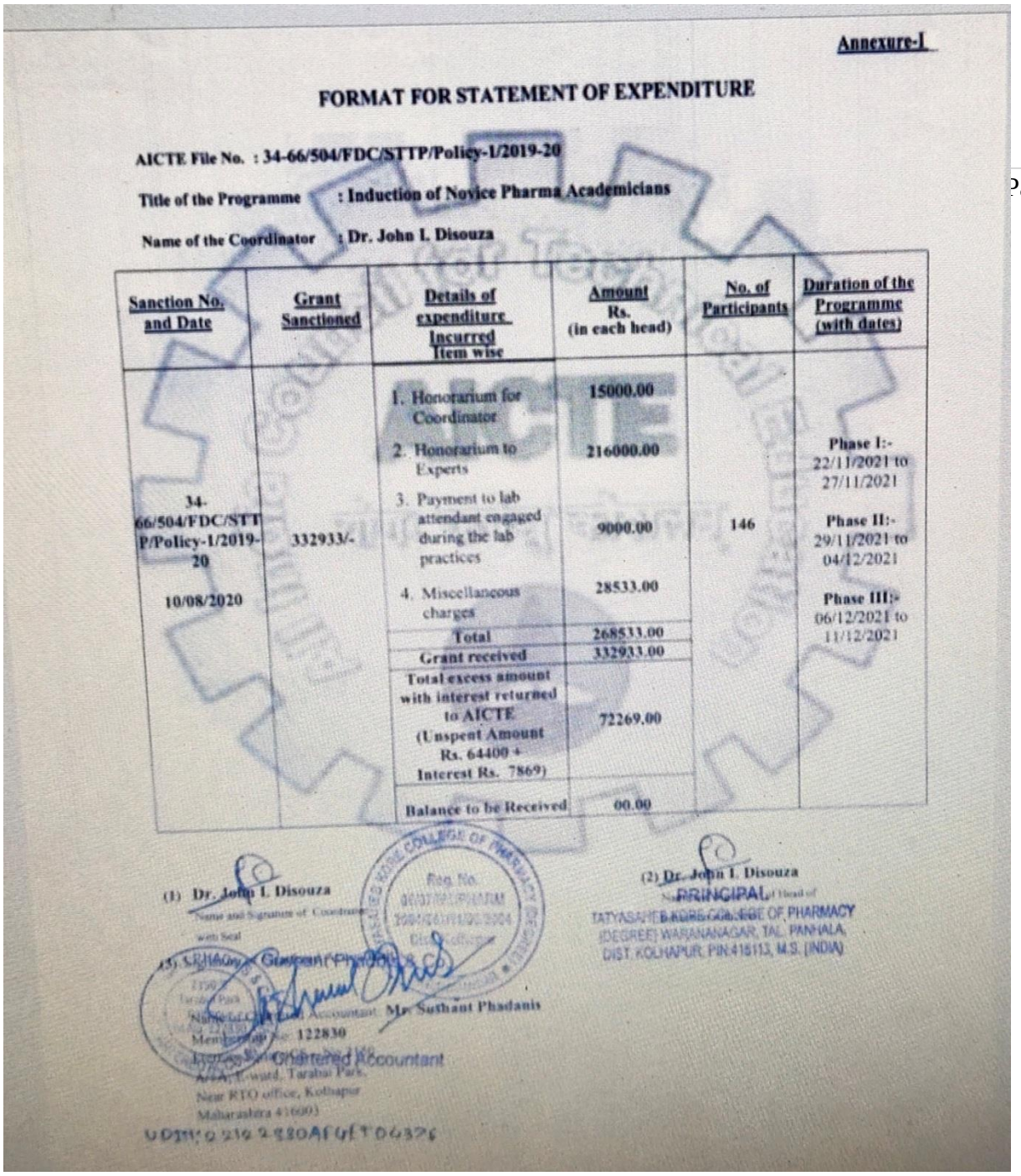
Letter No.	Date
34-66/504/FDC/STTP/Policy-1/2019-20	**10/08/2020**

9. Total amount sanctioned : **Rs. 332933/-**

10. No. and date of Sanction letter:

Letter No.	Date	Grant Released
34-66/504/FDC/STTP/Policy-1/2019-20	**10/08/2020**	**332933/-**

Created by Checked by Approved by Authorized by



Annexure-I

FORMAT FOR STATEMENT OF EXPENDITURE

AICTE File No. : 34-66/504/FDC/STTP/Policy-1/2019-20

Title of the Programme : Induction of Novice Pharma Academicians

Name of the Coordinator : Dr. John I. Disouza

Sanction No. and Date	Grant Sanctioned	Details of expenditure Incurred Item wise	Amount Rs. (in each head)	No. of Participants	Duration of the Programme (with dates)
34-66/504/FDC/STTP/Policy-1/2019-20 10/08/2020	332933/-	1. Honorarium for Coordinator	15000.00	146	Phase I:- 22/11/2021 to 27/11/2021 Phase II:- 29/11/2021 to 04/12/2021 Phase III:- 06/12/2021 to 11/12/2021
		2. Honorarium to Experts	216000.00		
		3. Payment to lab attendant engaged during the lab practices	9000.00		
		4. Miscellaneous charges	28533.00		
		Total	268533.00		
		Grant received	332933.00		
		Total excess amount with interest returned to AICTE (Unspent Amount Rs. 64400 + Interest Rs. 7869)	72269.00		
		Balance to be Received	00.00		

(1) Dr. John I. Disouza
Name and Signature of Coordinator with Seal

(2) Dr. John I. Disouza
PRINCIPAL
TATYASAHEB KORE COLLEGE OF PHARMACY
(DEGREE) WARANANAGAR, TAL. PANHALA,
DIST. KOLHAPUR, PIN:416113, M.S. (INDIA)

Mr. Suthant Phadanis
Membership No. 122830
Chartered Accountant

(1). Name, Signature & Address of the Claimant/Awardee/Coordinator with seal:

Dr. John I. Disouza
Shree Warana Vibhag Shikshan Mandal's Tatyasaheb Kore College of Pharmacy, Warananagar,
Tal- Panhala, Dist- Kolhapur, M.S., 416 113

2). Signature of Chartered Accountant:

Mr. Sushant Phadanis
Chartered Accountant
Membership No: 122830

Address:
Eternity Square CS – No.2150
A/1A, E-ward, Tarabai Park,
Near RTO office, Kolhapur
Maharashtra 416003

Date: 12/03/2022

(3). Signature of Head of the Institute:

Dr. John I. Disouza
PRINCIPAL
TATYASAHEB KORE COLLEGE OF PHARMACY
DEGREE) WARANANAGAR, TAL. PANHALA,
DIST. KOLHAPUR, PIN.416113, M.S. (INDIA)

Address:
Shree Warana Vibhag Shikshan Mandal's
Tatyasaheb Kore College of Pharmacy,
Warananagar, Tal- Panhala, Dist- Kolhapur,
M.S., 416 113

Date: 12/03/2022

(4) Signature of the Finance Officer/Accounts Officer

Mr. Sagar Ghodake

2.2/4.pdf

Fit to page

Affiliated to Shivaji University, Kolhapur (SUK)

Shree Warana Vibhag Shikshan Mandal's

TATYASAHEB KORE COLLEGE OF PHARMACY

Warananagar, Tal: Panhala, Dist: Kolhapur, 416 113 (M.S.)

Phone: (02328) 223501, Website: www.tkcpwarana.ac.in,

Email: tkcp.pc@unishivaji.ac.in

NIRF RankBand: 2017 & 2018 – 51 to 75; 2021 – 75 to 100

Dr. John Disouza
Principal

Hon. Dr. Vinayji V. Kore (Saavkar)
President

March 28, 2022

To,
The Executive Secretary,
Indian Society for Technical Education,
Shaheed Jeet Singh Marg,
New Delhi-110016

Subject: Submission of Utilization Certificate and other documents of AICTE- ISTE Induction/Refresher Program 2020-2021

Respected Sir,

Apropos, we had received grant of Rs. 93,000/- for conduction of one weekAICTE- ISTE Induction/Refresher Program 2020-2021 titled *"Leveraging Academic Researchers on Developing Diagnostic Kits, Vaccines and Drug Product for Improved Therapy Management against Deadly Viruses: Lesson Learnt from COVID-19"*; out of this Rs. 81,000/- were received and utilized for Induction/Refresher program.In this regard,we are herewith submitting all the necessary documents as per list, after completion of program, so that the balance payment of 12,000/- will be sent from you to us immediately. Kindly email us, the soft copies of the certificates of eligible candidates so that we can forward it to them.

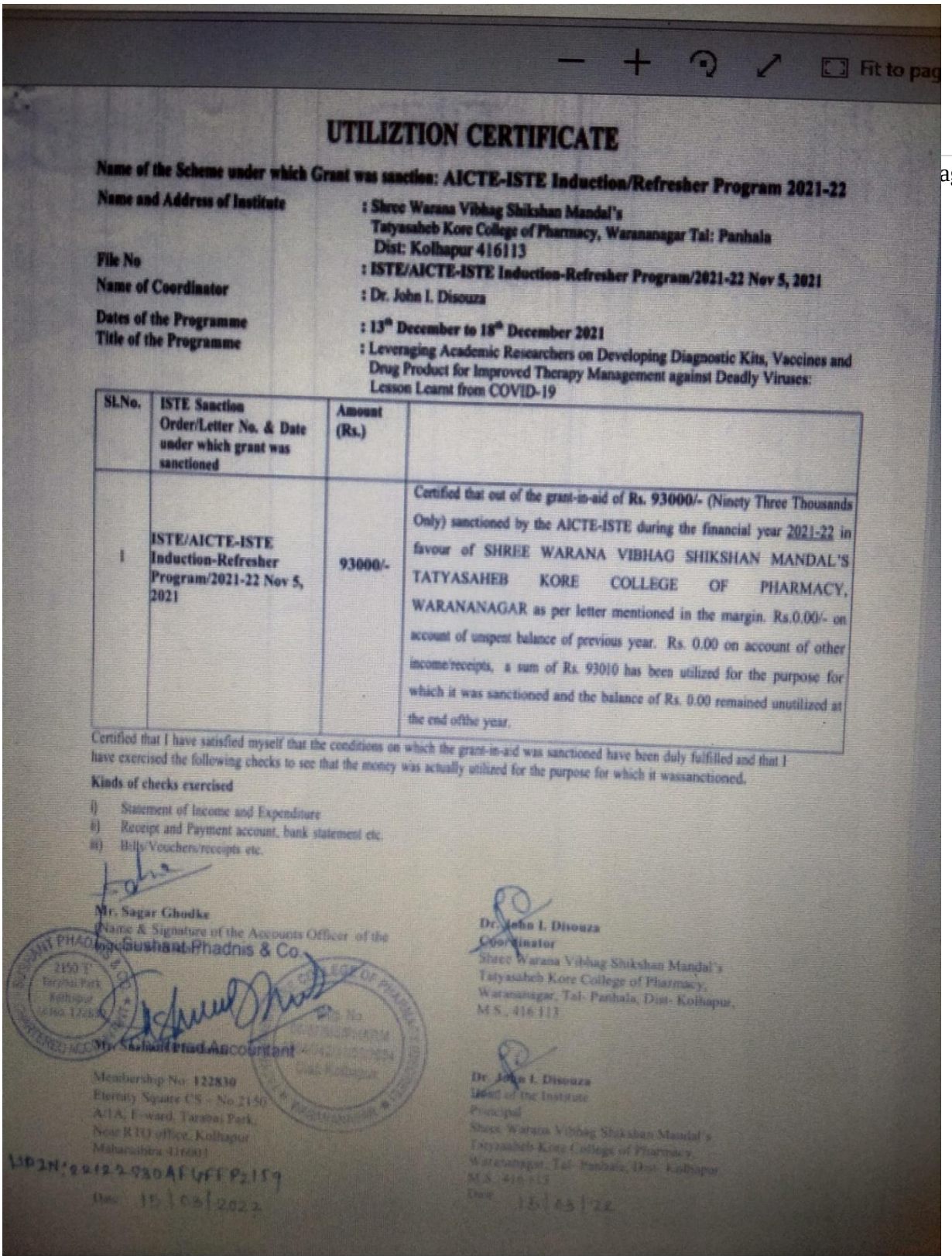
Kindly accept the same.

Thanking You.

Yours Faithfully,

Dr. John Disouza
Coordinator and Principal
PRINCIPAL
TATYASAHEB KORE COLLEGE OF PHARMACY
WARANANAGAR, TAL: PANHALA,
DIST: KOLHAPUR, PIN 416113, M.S. INDIA

Created by	Checked by	Approved by	Authorized by



UTILIZTION CERTIFICATE

Name of the Scheme under which Grant was sanction: AICTE-ISTE Induction/Refresher Program 2021-22

Name and Address of Institute : Shree Warana Vibhag Shikshan Mandal's Tatyasaheb Kore College of Pharmacy, Warananagar Tal: Panhala Dist: Kolhapur 416113

File No : ISTE/AICTE-ISTE Induction-Refresher Program/2021-22 Nov 5, 2021

Name of Coordinator : Dr. John I. Disouza

Dates of the Programme : 13th December to 18th December 2021

Title of the Programme : Leveraging Academic Researchers on Developing Diagnostic Kits, Vaccines and Drug Product for Improved Therapy Management against Deadly Viruses: Lesson Learnt from COVID-19

Sl.No.	ISTE Sanction Order/Letter No. & Date under which grant was sanctioned	Amount (Rs.)	
1	ISTE/AICTE-ISTE Induction-Refresher Program/2021-22 Nov 5, 2021	93000/-	Certified that out of the grant-in-aid of Rs. 93000/- (Ninety Three Thousands Only) sanctioned by the AICTE-ISTE during the financial year 2021-22 in favour of SHREE WARANA VIBHAG SHIKSHAN MANDAL'S TATYASAHEB KORE COLLEGE OF PHARMACY, WARANANAGAR as per letter mentioned in the margin. Rs.0.00/- on account of unpent balance of previous year. Rs. 0.00 on account of other income/receipts, a sum of Rs. 93010 has been utilized for the purpose for which it was sanctioned and the balance of Rs. 0.00 remained unutilized at the end ofthe year.

Certified that I have satisfied myself that the conditions on which the grant-in-aid was sanctioned have been duly fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it wassanctioned.

Kinds of checks exercised

i) Statement of Income and Expenditure
ii) Receipt and Payment account, bank statement etc.
iii) Bills/Vouchers/receipts etc.

Mr. Sagar Ghodke
Name & Signature of the Accounts Officer of the
Sushant Phadnis & Co.

Dr. John I. Disouza
Coordinator
Shree Warana Vibhag Shikshan Mandal's
Tatyasaheb Kore College of Pharmacy,
Warananagar, Tal- Panhala, Dist- Kolhapur,
M.S., 416 113

Membership No: 122830
Eternity Square CS - No.2150
A/1A, E-ward, Tarabai Park,
Near RTO office, Kolhapur
Maharashtra 416003

Dr. John I. Disouza
Head of the Institute
Principal
Shree Warana Vibhag Shikshan Mandal's
Tatyasaheb Kore College of Pharmacy,
Warananagar, Tal- Panhala, Dist- Kolhapur
M.S., 416 113

Date 15/03/2022

Created by	Checked by	Approved by	Authorized by

AICTE-ISTE INDUCTION/REFRESHER PROGRAMMES – 2018-19

ISTE/AICTE-ISTE Orientation/Refresher Programme/2018-19 March 1, 2021.

Dear Sir/Madam,

Sub : AICTE-ISTE Sponsored Induction/Refresher Programs - regarding

Ref. : 1. Our letter dated October 19, 2020.
2. Your consent letter by email to conduct the program.

Sanction is hereby accorded to the institute to conduct **three programs in Online Format** on the subject titled **Fostering Professional Performance** during the following dates:

Phase 1 : 19/03/2021 to 25/03/2021
Phase II : 26/03/2021 to 01/04/2021
Phase III : 02/04/2021 to 08/04/2021

The headwise breakup of each **online programme** will be:

a.	Honorarium for Coordinator	Rs.5,000.00
b.	Honorarium to Experts	Rs.75,000.00
c.	Provision for payment to lab attendant engaged during lab practices	Rs.3,000.00
d.	Miscellaneous charge	Rs.10,000.00
	Total for each program	**Rs.93,000.00**

You are requested to take steps to conduct the program subject to the following guidelines (as laid down by the AICTE and ISTE):

- **The program duration will be six days.**
- The total budget sanctioned for online program is Rs.93,000/- for one week. Expenses should not exceed the prescribed budget provisions.
- Coordinator may use any available software (Google Meet/WebEx/MS Team/ Go to Webinar etc.) for smooth conduction of online FDP and also he/she may explore any other available software.
- Minimum two sessions on inauguration day after inauguration and minimum two sessions before Valedictory function. Institutions/Coordinator will ensure minimum three sessions for remaining four days and one session from that may be utilized for feedback and assessment). Each Session should be of minimum one & half hours.

SHAHEED JEET SINGH MARG, NEAR KATWARIA SARAI, OPP. SANSKRIT VIDYAPEETH, NEW DELHI – 110 016
Phone : 011-26513542, 26963431; email : istedhg@isteonline.org; website : www.isteonline.in

Created by Checked by Approved by Authorized by

Approved by PCI, AICTE New Delhi
Recognized by Govt. of Maharashtra
Affiliated to Shivaji University, Kolhapur (SUK)
Shree Warana Vibhag Shikshan Mandal's
TATYASAHEB KORE COLLEGE OF PHARMACY
Warananagar, Tal: Panhala, Dist: Kolhapur, 416 113 (M.S.)
Phone: (02328) 223501, 223526, Fax: 223501; Website: www.tkcpwarana.ac.in
Email: tkcp.pc@unishivaji.ac.in
NIRF 2017 & 2018: 51 to 75 RankBand

Dr. John Disouza
Principal

Hon. Dr. Vinayji V. Kore (Saavkar)
President

Date: 09/08/2021

AICTE–ISTE Sponsored Induction/Refresher Program on "Fostering Pedagogies, Research, Administration: Vitals Domains of Effective Professional Academic Career"

UTILIZATION CERTIFICATE

Certificate that the grant of Rs. 93000/- (Rupees Ninety Three Thousand only) for each program from AICTE-ISTE to conduct Induction/Refresher Program in online format in three phases titled **"Fostering Pedagogies, Research, Administration: Vitals Domains of Effective Professional Academic Career", vide reference no. ISTE/AICTE-ISTE Orientation/Refreshers Programme/2018-19 dated 01/03/2021 for all three phases.** The amount sanctioned for the conduction of each program and the utilization for the purpose for which it was sanctioned, in association with the terms and conditions laid down by AICTE-ISTE is mentioned as below.

Sr. No.	Date of Program	Sanctioned Amount	Utilized Amount
1	19/03/2021 to 25/03/2021	93000.00	87890.00
2	26/03/2021 to 01/04/2021	93000.00	84720.00
3	02/04/2021 to 08/04/2021	93000.00	86870.00
	Total Amount	**279000.00**	**259480.00**

The total amount received from AICTE-ISTE is Rs. **150000.00** (Rs. One Lakh Fifty Thousand Only) out of Rs. **279000.00** (Rs. Two Lakh Seventy Nine Thousand Only) for all three phases. The actual expenditure of all three phases are Rs. **259480.00** (Rs. Two Lakh Fifty Nine Thousand Four Hundred Eighty Only). The balance to be received from AICTE-ISTE is Rs. **109480.00** (Rs. One Lakh Nine Thousand Four Hundred Eighty only)

Signature of Coordinator

Signature of Principal
PRINCIPAL
TATYASAHEB KORE COLLEGE OF PHARMACY
(DEGREE) WARANANAGAR, TAL. PANHALA,
DIST. KOLHAPUR. PIN:416113, M.S. (INDIA)

Signature of Auditor
(Govt. Internal Aud./
Chartered Acc.)

Sushant Phadnis & Co

TATYASAHEB KORE COLLEGE OF PHARMACY (M.PHARM) WARANANAGAR
Reg. No. 06/07/MS/PHARM 2004/042/20/08/2009 Dist. : Kolhapur.

SUSHANT PHADNIS & CO. CHARTERED ACCOUNTANT 613 'E' Shahupuri Kolhapur M. No. 122830

Chartered Accountant

UDIN - 21122830AAAAGR

Created by	Checked by	Approved by	Authorized by

Academic Year 2019-20

Sr. No.	Name of the research project/ endowment	Amount Sanctioned (INR)	Name of the Funding Agency
1.	Development of docetaxel nanoparticles: Effect of metabolism inhibition on its anticancer activity	0.1	Shivaji University Kolhapur
2.	Modernization and development of microbiology and cell culture laboratory for advanced academic research	14.885	All India Council for Technical Education
3.	Supercritical fluid extraction of medicinal plants and screening of their extracts for pharmacological activity using BIOPAC	14.985	All India Council for Technical Education
	Total	**29.97**	

Created by | Checked by | Approved by | Authorized by

SHIVAJI UNIVERSITY, KOLHAPUR

RESEARCH SENSITIZATION SCHEME FOR COLLEGE STUDENTS

Application for the financial support to research project

(To be submitted to the lead college)

1	Name of the College/Institute	:	Shree Warana Vibhag Shikshan Mandal's Tatyasaheb Kore College of Pharmacy, Warananagar Tal: Panhala, Dist: Kolhapur 416 113 (M. S.), Phone: (O) +912328 223501, (R) +912328 224349
2	Name of the Students (Up to 4)	:	1. Ms. Rasika Amne (Final Year B. Pharm)
		:	2. Ms. Grishma Patil (Final Year B. Pharm)
			3. Mr. Nachiket Banne (Final Year B. Pharm)
3	Title of Project	:	Development of Docetaxel Nanoparticles: Effect of Metabolism Inhibition of its Anticancer Activity
4	Area of Research Project/Subject	:	Pharmaceutical Sciences & Technology
5	Details of the Research Project	:	Annexure – 1
6.	Financial Requirements (Up to rupees 10000/-)	:	11000/-
	Chemicals/ Consumables	:	10,500/-
	Travelling	:	500/-

Name and signature of the project advisor

Dr. A. S. Manjappa

TATYASAHEB KORE COLLEGE OF PHARMACY (DEGREE) WARANANAGAR Reg. No. 06/07/MS/PHARM 2004/042/11/05/2004 Dist. Kolhapur

Name and signature of students

1. Ms. Rasika Amne
2. Ms. Grishma Patil
3. Mr. Nachiket Banne

PRINCIPAL
TATYASAHEB KORE COLLEGE OF PHARMACY
(DEGREE) WARANANAGAR, TAL. PANHALA,
DIST. KOLHAPUR. PIN:416113, M.S. (INDIA)

Approved by PCI, AICTE New Delhi
Recognized by Govt. of Maharashtra
Affiliated to Shivaji University, Kolhapur (SUK)

Shree Warana Vibhag Shikshan Mandal's
TATYASAHEB KORE COLLEGE OF PHARMACY
Warananagar, Tal: Panhala, Dist: Kolhapur, 416 113 (M.S.)
Phone: (02328) 223501, 223526, Fax: 223501; Website: www.tkcpwarana.ac.in
Email: tkcp.pc@unishivaji.ac.in

NIRF 2017 & 2018: 51 to 75 RankBand

Dr. John Disouza
Principal

Hon. Dr. Vinayji V. Kore (Sanvkar)
President

Date:

MODERNISATION AND REMOVAL OF OBSOLENSCENCE RURAL (MODROB -RURAL): 2019-20
"Supercritical Fluid Extraction of Medicianal Plants and Screening of their Extracts for Pharmacological Activities using BIOPAC"

UTILIZATION CERTIFICATE

Certificate that the grant of **Rs. 1498500/-** (Rupees Fourteen Lakhs Ninety Eight Thousand Five Hundred Only) under **MODERNISATION AND REMOVAL OF OBSOLENSCENCE RURAL (MODROB - RURAL)**scheme from AICTE New Delhi has been sanctioned for the project entitled **"Supercritical Fluid Extraction of Medicianal Plants and Screening of their Extracts for Pharmacological Activities using BIOPAC", vide order/letter no. F.No. 84-7/RIFD/MODROB/Rural/Policy-1/2019-20 Dated 16 May 2019.** The amount sanctioned for the above said project has been utilized, and the utilization for the purpose for which it was sanctioned in association with the terms and conditions laid down by AICTE New Delhi is mentioned as below;

AICTE Sanction Order/Letter No. & Date under which the amount was sanctioned	Total Sanctioned Amount (Rs.)		Total Utilized Amount (Rs.)		Unspent Balance
	Non Recurring (Rs.)	Recurring (Rs.)	Non Recurring (Rs.)	Recurring (Rs.)	
F.No. 84-7/RIFD/MODROB/Rural/Policy-1/2019-20 Dated 16 May 2019.	Rs. 1273725/- (Rupees Twelve Lakhs Seventy Three Thousand Seven Hundred Twenty Five Only)	Rs.224775/- (Rupees Two Lakh Twenty Four Thousand Seven Hundred Seventy Five Only)	Rs. 1460000/- (Rupees Fourteen Lakhs SixtyThousand Only)	Rs. 298660/- (Rupees Two Lakhs Ninety Eight Thousand Six Hundred Sixty Only)	Zero Only

The total amount received from AICTE New Delhi is **Rs. 1198800/-**(Rupees Eleven Lakhs Ninety Eight Thousand Eight Hundred Only) out of sanctioned amount of **Rs. 1498500/-**(Rupees Fourteen Lakhs Ninety Eight Thousand Five Hundred Only). The actual expenditure incurred is **Rs. 1758660/-**(Rupees Seventeen Lakhs Fifty Eight Thousand Six Hundred Sixty Only). The balance amount to be received from AICTE is **Rs.299700/-** (Rs. Two Lakhs Ninety Nine Thousand Seven Hundred Only).

Signature of Coordinator
Dr. John I. Disouza

Signature of Principal
PRINCIPAL
TATYASAHEB KORE COLLEGE OF PHARMACY
(DEGREE) WARANANAGAR, TAL. PANHALA,
DIST. KOLHAPUR. PIN:416113, M.S. (INDIA)
21-5-2021

SUSHANT PHADNIS & CO. 2150 'E' Tarabai Park Kolhapur M.No. 122830 CHARTERED ACCOUNTANTS

Sushant Phadnis & Co.
Chartered Accountant

PRINCIPAL
TATYASAHEB KORE COLLEGE OF PHARMACY
(DEGREE) WARANANAGAR, TAL. PANHALA,
DIST. KOLHAPUR. PIN:416113, M.S. (INDIA)

Created by	Checked by	Approved by	Authorized by

Approved by PCI, AICTE New Delhi
Recognized by Govt. of Maharashtra
Affiliated to Shivaji University, Kolhapur (SUK)

Shree Warana Vibhag Shikshan Mandal's

TATYASAHEB KORE COLLEGE OF PHARMACY

Warananagar, Tal: Panhala, Dist: Kolhapur, 416 113 (M.S.)
Phone: (02328) 223501, 223526, Fax: 223501; Website: www.tkcpwarana.ac.in
Email: tkcp.pc@unishivaji.ac.in

NIRF 2017 & 2018: 51 to 75 RankBand

Dr. John Disouza
Principal

Hon. Dr. Vinayji V. Kore (Saavkar)
President

Annexure-1

MODERNISATION AND REMOVAL OF OBSOLENSCENCE RURAL (MODROB - RURAL): 2019-20

STATEMENT OF EXPENDITURE

AICTE File No. F.No. 84-7/RIFD/MODROB/Rural/Policy-1/2019-20 Dated 16 May 2019

Title of Project Supercritical Fluid Extraction of Medicianal Plants and Screening of their Extracts for Pharmacological Activities using BIOPAC

Name of the Coordinator Dr. John I. Disouza
Tatyasaheb Kore College of Pharmacy, Warananagar

Sanction No. and Date	Total Grant Sanctioned	Details of Expenditure Incurred Item wise	Amount Rs. (In each head)
F.No. 84-7/RIFD/MODROB/Rural/Policy-1/2019-20 Dated 16 May 2019.	Rs. 1498500/-	1. CO_2Extractor (Supercritical Fluid Extractor) Make: Amar Equipments, Mumbai	1460000/-
		2. Recurring expenditure includes chemicals, Glasswares & other consumables.	298660/-
		Total Expenditure	1758660/-
		Grant Released	1198800/-
		Grant Remaining	**299700/-**
		Funds utilized from Institute	260160/-

Signature of Coordinator
Dr. John I. Disouza

Signature of Principal
PRINCIPAL
TATYASAHEB KORE COLLEGE OF PHARMACY
(DEGREE) WARANANAGAR, TAL. PANHALA,
DIST. KOLHAPUR. PIN:416113, M.S. (INDIA)

As Per Report of even date

SUSHANT PHADNIS & CO. 2150 'E' Tarabai Park Kolhapur M.No.122830 CHARTERED ACCOUNTANT

Sushant Phadnis
Chartered Accountant
UDIN:21122830AAAATQ5927

2 SEP 2021

Created by | Checked by | Approved by | Authorized by

Dated: 16 May 2019

F.No. 84-7/RIFD/MODROB/Rural/Policy-1/2019-20

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)
Nelson Mandela Marg,Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org

MODROB-RURAL: Sanction Letter

To

The Drawing and Disbursing Officer,
All India Council for
Technical Education, Nelson
Mandela Marg,
Vasant Kunj,
New Delhi - 110070

Sub: Release of a sum of Rs.1198800 /- (Rupees Eleven Lakh Ninety Eight Thousand Eight Hundred Only), being the Grant-in-Aid under the scheme Modernization and Removal of Obsolescence Rural (MODROB-Rural) for the year 2019-20 payable during the current financial year 2019-20- reg.

Sir,

With reference to the proposal submitted by the institute, this is to convey that the sanction of the Council for payment of Rs. 1498500/- (Rupees Fourteen Lakh Ninety Eight Thousand Five Hundred Only) as Grant-in-Aid under the Modernization and Removal of Obsolescence Rural (MODROB-Rural) scheme, as per details given below:

1.	Name and address of the Beneficiary Institution:	Director/ Principal/ Registrar SHREE WARANA VIBHAG SHIKSHAN MANDAL'S TATYASAHEB KORE COLLEGE OF PHARMACY, WARANANAGAR, TATYASAHEB KORE COLLEGE OF PHARMACY, WARANANAGAR, AT POST: WARANANAGAR, TAL: PANHALA, DIST: KOLHAPUR 4116113 MAHARASHATRA STATE, Maharashtra		
2.	Title of proposal:	Supercritical Fluid Extraction of medicinal plants and screening of their extracts for pharmacological activities using BIOPAC.		
3.	Name of Coordinator:	Dr. JOHN DISOUZA		
4.	Duration of the project:	2 years		
4.	Total Grant-in-aid Sanctioned:	Total: Rs. 1498500/-	Non-Recurring (85%): Rs.1273725/-	Recurring (15%): Rs.224775/-
5.	Amount to be released during the year 2019-20:	1st Installment Rs. 1198800 /-	Non-Recurring (85%): Rs.1018980/-	Recurring (15%): Rs.179820/-
6.	Sanctioned grant-in-aid is debitable to:	Major Head 601.18(a)Gen. (Plan Head)		

1. The amount of the Grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the Grant-in-Aid bill and shall be disbursed to and credited to the account of Director/Principal/ Registrar of the Institute through RTGS/PFMS.
2. This Grant-in-Aid is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

The instructions/guidelines to be followed by University/Institute

I. Release of funds

-3562011874

Inward No.
Date - 11/6/2020

Created by | Checked by | Approved by | Authorized by

o/c

Approved by PCI, AICTE New Delhi
Recognized by Govt. of Maharashtra
Affiliated to Shivaji University, Kolhapur (SUK)

Shree Warana Vibhag Shikshan Mandal's

TATYASAHEB KORE COLLEGE OF PHARMACY

Warananagar, Tal: Panhala, Dist: Kolhapur, 416 113 (M.S.)
Phone: (02328) 223501, Website: www.tkcpwarana.ac.in,
Email: tkcp.pc@unishivaji.ac.in

NIRF RankBand: 2017 & 2018 – 51 to 75; 2021 – 75 to 100

Dr. John Disouza
Principal

Hon. Dr. Vinayji V. Kore (Saavkar)
President

TKCP/1227/22-23

Monday, July 25, 2022

To,
Prof. Dileep N. Malkhede
The Advisor (RIFD)
AICTE, New Delhi

Subject: Submission of Utilization Certificate for Grant Received under MODROB-Rural Scheme 2019-20 (F.No. 84-7/RIFD/MODROB/Rural/Policy-1/2019-20, Dated 16 May 2019)

Respected Sir,

Apropos, the grant of **Rs. 1498500/-** (Rupees Fourteen Lakhs Ninety Eight Thousand Five Hundred Only) under **MODROB-RURAL** scheme from AICTE New Delhi has been sanctioned for the project entitled **"Supercritical Fluid Extraction of Medicianal Plants and Screening of their Extracts for Pharmacological Activities using BIOPAC", vide order/letter no. F.No. 84-7/RIFD/MODROB/Rural/Policy-1/2019-20 Dated 16 May 2019.** The amount sanctioned for the above said project has been utilized for the purpose for which it was sanctioned in association with the terms and conditions laid down by AICTE New Delhi.

We are herewith forwarding the Utilization Certificate (UC) along with other Mandatory Documents for your kind consideration and further reimbursement of the grant balance amount.

We kindly request you to reimburse the grant balance amount.

Thanking You.

Yours Faithfully,

TATYASAHEB KORE COLLEGE OF PHARMACY (DEGREE) WARANANAGAR
Reg. No. 06/07/MS/PHARM 2004/042/11/05/2004 Dist. Kolhapur

Project Coordinator
Dr. John I. Disouza

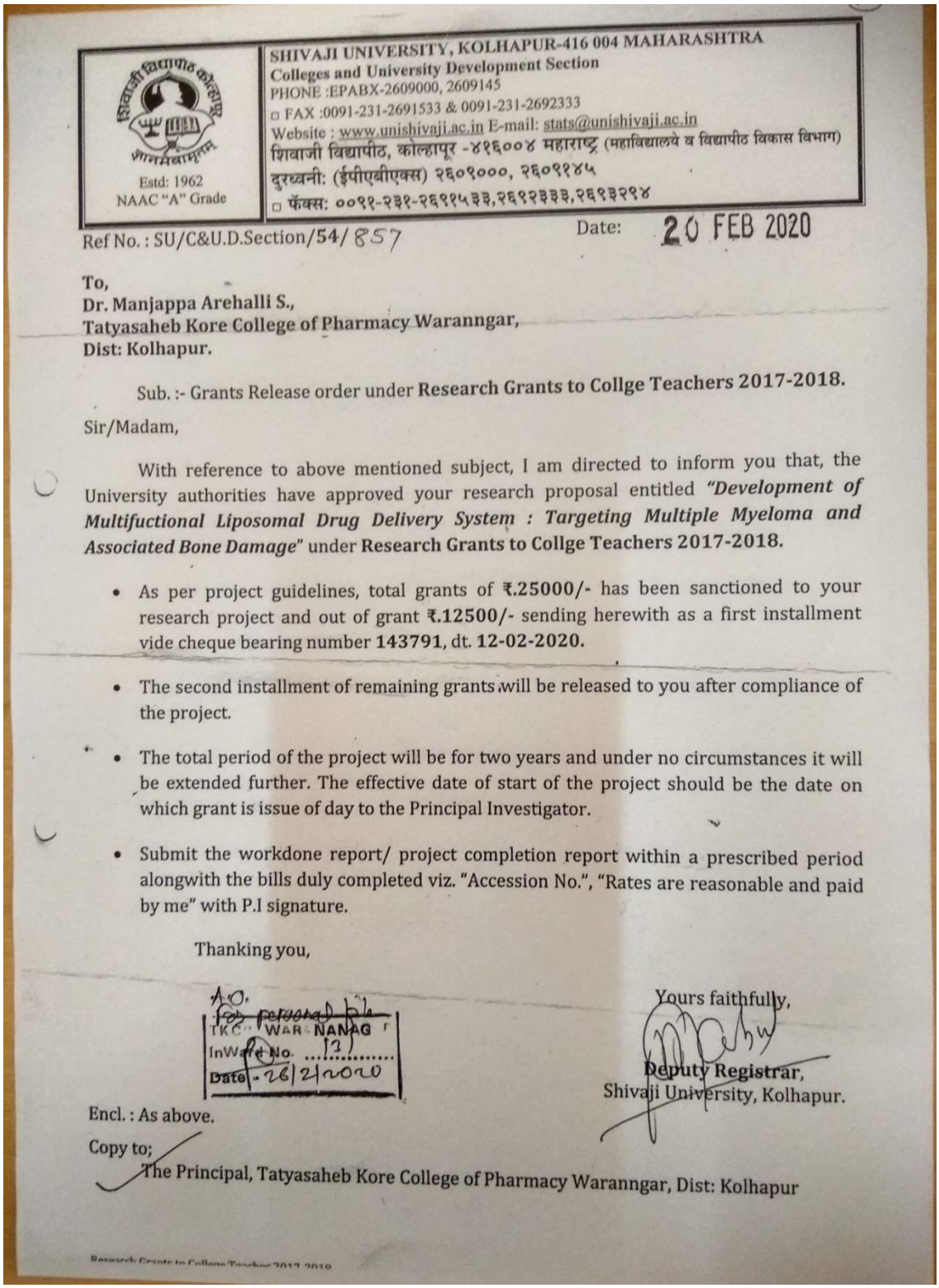
Principal
PRINCIPAL
TATYASAHEB KORE COLLEGE OF PHARMACY
(DEGREE) WARANANAGAR TAL. PANHALA

Created by	Checked by	Approved by	Authorized by

Academic Year 2018-19

Sr. No.	Name of the research project/ endowment	Amount Sanctioned (INR)	Name of the Funding Agency
1.	Development of multifunctional liposomal drug delivery system targeting multiple myeloma and associated bone damage	0.25	Shivaji University Kolhapur
2.	Development of nanoparticles co-loaded with docetaxel and ritonavir: role of ritonavir in enhancement of docetaxel anti-tumor efficacy	0.175	Shivaji University Kolhapur
3.	Two days workshop for teachers on fostering creativity and innovation in science education	1.03	Vigyan Prasar
4.	Self -assembled mixed micelles composed of drug-polymer conjugates: Improved docetaxel efficacy against cytochrome P-450 3A4 expressing tumors	0.1	Shivaji University Kolhapur
	Total	**1.55**	

Created by | Checked by | Approved by | Authorized by



SHIVAJI UNIVERSITY, KOLHAPUR-416 004 MAHARASHTRA
Colleges and University Development Section
PHONE :EPABX-2609000, 2609145
FAX :0091-231-2691533 & 0091-231-2692333
Website : www.unishivaji.ac.in E-mail: stats@unishivaji.ac.in
शिवाजी विद्यापीठ, कोल्हापूर -४१६००४ महाराष्ट्र (महाविद्यालये व विद्यापीठ विकास विभाग)
दुरध्वनी: (ईपीएबीएक्स) २६०९०००, २६०९१४५
फॅक्स: ००९१-२३१-२६९१५३३,२६९२३३३,२६९३२९४

Estd: 1962
NAAC "A" Grade

Ref No. : SU/C&U.D.Section/54/857 Date: 20 FEB 2020

To,
Dr. Manjappa Arehalli S.,
Tatyasaheb Kore College of Pharmacy Waranngar,
Dist: Kolhapur.

Sub. :- Grants Release order under **Research Grants to Collge Teachers 2017-2018.**

Sir/Madam,

With reference to above mentioned subject, I am directed to inform you that, the University authorities have approved your research proposal entitled ***"Development of Multifuctional Liposomal Drug Delivery System : Targeting Multiple Myeloma and Associated Bone Damage"*** under **Research Grants to Collge Teachers 2017-2018.**

- As per project guidelines, total grants of **₹.25000/-** has been sanctioned to your research project and out of grant **₹.12500/-** sending herewith as a first installment vide cheque bearing number **143791**, dt. **12-02-2020.**
- The second installment of remaining grants will be released to you after compliance of the project.
- The total period of the project will be for two years and under no circumstances it will be extended further. The effective date of start of the project should be the date on which grant is issue of day to the Principal Investigator.
- Submit the workdone report/ project completion report within a prescribed period alongwith the bills duly completed viz. "Accession No.", "Rates are reasonable and paid by me" with P.I signature.

Thanking you,

A.O.
for perusal
TKC WARANAG
InWard No. 12
Date - 26/2/2020

Yours faithfully,

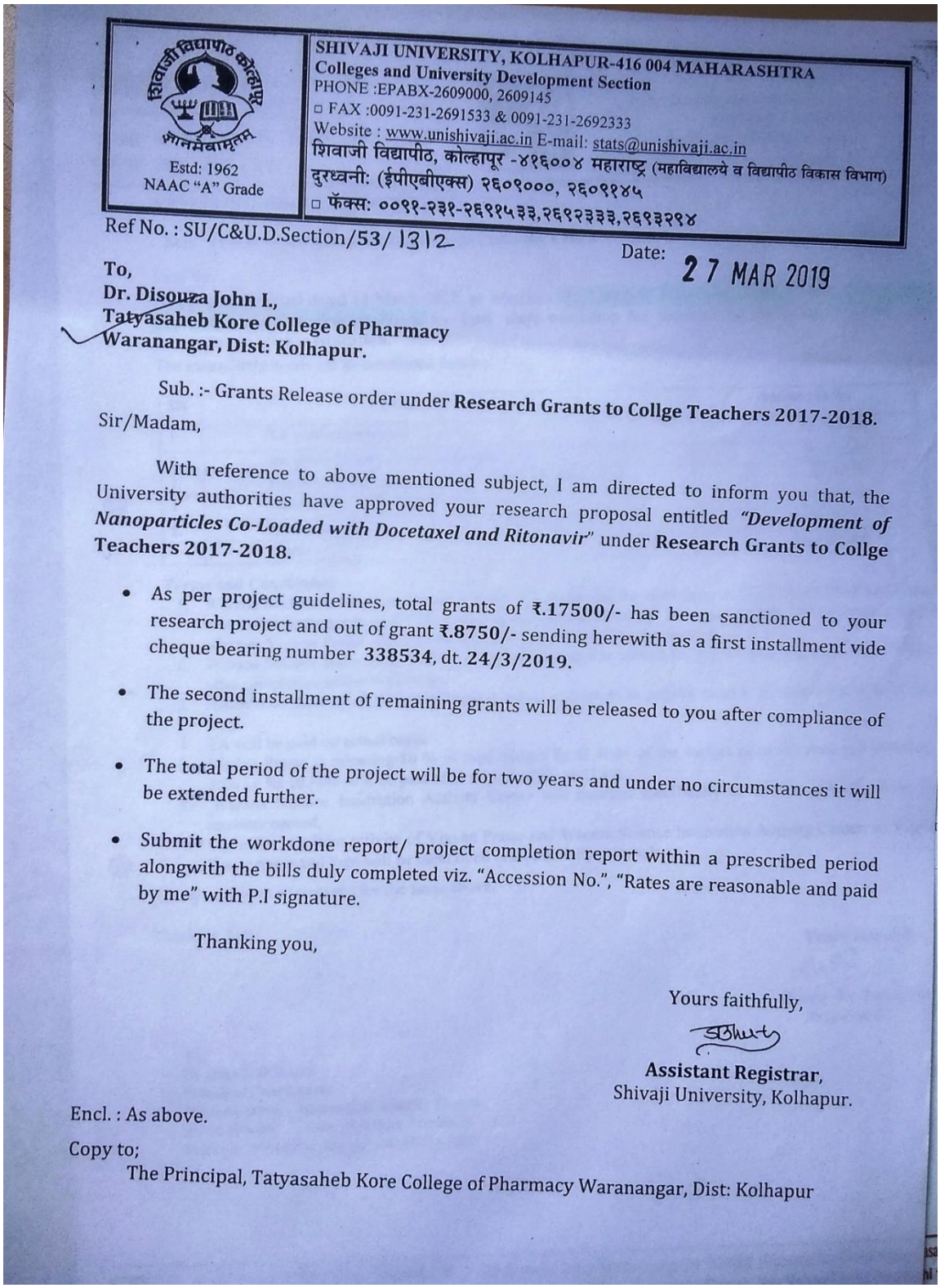
Deputy Registrar,
Shivaji University, Kolhapur.

Encl. : As above.

Copy to;
The Principal, Tatyasaheb Kore College of Pharmacy Waranngar, Dist: Kolhapur

Research Grants to College Teacher 2017-2018

Created by Checked by Approved by Authorized by



शिवाजी विद्यापीठ कोल्हापूर
ज्ञानमेवामृतम्
Estd: 1962
NAAC "A" Grade

SHIVAJI UNIVERSITY, KOLHAPUR-416 004 MAHARASHTRA
Colleges and University Development Section
PHONE :EPABX-2609000, 2609145
□ FAX :0091-231-2691533 & 0091-231-2692333
Website : www.unishivaji.ac.in E-mail: stats@unishivaji.ac.in
शिवाजी विद्यापीठ, कोल्हापूर -४१६००४ महाराष्ट्र (महाविद्यालये व विद्यापीठ विकास विभाग)
दुरध्वनी: (ईपीएबीएक्स) २६०९०००, २६०९१४५
□ फॅक्स: ००९१-२३१-२६९१५३३,२६९२३३३,२६९३२९४

Ref No. : SU/C&U.D.Section/53/ 1312 Date: 27 MAR 2019

To,
Dr. Disouza John I.,
Tatyasaheb Kore College of Pharmacy
Waranangar, Dist: Kolhapur.

Sub. :- Grants Release order under **Research Grants to Collge Teachers 2017-2018.**

Sir/Madam,

With reference to above mentioned subject, I am directed to inform you that, the University authorities have approved your research proposal entitled ***"Development of Nanoparticles Co-Loaded with Docetaxel and Ritonavir"*** under **Research Grants to Collge Teachers 2017-2018.**

- As per project guidelines, total grants of **₹.17500/-** has been sanctioned to your research project and out of grant **₹.8750/-** sending herewith as a first installment vide cheque bearing number **338534**, dt. **24/3/2019.**
- The second installment of remaining grants will be released to you after compliance of the project.
- The total period of the project will be for two years and under no circumstances it will be extended further.
- Submit the workdone report/ project completion report within a prescribed period alongwith the bills duly completed viz. "Accession No.", "Rates are reasonable and paid by me" with P.I signature.

Thanking you,

Yours faithfully,

Assistant Registrar,
Shivaji University, Kolhapur.

Encl. : As above.

Copy to;
The Principal, Tatyasaheb Kore College of Pharmacy Waranangar, Dist: Kolhapur

Created by	Checked by	Approved by	Authorized by

विज्ञान प्रसार
(विज्ञान और प्रौद्योगिकी विभाग, भारत सरकार के अंतर्गत स्वायत संस्था)
ए–50, इंस्टीट्यूशनल एरिया, सेक्टर–62
नोएडा 201 309 (उ.प्र.)

Vigyan Prasar
(An autonomous organisation under the Dept. of Science & Technology, Govt. of India)
A-50, Institutional Area, Sector-62
Noida 201 309 (U.P.)

VP/982/Science Hands on activity/2018/18

04-04-2018

Sub: Two days workshop for teachers on Fostering Creativity and Innovation in Science Education.

Dear Sir,

As per your proposal dated 14 March 2018, an amount of Rs.1,03,000 **(One lakh three thousand only)** have been sanctioned from Vigyan Prasar for **Two days workshop for teachers on fostering creativity and innovation in science education.**

The expenditure heads are as mentioned below:-

SN	Particulars	Amount in Rs
1.	TA to resource person	Rs .50,000
2.	Accommodation to resource persons	Rs.10,000
3.	Honorarium to Resource persons outside as well as local	Rs .8,000
4	Material cost for the experiments	Rs.30,000
5.	Miscellaneous	Rs .5,000
	Total	**Rs.1,03,000**

Terms and Conditions:-

1. Warana Science Innovation Activity Center will organised the workshop on 26-27 April 2018 and center will invite participants and will do all logistic arrangements for both participants and resource persons whereas Vigyan Prasar will provide resource persons for different sessions.
2. Warana Science Innovation Activity Center is requested to submit SE and UCs in original within 30 days after completion of the workshop.
3. Attendance sheet of all Resource Persons and Coordinators in original need to be submitted with SE and UCs.
4. TA will be paid on actual basis.
5. Vigyan Prasar is releasing 80 % of total budget Rs 82,400/- of the budget as an advance and remaining 20% i.e Rs 20,600/-will be paid after receipt of SE and UCs.
6. Warana Science Innovation Activity Center will mention specifically in the SE and UC about the interests earned.
7. Since this is a joint activity of Vigyan Prasar and Warana Science Innovation Activity Center, so Vigyan Prasar name and logo will be mentioned in all publicity materials.

Kindly send your acceptance for the same above.

Thanking You

Yours Sincerely,

(Kapil Kr Tripathi)
Scientist E

To,
Dr John I. D'Souza
Principal Coordinator
Warana Science Innovation Activity Center
Shree Warana Vibhag Shikshan Mandal's
Panhala, District Kolhapur – 416113 (MS)

Project Aided by -
Rajiv Gandhi Science & Technology
Commission, Govt. of Maharashtra

Shree Warana Vibhag Shikshan Mandal's

Warana Science & Innovation Activity Centre

Warananagar, Taluka: Panhala, Dist: Kolhapur, 416 113 (M.S.),
Phone: (02328) 223501, Fax: 223501
Email: waranasiac@gmail.com

Warana Science & Innovation Activity Centre
Project by RGSTC M.S. GOVT.
Warananagar

Receipt payment A/C for two days **Science Teachers workshop on 'Fostering Creativity & Innovation in Science Education'** on 26th & 27th April, 2018.

Sr. No.	Receipt	Amount in Rs.	Sr. No	Payments	Amount in Rs.
1	**Received fromVigyan Prasar**	**82,400.00**	1	TA for resource persons	55640.00
2	**Receivable fromVigyan Prasar**	**20,600.00**	2	Accommodation to resource person	14809.00
3	Registration Fees	10,200.00	3	Honorarium to Resource person outside as well as local	8000.00
4	WSIAC Contribution	48402.00	4	Material cost and expenses	32179.00
			5	Miscellaneous	14517.00
			6	TA & DA for Teachers	22512.00
			7	Food Lunch, Breakfast, Tea	13945.00
	Total	**1,61,602.00**		**Total**	**1,61,602.00**

Utilization Certificate

Certified that (Workshop Expenditure) of **Rs. 161602.00 (Rs. One Lack Sixty One Thousand Six Hundred Two Only)** (Sanctioned by Vigyan Prasar & Warana Science and Innovation Activity Centre) for the conduction of Science Teachers workshop organized on 26th & 27th April, 2018 has been incurred by observing scrupulously all the rules of Vigyan Prasar & Warana Science and Innovation Activity Centre.

Certified that, from total expenditure **Rs. 161602.00 (Rs. One Lack Sixty One Thousand Six Hundred Two Only) amount Rs. 20600 (Rs. Twenty Thousand Six Hundred Only)** is receivable from Vigyan Prasar.

Sushant Phadnis & Co.

SUSHANT PHADNIS & CO. 613 'E' Shahupuri Kolhapur M. No. 122830 CHARTERED ACCOUNTANT

Chartered Accountant

Place: Warananagar

Date: Thursday, May 24, 2018

Principal Coordinator
Warana Science & Innovation
Activity Centre Warananagar,
Tal.- Panhala, Dist.- Kolhapur - 416113.

AI DUAL CAMERA
Shot on realme 3

2023 05 22 19:40

Created by	Checked by	Approved by	Authorized by

Research, review, book chapters, and books publications

Year	2021-22	2020-21	2019-20	2018-19	2017-18
Number	8	13	9	11	4

Papers published in WoS/ Scopus journals with impact factor

Sr. No.	Name of Journal	Impact Factor
1.	Journal of Controlled Release	11.46
2.	Drug Disccovert Todr	8.36
3.	International Journal of Pharmaceutics	6.5
4.	Microchemical Journal	5.304
5.	Chemico-Biological Interactions	5.168
6.	European Journal of Pharmacology	5.195
7.	Journal of Drug Delivery Science and Technology	5.062
8.	AAPS PharmSciTech	4.026
9.	Drug Development and Industrial Pharmacy	3.7
10.	Journal of Pharmaceutical Innovation	2.53
11.	Current Nanoscience	1.53
12.	Brazilian Journal of Pharmaceutical Sciences	1.24
13.	Journal of Research in Pharmacy	0.88

Sr. No.	Title of the paper	Official link
1.	Drug repurposing: An emerging strategy in alleviating skin cancer	https://doi.org/10.1016/j.ejphar.2022.175031
2.	D-α-tocopheryl polyethylene glycol succinate: A review of multifarious applications in nanomedicines	https://doi.org/10.1016/j.onano.2022.100036
3.	Carbohydrate anchored lipid nanoparticles	https://doi.org/10.1016/j.ijpharm.2022.121681
4.	Emulgel for improved topical delivery of tretinoin: Formulation design and c0haracterization	https://doi.org/10.1016/j.pharma.2021.05.004
5.	Recent advances in developing polymeric micelles for treating cancer: Breakthroughs and bottlenecks in their clinical translation	https://doi.org/10.1016/j.drudis.2022.02.005
6.	Development of topical nanogel as a promising delivery of NSAID's tenoxicam using natural permeation enhancer essential oil (euckolyptus)	http://dx.doi.org/10.52711/2231-5713.2022.00048
7.	Inhalation delivery of repurposed drugs for lung cancer: Approaches, benefits and challenges	https://doi.org/10.1016/j.jconrel.2021.11.015
8.	Design, development, in silico and in vitro characterization of docetaxel-loaded TPGS/Pluronic F 108 mixed micelles for improved cancer treatment	https://doi.org/10.1016/j.jddst.2021.102685
9.	Carbohydrates-based diagnosis, prophylaxis and treatment of infectious diseases: Special emphasis on COVID-19	https://doi.org/10.1016/j.carpta.2021.100052
10.	Lyophilization: principle, methods, and applications	http://www.dap.sciencearchives.org/

Created by Checked by Approved by Authorized by

11.	Pharmacosomes: An approach to improve biopharmaceutical properties of drugs basic considerations in development	http://dx.doi.org/10.52711/0974-360x.2021.00779
12.	Microneedles: An advanced approach for transdermal delivery of biologics	http://dx.doi.org/10.5958/2231-5691.2021.00010.1
13.	Drug delivery nanocarriers and recent advances ventured to improve therapeutic efficacy against osteosarcoma: an overview	https://doi.org/10.1186/s43046-021-00059-3
14.	Antidiabetic and antihyperlipidemic effects of Argyreiapierreana and Mateleadenticulata: Higher activity of the micellar nanoformulation over the crude extract	https://doi.org/10.1016/j.jtcme.2020.08.001
15.	Formulation, evaluation and optimization of sustain release matrix tablet ofdiltiazem HCL by using hydrophilic natural polymers	https://www.researchgate.net/publication/350707364_Formulation_Evaluation_and_Optimization_of_Sustain_Release_Matrix_Tablet_of_Diltiazem_HCL_by_Using_Hydrophilic_Natural_Polymers
16.	A review on current nutraceuticals in the management of osteoarthritis	https://www.hortijournal.com/article/view/56/3-1-11
17.	A remarkable in vitro cytotoxic, cell cycle arresting and proapoptotic characteristics of low-dose mixed micellar simvastatin combined with alendronate sodium	https://doi.org/10.1007/s13346-020-00752-1
18.	Design and development of nifedipine extendedrelease tablet double rotary bi- layered compression machine	10.36648/0975-9344.12.4.154
19.	Development of lipid-drug conjugate nanoparticles for hydrophilic and lipophilic	10.2174/1573413716666200319130830

Created by | Checked by | Approved by | Authorized by

	drug: a comparative ex vivo gut and Caco-2 cell permeability study	
20.	Podophyllotoxin-polyacrylic acid conjugate micelles: improved anticancer efficacy against multidrug-resistant breast cancer	https://doi.org/10.1186/s43046-020-00053-1
21.	Development and validation of RP-HPLC method for simultaneous estimation of docetaxel and ritonavir in PLGA nanoparticles	https://doi.org/10.1016/j.pharma.2020.07.004
22.	Nanoparticulate combination of drugs for the treatment ofosteosarcoma: A review	https://doi.org/10.1186/s43046-021-00059-3
23.	Complete genome sequence of Lactobacillus plantarum strain JDARSH, isolated from sheep milk	https://doi.org/10.1128/mra.01199-19
24.	Accelerated stability study of arsenazo iii used for detection of calcium from biological system through uv-spectrophotometer, biochemistry analyzer, pheter, HPLC and HPTLC	10.13040/IJPSR.0975-8232.12(3).1615-23
25.	Design, development and assessment of herbal lipstick from natural pigments	https://globalresearchonline.net/journalcontents/v61-1/10.pdf
26.	Ameliorated in vitro anticancer efficacy of methotrexate d-α-Tocopheryl polyethylene glycol 1000 succinate ester against breast cancer cells	https://doi.org/10.1186/s43094-019-0013-x
27.	Biological activities of Cassia occidentalis Linn: a systematic review	10.20959/wjpr20199-15430
28.	Comparative studies of various adsorbent carriers for enhancing dissolution profile of ketoprofen	https://www.researchgate.net/publication/335676307_COMPARATIVE_STUDIES_OF_VARIOUS_ADSORBENT_CARRIERS_FOR_ENHANCING_DISSOLUTION_PROFILE_OF_KETOPROFEN

Created by | Checked by | Approved by | Authorized by

29.	Studies on solubility enhancement of telmisartan by adsorption method	https://www.researchgate.net/publication/343163641_STUDIES_ON_SOLUBILITY_ENHANCEMENT_OF_TELMISARTAN_BY_ADSORPTION_METHOD
30.	Quality by design approach for development and evaluation of self-emulsifying drug delivery system of nitrofurantoin	https://pubmed.ncbi.nlm.nih.gov/31346822/
31.	Evaluation of Lactobacillus plantarum growth in milk of Indian buffalo breeds based on its physico-chemical content	https://kuojs.lib.ku.ac.th/index.php/BufBu/article/view/2029
32.	Design and evaluation of guanfacine extended-release formulation	https://doi.org/10.22159/ijap.2019v11i3.30578
33.	Simvastatin loaded nano mixed micelles: an approach to treat hormone dependent carcinomas	10.13040/IJPSR.0975-8232.10(2).546-54
34.	Polymeric mixed micelles: improving the anticancer efficacy of single-copolymer micelles	10.1615/CritRevTherDrugCarrierSyst.2018020481
35.	Shelf-life stability of encapsulated lactic acid bacteria isolated from sheep milk thrived in different milk as natural media	https://doi.org/10.1016/j.smallrumres.2018.09.014
36.	In vitro free radical scavenging and antidiabetic activity of aqueous and ethanolic leaf extracts: a comparative evaluation of Argyreiapierreana and Mateleadenticulata	https://doi.org/10.1080/03639045.2018.1562461
37.	Unravelling the anticancer efficacy of 10-oxo-7-epidocetaxel: in vitro and in vivo results	https://doi.org/10.1080/03639045.2018.1562461

Created by Checked by Approved by Authorized by

38.	Design and development of aliphatic amino acid-cholesterol biomolecular scaffold as anticancer conjugates	https://www.proquest.com/openview/818c5d76a6b2289bbeb16b818f5d2182/1?pq-origsite=gscholar&cbl=1936342
39.	D-Gluconic acid–based methotrexate prodrug–loaded mixed micelles composed of MDR reversing copolymer: in vitro and in vivo results	https://doi.org/10.1007/s00396-018-4416-6
40.	Formulation development and evaluation of anti-inflammatory potential of topical tenoxicam nanogel on animal model	https://www.researchgate.net/publication/335203399_FORMULATION_DEVELOPMENT_AND_EVALUATION_OF_ANTI-INFLAMMATORY_POTENTIAL_OF_TOPICAL_TENOXICAM_NANOGEL_ON_ANIMAL_MODEL
41.	Development and validation of a simple UV spectrophotometric and fluorometric method for the determination of valacyclovir hydrochloride both in bulk and marketed dosage form	http://www.ijpacr.com/files/18-4-18/10.pdf
42.	Quality by design-based formulation and evaluation of fast dissolving tablet of aspirin	https://doi.org/10.22377/ajp.v12i01.2046
43.	Mixed micelles as nano polymer therapeutics of docetaxel: increased in vitro cytotoxicity and decreased in vivo toxicity	10.2174/1567201814666170621113637
44.	Development of spectrophotometric and fluorometric methods for estimation of darunavir using QbD approach	http://dx.doi.org/10.22159/ijcpr.2018v10i1.24401
45.	Granules of unistrain lactobacillus as nutraceutical antioxidant agent	10.13040/IJPSR.0975-8232.9(4).1594-99

Created by | Checked by | Approved by | Authorized by

46.	Evaluation of Hepatoprotective activity of ethanolic extract of garuga pinnata roxburgh leaves against carbon tetrachloride induced hepatotoxicity in rats	https://www.rjptonline.org/
47.	Garuga pinnata attenuates oxidative stress and liver damage in chemically induced hepatotoxicity in rats	https://doi.org/10.1080/2314808X.2021.1961207
48.	A Review on Medicinal Importance of Allophylus cobbe (L.) Raeusch and Garuga pinnata Roxburgh	https://www.ijpbsonline.com/
49.	Medicinal Plants with Hepatoprotective Activity: A Review	https://www.ijpbsonline.com/

Academic year 2021-22

Created by Checked by Approved by Authorized by

Drug repurposing: An emerging strategy in alleviating skin cancer

Popat Kumbhar [1], Kapil Kole [1], Tejashree Yadav [1], Ashwini Bhavar [1], Pramod Waghmare [1], Rajdeep Bhokare [1], Arehalli Manjappa [1], Niraj Kumar Jha [2], Dinesh Kumar Chellappan [3], Sunita Shinde [1], Sachin Kumar Singh [4], Kamal Dua [5], Ahmad Salawi [6], John Disouza [7], Vandana Patravale [8]

Affiliations — collapse

Affiliations

1 Tatyasaheb Kore College of Pharmacy, Warananagar, Tal: Panhala, Dist: Kolhapur Maharashtra, 416113, India.
2 Department of Biotechnology, School of Engineering & Technology (SET), Sharda University, Greater Noida, 201310, Uttar Pradesh, India; Department of Biotechnology, School of Applied and Life Sciences (SALS), Uttaranchal University, Dehradun 248007, India.
3 Department of Life Sciences, School of Pharmacy, International Medical University, Bukit Jalil, 57000, Kuala Lumpur, Malaysia.
4 School of Pharmaceutical Sciences, Lovely Professional University, Phagwara, Punjab, 144411, India; Faculty of Health, Australian Research Centre in Complementary and Integrative Medicine, University of Technology Sydney, Ultimo, NSW, 2007, Australia.
5 Faculty of Health, Australian Research Centre in Complementary and Integrative Medicine, University of Technology Sydney, Ultimo, NSW, 2007, Australia; Discipline of Pharmacy, Graduate School of Health, University of Technology Sydney, NSW, 2007, Australia; Uttaranchal Institute of Pharmaceutical Sciences, Uttaranchal University, Dehradun, 248007, India.
6 Department of Pharmaceutics, College of Pharmacy, Jazan University, Jazan, 45142, Saudi Arabia.
7 Tatyasaheb Kore College of Pharmacy, Warananagar, Tal: Panhala, Dist: Kolhapur Maharashtra, 416113, India. Electronic address: jidisouza@tkcpwarana.ac.in.
8 Department of Pharmaceutical Sciences and Technology, Institute of Chemical Technology,

Created by | Checked by | Approved by | Authorized by

OpenNano
Volume 6, March–April 2022, 100036

D-α-tocopheryl polyethylene glycol succinate: A review of multifarious applications in nanomedicines

Popat S. Kumbhar [a], Sameer Nadaf [b], Arehalli S. Manjappa [a], Niraj Kumar Jha [c], Sunita S. Shinde [a], Swapnil S. Chopade [a], Amol S. Shete [d], John I. Disouza [a], Unnam Sambamoorthy [e], Sanapala A. Kumar [f]

[a] Department of Pharmaceutics, Tatyasaheb Kore College of Pharmacy, Warananagar, Tal: Panhala, Kolhapur, Maharashtra 416113, India
[b] Sant Gajanan Maharaj College of Pharmacy, Mahagaon, Gadhinglaj, Maharashtra, India
[c] Department of Biotechnology, School of Engineering & Technology (SET), Sharda University, Greater Noida, Uttar Pradesh 201310, India
[d] Department of Pharmaceutics, Krishna Institute of Pharmacy Medical Sciences Deemed to Be University, Karad 415539, India
[e] Department of Pharmaceutics, NRI College of Pharmacy, NRI Group of Institutions, Pothavarappadu (V), Via Nunna, Agiripalli (M), Vijayawada Rural, Krishna, Andhra Pradesh 522212, India

Recent advances in developing polymeric micelles for treating cancer: Breakthroughs and bottlenecks in their clinical translation

Jaskiran Kaur [1], Monica Gulati [1], Niraj Kumar Jha [2], John Disouza [3], Vandana Patravale [4], Kamal Dua [5], Sachin Kumar Singh [6]

Affiliations – collapse

Affiliations

1 School of Pharmaceutical Sciences, Lovely Professional University, Jalandhar-Delhi G.T Road, Phagwara 144411, Punjab, India.
2 Department of Biotechnology, School of Engineering & Technology (SET), Sharda University, Greater Noida, 201310 Uttar Pradesh, India.
3 Tatyasaheb Kore College of Pharmacy, Warananagar, Panhala, Kolhapur, Maharashtra 416113, India.
4 Department of Pharmaceutical Sciences and Technology, Institute of Chemical Technology, Matunga, Mumbai, Maharashtra 400019, India.
5 Discipline of Pharmacy, Graduate School of Health, University of Technology Sydney, NSW 2007, Australia; Faculty of Health, Australian Research Centre in Complementary and Integrative Medicine, University of Technology Sydney, Ultimo, NSW 2007, Australia.
6 School of Pharmaceutical Sciences, Lovely Professional University, Jalandhar-Delhi G.T Road, Phagwara 144411, Punjab, India. Electronic address: singhsachin23@gmail.com.

PMID: 35158056 DOI: 10.1016/j.drudis.2022.02.005

Abstract

Polymeric micelles (PMs) have been explored pre-clinically for the delivery of chemotherapeutics to

Created by Checked by Approved by Authorized by

Development of Topical Nanogel as a Promising Delivery of NSAID's Tenoxicam using Natural Permeation Enhancer Essential Oil (Euckolyptus)

Author(s): Swapnil S Chopade, Esther Gaikwad, Nikhil Patil, Arehalli Manjappa, John Disouza

Email(s): swapnilchopade.tkcp@gmail.com

DOI: 10.52711/2231-5713.2022.00048

Address: Swapnil S Chopade1*, Esther Gaikwad1, Nikhil Patil2, Arehalli Manjappa1, John Disouza1
1Department of Pharmaceutics, Tatyasaheb Kore College of Pharmacy, Warananagar, Dist. Kolhapur, Maharashtra, India 416114.
2Annasaheb Dange College of B. Pharmacy, Ashta, Dist. Sangli, Maharashtra India 416 301.
*Corresponding Author

Published In: **Volume** - 12, **Issue** - 4, **Year** - 2022

ABSTRACT:
Tenoxicam (TNX) is an effective non-steroidal anti-inflammatory drug (NSAIDs) used to treat rheumatoid arthritis. Like other NSAIDs, tenoxicam has the disadvantage of being linked to gastrointestinal side effects. Furthermore, this drug is having weak transdermal penetration, preventing transdermal administration. The goal of this study was to develop a TNX nanogel with a smaller particle size to improve the anti-inflammatory drug's bioavailability and assess its potential in rheumatoid arthritis. The modified emulsification-diffusion method is used to develop nanosized dispersion of TNX using noveon polycarbophil AA-1 as a gelling agent. Moreover, essential oils increase skin penetration by interacting with the stratum corneum (SC). They were found to be successful in increasing skin penetration of both lipophilic and hydrophilic drugs. The rheology, particle size, drug content, % drug release, and in-vitro diffusion study of prepared TNX nanogel were performed. Based on the rheological features of the formulations it was found to be substantial, with the particle size of 125.05nm and zeta potential -8.47mV, drug content of 97.05%, % drug release 97.40% drug diffusion of 97.42%, and pH of 6.2. Tenoxicam nanogel was prepared by using noveon

ELSEVIER

Journal of Controlled Release
Volume 341, January 2022, Pages 1-15

Review article

Inhalation delivery of repurposed drugs for lung cancer: Approaches, benefits and challenges

Popat Kumbhar [a], Arehalli Manjappa [a], Rohit Shah [b], Niraj Kumar Jha [c], Sachin Kumar Singh [d], Kamal Dua [e f], John Disouza [a], Vandana Patravale [g]

[a] Tatyasaheb Kore College of Pharmacy, Warananagar, Tal: Panhala, Dist: Kolhapur Maharashtra 416113, India
[b] Appasaheb Birnale College of Pharmacy, Sangli, Maharashtra 416416, India
[c] Department of Biotechnology, School of Engineering & Technology (SET), Sharda University, Greater Noida, 201310, Uttar Pradesh, India
[d] School of Pharmaceutical Sciences, Lovely Professional University, Phagwara, Punjab 144411, India
[e] Discipline of Pharmacy, Graduate School of Health, University of Technology Sydney, NSW 2007, Australia
[f] Faculty of Health, Australian Research Centre in Complementary and Integrative Medicine, University of Technology Sydney, Ultimo, NSW 2007, Australia

Created by | Checked by | Approved by | Authorized by

Journal of Drug Delivery Science and Technology
Volume 65, October 2021, 102685

Design, development, *in silico* and *in vitro* characterization of Docetaxel-loaded TPGS/ Pluronic F 108 mixed micelles for improved cancer treatment

Kiran S. Patil [a], Ashok A. Hajare [a], Arehalli S. Manjappa [b], Harinath N. More [c], John I. Disouza [b]

[a] Department of Pharmaceutics, Bharati Vidyapeeth College of Pharmacy, Near Chitranagari, Kolhapur, 416103, Maharashtra, India
[b] Department of Pharmaceutics, Tatyasaheb Kore College of Pharmacy, Warananagar, 416113, Maharashtra, India
[c] Department of Pharmaceutical Chemistry, Bharati Vidyapeeth College of Pharmacy, Near Chitranagari, Kolhapur, 416103, Maharashtra, India

Received 30 January 2021, Revised 16 June 2021, Accepted 27 June 2021, Available online 7 July 2021, Version of Record 24 August 2021.

Created by | Checked by | Approved by | Authorized by

Academic year 2020-21

Carbohydrate Polymer Technologies and Applications 2 (2021) 100052

Contents lists available at ScienceDirect

Carbohydrate Polymer Technologies and Applications

journal homepage: www.elsevier.com/locate/carpta

Carbohydrates-based diagnosis, prophylaxis and treatment of infectious diseases: Special emphasis on COVID-19

Popat S. Kumbhar[a], Anjali K. Pandya[b], Arehalli S. Manjappa[a], John I. Disouza[a], Vandana B. Patravale[b,*]

[a] Tatyasaheb Kore College of Pharmacy, Warananagar, Tal: Panhala, Kolhapur, Maharashtra, India, 416113
[b] Department of Pharmaceutical Sciences and Technology, Institute of Chemical Technology, Nathalal Parekh Marg, Matunga, Mumbai, Maharashtra 400 019, India

ARTICLE INFO

Keywords:
Infectious diseases
COVID-19
SARS-CoV-2
Carbohydrates
Diagnosis
Nanomedicines

ABSTRACT

COVID-19 pandemic is taking a dangerous turn due to unavailability of approved and effective vaccines and therapy. Currently available diagnostic techniques are time-consuming, expensive, and maybe impacted by the mutations produced in the virus. Therefore, investigation of novel, rapid, and economic diagnosis techniques, prophylactic vaccines and targeted efficacious drug delivery systems as treatment strategy is imperative. Carbohydrates are essential biomolecules which also act as markers in the realization of immune systems. Moreover, they exhibit antiviral, antimicrobial, and antifungal properties. Carbohydrate-based vaccines and therapeutics including stimuli sensitive systems can be developed successfully and used effectively to fight COVID-19. Thus, carbohydrate-based diagnostic, prophylactic and therapeutic alternatives could be promising to defeat COVID-19 propitiously. Morphology of SARS-CoV-2 and its relevance in devising combat strategies has been discussed. Carbohydrate-based approaches for tackling infectious diseases and their importance in the design of various diagnostic and treatment modalities have been reviewed.

Created by | Checked by | Approved by | Authorized by

Desai et al. Journal of the Egyptian National Cancer Institute (2021) 33:4
https://doi.org/10.1186/s43046-021-00059-3

Journal of the Egyptian National Cancer Institute

REVIEW Open Access

Drug delivery nanocarriers and recent advances ventured to improve therapeutic efficacy against osteosarcoma: an overview

Sujit Arun Desai[1,2*], Arehalli Manjappa[3] and Preeti Khulbe[1]

Abstract

Background: Osteosarcoma (OS) is one of the key cancers affecting the bone tissues, primarily occurred in children and adolescence. Recently, chemotherapy followed by surgery and then post-operative adjuvant chemotherapy is widely used for the treatment of OS. However, the lack of selectivity and sensitivity to tumor cells, the development of multi-drug resistance (MDR), and dangerous side effects have restricted the use of chemotherapeutics.

Main body: There is an unmet need for novel drug delivery strategies for effective treatment and management of OS. Advances in nanotechnology have led to momentous progress in the design of tumor-targeted drug delivery nanocarriers (NCs) as well as functionalized smart NCs to achieve targeting and to treat OS effectively. The present review summarizes the drug delivery challenges in OS, and how organic nanoparticulate approaches are useful in overcoming barriers will be explained. The present review describes the various organic nanoparticulate approaches such as conventional nanocarriers, stimuli-responsive NCs, and ligand-based active targeting strategies tested against OS. The drug conjugates prepared with copolymer and ligand having bone affinity, and advanced promising approaches such as gene therapy, gene-directed enzyme prodrug therapy, and T cell therapy tested against OS along with their reported limitations are also briefed in this review.

Conclusion: The nanoparticulate drugs, drug conjugates, and advanced therapies such as gene therapy, and T cell therapy have promising and potential application in the effective treatment of OS. However, many of the above approaches are still at the preclinical stage, and there is a long transitional period before their clinical application.

Keywords: Osteosarcoma, Nanocarriers, Stimuli-responsive nanocarriers, Active targeting, Gene therapy, T cell therapy

Background

Of the many bone cancers, osteosarcoma (OS) is the most general prime malignant bone tumor accounting for 60% [1]. Both children and adults between 10 and 20 years of age are affected by OS. OS is a complex unbalanced karyotype tumor having some chromosomal aberrations. Although a variety of genetic factors has been correlated with OS, the specific cause of the OS is not known. Pain is one of the frequent symptoms of OS.

Recently, chemotherapy followed by surgery and then post-operative adjuvant chemotherapy is the widely used conventional strategies for OS treatment. However, the clinical applications of most of the chemotherapeutics have been limited due to lack of selectivity and sensitivity to tumor cells, toxicity towards normal cells, multi-drug resistance (MDR), poor pharmacokinetic performance and, etc. [2, 3]. Furthermore, lower blood flow to the bone also acts as a barrier (blood-bone marrow barrier) in the delivery of anti-tumor therapeutics to the bone [4]. Therefore, there is an unmet need to develop

* Correspondence: sujitdesai37@gmail.com
[1]School of Pharmacy, Suresh Gyan Vihar University, Mahal Rd, Mahal, Jagatpura, Jaipur, Rajasthan 302017, India
[2]Annasaheb Dange College of D Pharmacy, Ashta, Tal: Walwa, Dist., Sangli, Maharashtra 416301, India
Full list of author information is available at the end of the article

Created by Checked by Approved by Authorized by

Journal of Traditional and Complementary Medicine 11 (2021) 259–267

Contents lists available at ScienceDirect

Journal of Traditional and Complementary Medicine

journal homepage: http://www.elsevier.com/locate/jtcme

Antidiabetic and antihyperlipidemic effects of *Argyreia pierreana* and *Matelea denticulata*: Higher activity of the micellar nanoformulation over the crude extract

Venkataiah Gudise [a, *], Bimalendu Chowdhury [b], Arehalli S. Manjappa [c]

[a] Department of Pharmacology, SSJ College of Pharmacy, Vattinagulapally, Gandipet, Hyderabad-500075, Telangana State, India
[b] Department of Pharmacology, Roland Institute of Pharmaceutical Sciences, Khodasingi, Berhampur-760010, Odisha, India
[c] Department of Pharmaceutics, Tatyasaheb Kore College of Pharmacy, Warananagar-416113, Maharashtra, India

ARTICLE INFO

Article history:
Received 29 July 2019
Received in revised form
17 July 2020
Accepted 1 August 2020
Available online 6 August 2020

Keywords:
HFD-STZ
Type 2 diabetes
Argyreia pierreana
Matelea denticulata
Ethanolic extracts
Nanotechnology

ABSTRACT

Background and aim: Herbal medicine combined with nanotechnology is widely proposed to improve the oral bioavailability, reduce the required dose and side effects, and improve the pharmacological efficacy of extracts. Thus, this study evaluated the *in vivo* antidiabetic and antihyperlipidemic activities of ethanolic leaf extracts of *Argyreia pierreana* (AP) and *Matelea denticulata* (MP) plants in comparison with their micellar nanoformulations.
Materials and methods: The mixed micelles (MMs) loaded with crude extracts (CEs) of AP and MD (AP-MMs and MD-MMs) were prepared using a film dispersion technique. Type 2 diabetes was induced in rats using high-fat diet (HFD) and low-dose (35 mg/kg) streptozotocin (STZ) injection. The pharmacological actions of CEs, AP-MMs and MD-MMs were determined in type 2 diabetic Sprague-Dawley rats.
Results: Oral treatments with low-dose AP-MMs and MD-MMs having a mean particle size of 163 ± 10 nm and 145 ± 8 nm respectively, resulted in significantly decreased fasting blood glucose level and increased serum insulin, glucokinase levels, and normalized the elevated levels of hemoglobin A1C and glucose-6-phosphatase. Both extracts significantly decreased serum total cholesterol, triglycerides, and low-density lipoprotein, as well as elevated high-density lipoprotein levels. Additionally, improvements in antioxidant enzymes (superoxide dismutase, catalase, glutathione peroxidase) and malondialdehyde levels were evidenced clearly in tested vital organs (brain, heart, liver).
Conclusion: This is the first report of the antidiabetic and antihyperlipidemic activities of ethanolic leaf extracts of AP and MP plants. Our findings indicate the potential utility of nanotechnology in improving the oral therapeutic efficacy of herbal extracts.

Created by | Checked by | Approved by | Authorized by

International Journal of Scientific Research in Chemistry (IJSRCH)
© 2021 IJSRCH | Volume 6 | Issue 1 | ISSN : 2456-8457

Formulation, Evaluation and Optimization of Sustain Release Matrix Tablet of Diltiazem HCL by Using Hydrophilic Natural Polymers

Sharad Kamble*[1], Sunita Shinde[2]
[1]Department of Pharmaceutics, Nootan College of Pharmacy, Kavathe Mahankal, Sangli, Maharashtra, India
[2]Department of Pharmaceutics, Tatyasaheb Kore College of Pharmacy Warnanagar, Kolhapur, Maharashtra, India

Article Info
Volume 6, Issue 1
Page Number: 16-29

Publication Issue :
January-February-2021

ABSTRACT

Diltiazem HCl is a Calcium channel blocker which is used as anti-anginal and Class IV anti-arrhythmic drug. It is a drug of choice for stable and unstable angina pectoris, myocardial infarction, coronary artery spasm, cardiac arrhythmia, PSVT and hypertension. In this study, sustained release matrix tablets of Diltiazem HCl were prepared by wet granulation method. The formulation of each Diltiazem HCl sustained release matrix tablets is composed of two selected polymers i.e. chitosan and xanthan gum in alone or in combination. The other excipients used were lactose monohydrate for its diluent property, PVP K-30 as a binder and magnesium stearate and talc for lubrication. The weight of tablet was adjusted to 200 mg and each tablet contained 90 mg Diltiazem HCl. Total 9 batches (F1-F9) were prepared.Batch F1, F2 and F3 containing a single polymer i.e. xanthan gum in concentration of 15, 20 and 25% of total weight of the tablet. Batch F4, F5 and F6 containing a single polymer i.e. chitosan in concentration of 20, 30 and 40% of total weight of the tablet Batch F7, F8 and F9 containing combination of both polymers i.e.

Created by | Checked by | Approved by | Authorized by

International Journal of Horticulture and Food Science 2021; 3(1): 22-28

E-ISSN: 2663-1067
P-ISSN: 2663-1075
IJHFS 2021; 3(1): 22-28
Received: 13-11-2020
Accepted: 15-12-2020

Sharad Kamble
Assistant Professor, Department of Pharmaceutics, Nootan College of Pharmacy, Kavathe Mahankal, Sangli, Maharashtra, India

Amol Patil
Head of Department, Nootan College of Pharmacy, Kavathe Mahankal, Sangli, Maharashtra, India

Sunita Shinde
Assistant Professor, Tatyasaheb Kore College of Pharmacy, Warananagar,

A review on current nutraceuticals in the management of osteoarthritis

Sharad Kamble, Amol Patil, Sunita Shinde and Hrithik Ankush

Abstract
Osteoarthritis (OA) is a progressive degenerative joint syndrome that has a major impact on joint function and quality of life. Nutraceuticals and nutritional supplement derived from herbs have long been used in traditional remedy and there is considerable evidence that nutraceuticals may play an important role in irritation and joint demolition in OA. We review the biological effects of some medicinal fruits and herbs like pomegranate, green tea, cat's claw, devil's claw, ginger, Indian olibaum, turmeric and ananas. So in an attempt to understand the essential molecular targets involved in irritation and the joint destruction process and to summarize their toxicities and efficacy for OA management. So far there is insufficient reliable evidence on the effectiveness of ginger, turmeric and ananas. Pomegranate and green tea only have preclinical evidence of efficacy due to the bee deficient in of clinical data. In vivo and clinical studies are required to understand their targets and efficacy in OA. There is strong clinical evidence of the efficacy of devil's claw in relieving pain. However, high-quality clinical trials are required to determine its effectiveness. No severe side effects have been

Created by | Checked by | Approved by | Authorized by

Drug Deliv Transl Res. 2020 Aug;10(4):1122-1135. doi: 10.1007/s13346-020-00752-1.

A remarkable in vitro cytotoxic, cell cycle arresting and proapoptotic characteristics of low-dose mixed micellar simvastatin combined with alendronate sodium

Sandip A Bandgar [1 2], Namdeo R Jadhav [3], Arehalli S Manjappa [4]

Affiliations – collapse

Affiliations

1 Department of Pharmaceutics, Ashokrao Mane College of Pharmacy, Peth Vadgaon, Maharashtra, 416112, India.
2 Department of Pharmaceutics, Bharati Vidyapeeth College of Pharmacy, Kolhapur, Maharashtra, 416013, India.
3 Department of Pharmaceutics, Bharati Vidyapeeth College of Pharmacy, Kolhapur, Maharashtra, 416013, India. nrjadhav18@rediffmail.com.
4 Department of Pharmaceutics, Tatyasaheb Kore College of Pharmacy, Warananagar, Maharashtra, 416113, India.

PMID: 32221848 DOI: 10.1007/s13346-020-00752-1

Abstract

The objective of the present study was to screen the effect of increased simvastatin (SVS) solubility, through mixed micelles as a model approach, on in vitro anticancer efficacy in combination with

Research Article
iMedPub Journals
www.imedpub.com
International Journal of Drug Development and Research
2020
Vol.12 No.4:154
DOI: 10.36648/0975-9344.12.4.154

Design and Development of Nifedipine Extended Release Tablet Double Rotary Bi- Layered Compression Machine

Sunita S Shinde[1]*, Sharad K Kamble[2] and Manohar D Kengar[2]

1 Department of Pharmaceutics, TKCP Warnanagar, Maharashtra, India
2 Department of Pharmaceutics, Nootan College of Pharmacy Kavathemahankal, Maharashtra, India

*Corresponding author: Sunita S Shinde

sharadkamble5@gmail.com

Department of Pharmaceutics, TKCP Warnanagar, Maharashtra, India.

Citation: Shinde SS, Kamble SK, Kengar MD (2020) Design and Development of Nifedipine Extended Release Tablet Double Rotary Bi- Layered Compression Machine. Int J Drug Dev & Res. Vol.12 No.4:154

Abstract

The aim of the present work was to Design and development of Nifedipine extended release tablet 90 mg by double rotary bi layered compression machine that can provide continuous drug release for period of 24 hours. The granules prepared using polymers such as polyethylene glycol 4000, HPMC and cellulose acetate etc. the osmotic pump mechanism was used, after that mechanical drilling machine was used for drilling with respect in size. Prior to compression, the prepared granules were evaluated for flow and compression characteristics. The principle shows two compartments was present such as the drug layer and push layer, after some time push layer goes contact with aqueous medium then swelling of push layer and suspend drug particle and flow through the delivery orifice. Prepared Nifedipine extended release tablet was evaluated for **in vitro** drug release study. The prepared Nifedipine extended release tablet 90 mg showed good mechanical properties (hardness and friability) as well as good **in vitro** dissolution profile showing the release of constant drug for 24 hours. The increase in binder has retarding effect leading to the decrease in the dissolution. The Change in granulation time with respect to increase in parameters

Keywords: Nifedine; Extended release tablet; Infrared Spectroscopy; Push pull layer

Received: July 11, 2020; Accepted: September 09, 2020; Published: September 16

Created by | Checked by | Approved by | Authorized by

Development of Lipid-Drug Conjugate Nanoparticles for Hydrophilic and Lipophilic Drug: A Comparative Ex vivo Gut and Caco-2 Cell Permeability Study

Authors: Kumbhar, Popat S.; Manjappa, Arehalli Sidramappa; Shete, Abhijeet Dilip; Disouza, John Intru
Source: Current Nanoscience, Volume 16, Number 6, 2020, pp. 870-879(10)
Publisher: Bentham Science Publishers
DOI: https://doi.org/10.2174/1573413716666200319130830

< previous article | view table of contents | next article > ADD TO FAVOURITES

Abstract | References | Citations | Supplementary Data

Background: The lipid-drug conjugate nanoparticles (LDC NPs), amongst other lipidbased nanoparticles, are the most accepted ones for the oral delivery of both hydrophilic and hydrophobic drugs with poor bioavailability. Besides, the LDC NPs show altered physicochemical properties of the drug and have the potential applications in targeting the drug to a specific organ.

Objective: To synthesize hydrophilic Valacyclovir (VACV)-stearic acid (SA) and lipophilic Acyclovir (ACV)-stearic acid conjugates (VACV-SAC and ACV-SAC), and develop their nanoparticles (VACV-LDC-NPs and ACV-LDC-NPs) for improved intestinal permeability.

Methods: Both VACV-SAC and ACV-SAC were synthesized and confirmed using FTIR, NMR, and DSC techniques and characterized for assay. The lipid drug conjugate nanoparticles (LDC NPs) were prepared using cold high-pressure homogenization technique and characterized for drug content, mean particle size, zeta potential, ex vivo gut permeability using rat gut sac model, and Caco-2 cell permeability.

Created by | Checked by | Approved by | Authorized by

Kumbhar et al. Journal of the Egyptian National Cancer Institute (2020) 32:42
https://doi.org/10.1186/s43046-020-00053-1

Journal of the Egyptian National Cancer Institute

RESEARCH Open Access

Podophyllotoxin-polyacrylic acid conjugate micelles: improved anticancer efficacy against multidrug-resistant breast cancer

Popat S. Kumbhar, Asmita M. Sakate, Onkar B. Patil, Arehalli S. Manjappa and John I. Disouza*

Abstract

Background: Podophyllotoxin (PPT) is a naturally occurring compound obtained from the roots of Podophyllum species, indicated for a variety of malignant tumors such as breast, lung, and liver tumors. This toxic polyphenol (PPT) exhibited significant activity against P-glycoprotein (P-gp) mediated multidrug-resistant (MDR) cancer cells. However, extremely poor water solubility, a narrow therapeutic window, and high toxicity have greatly restricted the clinical uses of PPT. Therefore, the present research was aimed to synthesize the water-soluble ester prodrug of PPT with polyacrylic acid (PAA), a water-soluble polymer by Steglich esterification reaction, and to screen it for assay, solubility, in vitro hemolysis, in vitro release, and in vitro anticancer activity.

Results: The Fourier transform infrared (FTIR) and nuclear magnetic resonance (NMR) spectroscopy results revealed the successful synthesis of podophyllotoxin-polyacrylic acid conjugate (PPC). The assay and saturation solubility of the prodrug is found to be 64.01 ± 4.5% and 1.39 ± 0.05 mg/mL (PPT equivalent) respectively. The PPC showed CMC (critical micelle concentration) of 0.430 mg/mL in distilled water at room temperature. The PPC micelles showed a mean particle size of 215 ± 11 nm with polydispersity index (PDI) of 0.193 ± 0.006. Further, the transmission electron microscope (TEM) results confirmed the self-assembling character of PPC into micelles. The PPC caused significantly less hemolysis (18.6 ± 2.9%) than plain PPT solution. Also, it demonstrated significantly ($p < 0.01$) higher in vitro cytotoxicity against both sensitive as well as resistance human breast cancer cells (MCF-7 and MDA MB-231) after 48 h of treatment.

Conclusion: The obtained study results clearly revealed the notable in vitro anticancer activity of PPT following its esterification with PAA. However, further in vivo studies are needed to ascertain its efficacy against a variety of cancers.

Keywords: Podophyllotoxin prodrug, PAA, Hemolysis, In vitro release, Cytotoxicity

Background

Cancer or malignancy is a heterogeneous disease characterized by abnormal cell mitosis, and is a serious health concern around the world. Cancer predominance and mortality are expanding year by year and creating a heavier burden globally [1].

Chemotherapy is the most preferred among the available treatment strategies and has been proven to be effective in clinics. But, the multidrug resistance (MDR) is one of the challenges in the efficient treatment of cancers. A toxic polyphenol podophyllotoxin (PPT) was obtained from the roots of plants from the genus Podophyllum [2] and can be used to treat cancers like breast, lung, and liver cancer and it acts by blocking cell division [3, 4]. In earlier research papers, it is reported that PPT is capable to kill effectively the MDR (P-gp mediated) cancer cells and therefore used to treat a variety of MDR tumors efficiently [5–8]. However, the clinical applications of PPT are significantly restricted due to its

* Correspondence: johnsir4u@gmail.com
Department of Pharmaceutics, Tatyasaheb Kore College of Pharmacy, Warananagar, Panhala, Kolhapur, Maharashtra 416113, India

Created by Checked by Approved by Authorized by

Annales Pharmaceutiques Françaises
Volume 78, Issue 5, September 2020, Pages 398-407

Original article

Development and validation of RP-HPLC method for simultaneous estimation of docetaxel and ritonavir in PLGA nanoparticles

Développement et validation de la méthode RP-HPLC pour la détermination simultanée du docétaxel et du ritonavir dans des nanoparticules polymériques

P.S. Kumbhar [a], Sonali K. Diwate [a b], U.G. Mali [a], T.U. Shinde [a], J.I. Disouza [a], A.S. Manjappa [a]

Show more

+ Add to Mendeley Share Cite

https://doi.org/10.1016/j.pharma.2020.07.004 Get rights and content

Created by Checked by Approved by Authorized by

Academic year 2019-20

NANOPARTICULATE COMBINATION OF DRUGS FOR THE TREATMENT OF OSTEOSARCOMA: A REVIEW

SGVU JOURNAL OF PHARMACEUTICAL RESEARCH & EDUCATION, VOLUME 5 ISSUE 1, 2020

Mr. Sujit Desai*[2], Dr. Preeti Khulbe[1], Dr. Arehalli Manjappa[3]

1. Gyan Vihar School of Pharmacy, Suresh Gyan Vihar University, Jaipur, Rajasthan, India,
2. Annasaheb Dange College of D Pharmacy, Ashta, Maharashtra, India.
3. Tatyasaheb Kore College of Pharmacy, Warananagar, Maharashtra, India

ABSTRACT

Malignancy speaks to a gathering of heterogeneous ailments described by uncontrolled development and spread of abnormal cells, at last leading to death. Nanomedicine assumes a huge job in the advancement of nanodrugs, nanodevices, drug delivery systems as well as nanocarriers. A portion of the significant issues in the treatment of cancer are multidrug resistance (MDR), restricted helpful window and undesired symptoms of accessible anticancer drug and the constraints of anticancer drugs. A few nano systems being used for recognition, determination and treatment, for example, theranostic bearers, liposomes, carbon nanotubes, quantum spots, polymeric micelles, dendrimers and metallic nanoparticles. Nonetheless, non-biodegradable nanoparticles cause high tissue aggregation and prompts harmfulness. MDR is viewed as a significant obstruction to disease treatment because of metastatic tumors that create protection from chemotherapy. MDR adds to the disappointment of chemotherapies in different diseases, including bosom, ovarian, lung,

| Announcement | 9 January 2020

Complete Genome Sequence of *Lactobacillus plantarum* Strain JDARSH, Isolated from Sheep Milk

Authors: Abhinandan Patil, Anamika Dubey, Muneer Ahmad Malla, John Disouza, Shivaji Pawar, Abdulaziz A. Alqarawi, Abeer Hashem, Elsayed Fathi Abd_Allah, Ashwani Kumar | AUTHORS INFO & AFFILIATIONS

DOI: https://doi.org/10.1128/MRA.01199-19 • Check for updates

ABSTRACT

Lactobacillus plantarum strain JDARSH, a potential probiotic with a wide range of functions, was isolated from sheep milk. Here, we report the whole-genome sequence of this bacterium. The draft genome yielded a 3.20-Mb genome and 2,980 protein-coding sequences.

Created by | Checked by | Approved by | Authorized by

Kamble et al., IJPSR, 2021; Vol. 12(3): 1615-1623. E-ISSN: 0975-8232; P-ISSN: 2320-5148

IJPSR (2021), Volume 12, Issue 3 **(Research Article)**

INTERNATIONAL JOURNAL OF PHARMACEUTICAL SCIENCES AND RESEARCH

Received on 12 February 2020; received in revised form, 27 January 2021; accepted, 18 February 2021; published 01 March 2021

ACCELERATED STABILITY STUDY OF ARSENAZO III USED FOR DETECTION OF CALCIUM FROM BIOLOGICAL SYSTEM THROUGH UV-SPECTROPHOTOMETER, BIOCHEMISTRY ANALYZER, PH METER, HPLC AND HPTLC

J. R. Kamble, A. S. Sherikar* and J. I. Disouza

Department of Quality Assurance, Tatyasaheb Kore College of Pharmacy, Warananagar, Panhala, Kolhapur - 416113, Maharashtra, India.

Keywords:

In-vitro, linearity, Arsenazo III, Biochemistry analyzer, Shelf life and retention time

Correspondence to Author:
A. S. Sherikar

Department of Quality Assurance, Tatyasaheb Kore College of Pharmacy, Warananagar, Panhala, Kolhapur - 416113, Maharashtra, India.

E-mail: amol.sherikar@gmail.com

ABSTRACT: Objective: Stability of *In-vitro* Diagnostics (IVDs) reagents was performed to check its quality standards, performance, and linearity. IVDs like Calcium reagent containing Arsenazo III were studied by Accelerated stability studies by considering temperature, pH, and light parameters. **Materials and Methods:** Stability data were obtained by using different instruments like UV spectrophotometer, Biochemistry analyzer, pH meter, HPLC, and HPTLC. This gives information about the degradation that occurred during storage, transportation, *etc.* **Results:** Calcium reagent containing Arsenazo III degrade 90.81% when placed at 42 °C by UV spectrophotometer analysis. The stability conditions' effect on actual serum concentration was measured by taking reagent performance on a biochemistry analyzer. The linearity of reagents decreases at 42 °C and at normal temperature, linearity does not change. HPLC spectra gave degradation of reagent, which was analyzed by its retention time, peak height, and % area. Arsenazo III produces 91.25% remains undecomposed in 3 months when exposed to light. The shelf life of the calcium reagent was found to be 85.36. HPTLC spectra gave degradation of Arsenazo III, which was analyzed by its retention time, peak height. The reagent, during its stability studies, shows a slight change in its pH. **Conclusion:** From HPLC and HPTLC analysis, it is confirmed that the degradation occurred in Arsenazo III after exposed to an accelerated stability study.

Design, Development and Assessment of Herbal Lipstick from Natural Pigments

***Mahanthesh M.C., Manjappa A.S., Shinde M.V., Sherikar A.S., Disouza J.I., Namrata B.U, Kranti K.R., Ajija W.C.**
Tatyasaheb Kore College of Pharmacy, Warananagar-416113, Maharashtra, India.
***Corresponding author's E-mail:** mc_mahanthesh@rediffmail.com

Received: 08-01-2020; **Revised:** 24-02-2020; **Accepted:** 02-03-2020.

ABSTRACT

The natural pigment or colorant in the cosmetics, are inconceivable in demand since, historical time till day. The colors that add to the shade of the lipstick, are unsafe to people on utilization can bring about sensitivity, sickness, dermatitis, and drying of the lips. The usage of natural dyes and pigments, increase more importance in food and textile industries because of their non toxic and eco friendly characteristics. Coloring pigments is obtained from petals of *Rosa rubiginosa*, flower of *Bougainvillea spectabilis*. *Beta vulgaris* (Beetroot) and flower of *Crocus sativus*.(F1 to F4) and were evaluated on the parameters such as melting point, breaking point, force of application, surface anomalies, aging stability, solubility, pH, skin irritation and perfume stability etc... The results are shown in tab.4 and prepared lipstick in fig.2 F1 to F4. The prepared lipstick formulations F1, F2 and F4 showed ideal properties like shining, spreading and smoothness of lips after application. Further studies through a detailed clinical trial may be suggested to ensure safety of these formulations. Hence from present investigation it was concluded that, formulated herbal lipstick having minimal and no side effects and thus showing maximum local effect on lips.

Keywords: Herbal cosmetics, lipstick, natural pigments, formulation evaluation

INTRODUCTION

With the beginning of the civilization, Herbal cosmetic also known as "natural cosmetics"., peoples (men and women) had the magnetic dip towards impressing others with their looks was reported[1]and there area number of wide range of herbal cosmetics products to satisfy your beauty regime, is very safe for the skin. The human beings have been using herbs for different purpose like food, medicine, beatifying with the advancement of science & technology was studied[2].

The phenomenon of herbals, nowadays becoming a full fledged, encircling both health and beauty care. The lips perhaps constitute the most sensitive part of our body and it is also very close to the nose and mouth. The great demand in both developing and developed countries[4], the demand of herbal medicines is increasing rapidly due to their lack of side effects was reported[5].

In another study, Natural pigment or color in biological system is one, that is synthesized and accumulated in, or extracted from living cells and natural dyes may be defined as chemicals which are obtained from vegetable and animal sources without chemical processing. The applied colour should be fast to sunlight, water washing and to action of mild acid and alkali. The different natural colorants are obtained from following categories is shown in the table 1[6-9].

The taking into consideration the importance of natural products, the present work was aimed at formulating and evaluating lipsticks containing only natural ingredients. The ingredients included in the study, extracts of the

Created by Checked by Approved by Authorized by

Manjappa *et al. Future Journal of Pharmaceutical Sciences* (2019) 5:10
https://doi.org/10.1186/s43094-019-0013-x

Future Journal of Pharmaceutical Sciences

RESEARCH Open Access

Ameliorated in vitro anticancer efficacy of methotrexate D-α-Tocopheryl polyethylene glycol 1000 succinate ester against breast cancer cells

Arehalli S. Manjappa*, Popat S. Kumbhar, Rohini Kasabe, Sonali K. Diwate and John I. Disouza

Abstract

Background: Methotrexate (MTX), a folate anti-metabolite, has been used widely in the treatment of plenty of malignancies. However, the clinical use is limited because of its poor water solubility (BCS class II drug), nonspecific distribution, drug resistance, short circulation half-life, and toxicity. The objective of the present research was to synthesize the ester prodrug of MTX with D-α-Tocopheryl polyethylene glycol 1000 succinate (TPGS) and characterize for in vitro anticancer efficacy.

Results: The FTIR and NMR results revealed the successful synthesis of the prodrug. The assay and saturation solubility of the prodrug is found to be 23 ± 2.5% and 6.7 ± 1.3 mg/mL (MTX equivalent) respectively. The CMC of the prodrug in distilled water at room temperature is found to be 36.9 ± 2.6 μg/mL. The prepared prodrug micelles showed a mean particle size of 166 ± 10 nm (PDI, 0.325 ± 0.09). Further, the TEM results confirmed the self-assembling character of the prodrug into micelles with a nearly spherical shape. The prodrug caused the significantly ($p < 0.01$) less hemolysis (16.8 ± 1.5%) when compared to plain MTX solution and significantly higher ($p < 0.01$) in vitro cytotoxicity, cell cycle arresting, and apoptosis against human breast cancer cells (MCF-7 and MDA-MB-231).

Conclusion: Our study results revealed the remarkable in vitro anticancer activity of MTX following its esterification with TPGS. However, further, in vivo studies are needed to prove its efficacy against different cancers.

Keywords: Methotrexate prodrug, TPGS, Cytotoxicity, Cell cycle analysis and apoptosis

Created by Checked by Approved by Authorized by

WORLD JOURNAL OF PHARMACEUTICAL RESEARCH
SJIF Impact Factor 8.074
Volume 8, Issue 9, 400-417. Review Article ISSN 2277– 7105

BIOLOGICAL ACTIVITIES OF *CASSIA OCCIDENTALIS* LINN: A SYSTEMATIC REVIEW

Mahanthesh M. C.*[1], Manjappa A. S.[2], Sherikar A. S.[3], Disouza J. I.[4] and Shinde M. V.[5]

Department of Pharmacognosy[1], Department of Pharmaceutics[2,4], Department of Pharmaceutical Chemistry[3,5]

Tatyasaheb Kore College of Pharmacy, Warananagar, 416 113, Maharashtra, India.

Article Received on
07 June 2019,

Revised on 27 June 2019,
Accepted on 17 July 2019,

DOI: 10.20959/wjpr20199-15430

***Corresponding Author**
Dr. Mahanthesh M. C.
Department of Pharmacognosy, Tatyasaheb Kore College of Pharmacy, Warananagar, 416 113,

ABSTRACT

Cassia occidentalis L. (Kasamardah), Negro coffee, Family leguminose, is an erect, perennial plant and have traditional practice, as well as wide Phytochemicals and having diverse biological activities, known to possess antiallergic, antibacterial, antidote for poison, blood purifier, antifungal, antidiabetic, anti-inflammatory, antimutagenic, psoriasis, melanoblast cell line leprosy and hepatoprotective activity. Chemicals including achrosin, aloeemodin, cassia occidentanol I, cassia occidentanol II, emodin, anthraquinones, anthrones, apigenin, aurantiobtusin, campesterol, cassiollin, chryso-obtusin, chrysophanic acid, chrysarobin, chrysophanol, chrysoeriol. The presented review

Created by | Checked by | Approved by | Authorized by

ejpmr, 2019,6(10), 373-384 SJIF Impact Factor 6.222

Sunita et al. EUROPEAN JOURNAL OF PHARMACEUTICAL AND MEDICAL RESEARCH European Journal of Pharmaceutical and Medical Research

www.ejpmr.com

Research Article
ISSN 2394-3211
EJPMR

COMPARATIVE STUDIES OF VARIOUS ADSORBENT CARRIERS FOR ENHANCING DISSOLUTION PROFILE OF KETOPROFEN

Shinde Sunita S.[1] and Kamble Sharad K.[2]

[1]Department of Pharmaceutics, Tatayasaheb Kore College of Pharmacy Warnanagar, Kolhapur Maharashtra, India.
[2]Department of Pharmaceutics Nootan College of Pharmacy Kavathe Mahankal, Sangli Maharashtra, India.

***Corresponding Author: Dr. Shinde Sunita S.**
Department of Pharmaceutics, Tatayasaheb Kore College of Pharmacy Warnanagar, Kolhapur Maharashtra, India.

Article Received on 24/07/2019 **Article Revised on 13/08/2019** **Article Accepted on 04/09/2019**

ABSTRACT
In recent times, a large number of studies concerning the improvement of the dissolution rate of poorly water-soluble drugs is focused on the application of various porous materials as the drug carriers. These materials have attracted the attention of researchers owing to their outstanding properties such as large surface area, high pore volumes, microporosity and possibility of surface functionalization. In the present study, the biopharmaceutical performance of porous adsorbents as a carrier for the poorly water soluble drug Ketoprofen was investigated. Ketoprofen loaded different adsorbents with high specific surface area were used like Neusilin, Sylysia, Fujicalin and Aerosil, and it was done by solvent evaporation method. It was noticed that porous structure is responsible for an amorphous state of the drug and thus the improvement of its dissolution rate. From this research work it can be concluded that although the porous carrier particles help to enhance dissolution rate, including stability studies.

Created by Checked by Approved by Authorized by

RESEARCH PAPERS

STUDIES ON SOLUBILITY ENHANCEMENT OF TELMISARTAN BY ADSORPTION METHOD

By

SHARAD KAMBLE * SUNITA SHINDE **

* Department of Pharmaceutics, Nootan College of Pharmacy, Kavathe Mahankal, Sangli, Maharashtra, India.
** Department of Pharmaceutics, Tatyasaheb Kore College of Pharmacy Warnanagar, Kolhapur, Maharashtra, India.

Date Received: 15/07/2019 Date Revised: 29/09/2019 Date Accepted: 26/11/2019

ABSTRACT

In this study precipitated form of Telmisartan was prepared by using Solvent evaporation technique and Spray drying technique. For this the author used adsorbents like Sylysia, Neusilin, and diluents like Lactose Monohydrate and Avicel. All these prepared batches were screened by performing Drug content, saturation solubility and dissolution study of the prepared batches. This obtained optimized batch, was further characterized by using the dissolution test, Differential Scanning Calorimetry (DSC), X-Ray powder Diffractometer (XRD), and USP Dissolution test apparatus.

Keywords: Telmisartan, Solvent Evaporation Method, Spray Drying Technique, Adsorbent Carrier like Neusilin, and Sylysia, Diluents Like Lactose Monohydrate and Avicel, Dissolution Rate.

INTRODUCTION

Low aqueous solubility is the major problem encountered with formulation development of new chemical entities as well as for the generic development. More than 40% of NCEs (new chemical entities) developed in pharmaceutical industries are practically insoluble in water. Solubility is a major challenge for formulation scientist. Solubility occurs under dynamic equilibrium, which means drug is considered highly soluble, when the highest dose Saturated solutions of ionic compounds of relatively low strength is soluble in 250mL or less of aqueous media over the pH range of 1 to 7.5. Solubility is sometimes described by solubility constants. This is a case of equilibrium process. It describes the balance between dissolved ions from salt and undissolved salt. Similar to other equilibrium constants, temperature affects the numerical value of solubility

European Journal of Biomedical and Pharmaceutical Sciences
(An ISO 9001:2015 Certified International Journal)
An International Peer Reviewed Journal for Pharma, Medical & Biological Science
An Official Publication of Society for Advance Healthcare Research (Reg. No. : 01/01/01/31674/16)
European Journal of Biomedical and Pharmaceutical Sciences (EJBPS) has indexed w
ISSN 2349-8870
IMPACT FACTOR : 6.044
ICV - 77.3
FRI, MAY 19 2023 | 7:17:42 AM
Login | Register

Abstract

QBD BY DESIGN APPROACH FOR DEVELOPMENT AND EVALUATION OF SELF EMULSIFYING DRUG DELIVERY SYSTEM OF NITROFURANTOIN

Sujitkumar K. Devkar, Vinit R. Sulakhe*, Sagar L. Pol, Kiran S. Patil, Sachin S. Mali

ABSTRACT

The Objective of present work is to develop a Solid Self Emulsifying Drug Delivery System (S-SMEDS) of poorly water soluble drug Nitrofurantoin (NFT). Nitrofurantoin is antibiotic or antimicrobial drug belongs to BCS Class II drug, having half-life 20 minutes. For formulation; solubility of NFT was determined in oil, surfactant and co-surfactant. The final components of micro-emulsion were found to be Cinnamon oil, Tween 20 as surfactant and PEG400 as a co-surfactant. Pseudoternary phase diagram NFT loaded micro-emulsion were prepared and optimized by using design of Experiments (DOE). By considering 2 factor globule size and emulsification time the 9 formulations were prepared. Batch No. 5 was selected on the basis of optimization of globule size 0.492 and emulsification time 75sec. According to the design of experiments, probability plots, pounter plots, pormal probability, Response surface plot 3D response curve it was observed that with increase in ratio of surfactant to co-surfactant and emulsification time leads to decrease in particle size. Formulated NFT SMEDDS was characterized for the various tests followed by formulated liquid microemulsions was converted into solid by Adsorption technique by using Neusilin US2. Solid SMEDDS formulation was tested for various test including FTIR, DSC study and XRD study. Results showed that drug releases from S-

Created by	Checked by	Approved by	Authorized by

Academic Year 2018-19

Journal Article

Evaluation of Lactobacillus plantarum growth in milk of Indian buffalo breeds based on its physico-chemical content [2019]

Abhinandan Patil(D.Y. Patil University, Centre for Interdisciplinary Research, Kolhapur (India)) E-mail:shpawar1946@gmail.com;abhisir5@gmail.com; John Disouza(D.Y. Patil University, Centre for Interdisciplinary Research, Kolhapur (India)); Shivaji Pawar(Sinhgad Institutes, Solapur (India). Centre for Research and Technology Development);

The study reports the physicochemical content of raw and pasteurization milk from Bhadawari, Mehsana and Nagpuri Indian buffalo breeds. The study demonstrated the protein, fat, lactose, total solid content, and percentage of casein of the raw milk for Nagpuri, Mehsana and Bhadawari as 4.5+-0.51, 5.4+-0.62, 4.8+-0.41, 7.2+-0.32, 6.1+-0.66, 7.0+-0.84, 5.4+-0.65, 6.2+-0.65, 5.1+-0.54, 17.2+-1.21, 18.8+-1.54, 18.1+-1.22, 10.8+-1.20, 11.4+-1.02 and 11.5+-0.98 respectively. The study further extended to determine the growth profile of Lactobacillus plantarum (LAB) isolated from sheep milk, in the milk of different buffalo Indian breeds. The isolate was identified as a LAB by 16S rRNA sequencing technique. These LAB thrived in the different milk were characterized by colony forming unit (CFU). The study finally revealed that CFU count was found significantly higher (P LT 0.05) in Mehsana milk as comparative to other milk treated samples of Nagpuri and Bhadawari buffalos.

From the journal
Buffalo Bulletin
ISSN : 0125-6726

Bibliographic information

Language:	English
Type:	Summary
In AGRIS since:	2020
Extent:	345-352
All titles:	"Evaluation of Lactobacillus plantarum growth in milk of Indian buffalo breeds based on its physico-chemical content"@eng
Other:	"Summary (En)"

AGROVOC Keywords

- food preservation
- Lactobacillus
- food composition
- breeds (animals)
- milk
- India
- food processing
- chemicophysical properties
- cell counting

Created by	Checked by	Approved by	Authorized by

International Journal of Applied Pharmaceutics
ISSN: 0975-7058

Int J App Pharm, Vol 11, Issue 3, 2019, 43-48 Original Article

DESIGN AND EVALUATION OF GUANFACINE EXTENDED RELEASE FORMULATION

*SANJEEVANI DESAI[1], DURGACHARAN BHAGWAT[2], SUNITA SHINDE[1], JOHN DISOUZA[1]

[1]Tatyasaheb Kore College of Pharmacy, Warananagar, 416113, Maharashtra, India. [2]Bharati Vidyapeeth College of Pharmacy, Kolhapur, Maharashtra, India.
Email: srdesai.tkcp@gmail.com

Received: 31 Oct 2018, Revised and Accepted: 30 Jan 2019

ABSTRACT

Objective: The present study was aimed to develop of the Guanfacine Hydrochloride Extended-release tablets for the treatment of Attention Deficit Hyperactivity Disorder (ADHD). The dosage regimen of Guanfacine Hydrochloride is 4 mg at every 6 h. The concentration of Guanfacine in plasma is fluctuating. Hence, to control the plasma fluctuation and to avoid toxicity problem, Guanfacine Hydrochloride was chosen as a drug with an aim to develop an extended release system for 20 to 24 h.

Methods: The design of the system was based on the use of pH-dependent polymer (Hydroxypropyl Methyl Cellulose), pH-independent polymer (Eudragit L 100-55), along with microenvironment modifiers such as organic acid (Fumaric acid) were used in the formulation. Drug-excipient compatibility was studied by FTIR. Before compression, the granules were evaluated for precompression parameters such as bulk density, tapped density, an angle of repose, compressibility index and Hausner's ratio. After compression, evaluation tests of tablets such as general appearance, hardness, thickness, weight variation, friability, content uniformity, *in vitro* release studies and stability studies were performed.

Results: Out of 9 formulations, the drug release was found to be within the innovator formulation F9. The stability study of formulation F9 revealed there was no significant change in physical and chemical properties of drug stored at 40 °C/75 % RH, 30 °C/65 % RH, 25 °C/60 % RH for 2 mo.

Conclusion: Optimized formulation batch F9 showed highest F2 value which indicates similarity with innovator product. The study indicates that Guanfacine Hydrochloride Extended-release tablet was successfully developed.

Keywords: Extended-release, Solubility, pH-dependent polymer, *In vitro* study

DOI: http://dx.doi.org/10.22159/ijap.2019v11i3.30578

Created by Checked by Approved by Authorized by

Kumbhar et al., IJPSR, 2019; Vol. 10(2): 546-554. E-ISSN: 0975-8232; P-ISSN: 2320-5148

IJPSR (2019), Volume 10, Issue 2 **(Research Article)**

INTERNATIONAL JOURNAL OF PHARMACEUTICAL SCIENCES AND RESEARCH

Received on 26 May 2018; received in revised form, 31 July 2018; accepted, 07 August 2018; published 01 February 2019

SIMVASTATIN LOADED NANO MIXED MICELLES: AN APPROACH TO TREAT HORMONE DEPENDENT CARCINOMAS

P. S. Kumbhar [*1], N. J. Patil [1], A. B. Patil [1], U. Sambamoorthy [2], J. I. Disouza [1] and A. S. Manjappa [1]

Department of Pharmaceutics, Tatyasaheb Kore College of Pharmacy [1], Warananagar, Panhala, Kolhapur - 416113, Maharashtra, India.
NRI College of Pharmacy [2], Pothavarappadu, Agiripalli, Krishna - 522212, Andhra Pradesh, India.

Keywords:

Simvastatin, Single copolymer micelles, Mixed micelles, *In-vitro* hemolysis, MTT assay

Correspondence to Author:
Mr. Popat S. Kumbhar

Assistant Professor,
Department of Pharmaceutics,
Tatyasaheb Kore College of Pharmacy,
Warananagar, Panhala, Kolhapur - 416113, Maharashtra, India.

E-mail: pskumbhar1.tkcp@gmail.com

ABSTRACT: The main objective of the present research was to develop mixed micelles using two biocompatible copolymers, D-α-tocopheryl polyethylene-glycol 1000 succinate (TPGS) and poloxamer 188 (P188) to improve the aqueous solubility and targeting efficacy of Simvastatin (SMV) against a variety of hormone-dependent cancers. A solvent evaporation technique prepared the plain/single copolymer micelles (SCMs) and mixed micelles (MMs). The prepared SCMs and MMs were characterized for critical micelle concentration (CMC), SMV content, particle size by dynamic light scattering (DLS), surface morphology by transmission electron microscopy (TEM), *in-vitro* SMV release and hemolysis. The SCMs and MMs showed mean particle size of 98 ± 5 nm and 129 ± 6 nm, respectively. SCMs showed SMV loading of 79.7 ± 5.6% while MMs exhibited improved SMV loading of 94.5 ± 6.5. The developed MMs system showed significantly lower CMC (3.5 fold less) than SCMs revealing their higher *in-vivo* stability. Moreover, SCMs and MMs exhibited zero order release profile, lower hemolytic behavior (<5% of hemolysis), when compared to plain SMV solution. *The in-vitro* cytotoxicity assay was conducted on MCF-7 (human breast cancer) cell line. Cytotoxicity studies revealed significantly improved antitumor activity of MMs when compared to SCMs and plain SMV after both incubation time points (24 and 48 h). In conclusion, the developed

Created by Checked by Approved by Authorized by

Polymeric Mixed Micelles: Improving the Anticancer Efficacy of Single-Copolymer Micelles

Arehalli S. Manjappa,[a,*] Popat S. Kumbhar,[a] Ajit B. Patil,[a] John I. Disouza,[a] & Vandana B. Patravale[b]

[a]Tatyasaheb Kore College of Pharmacy, Warananagar, Tal: Panhala, Dist: Kolhapur, Maharashtra, India; [b]Department of Pharmaceutical Sciences and Technology, Institute of Chemical Technology, Nathalal Parekh Marg, Matunga, Mumbai, Maharashtra, India

*Address all correspondence to: Dr. Arehalli S. Manjappa, Assistant Professor, Department of Pharmaceutics, Tatyasaheb Kore College of Pharmacy, Warananagar, Tal: Panhala, Dist: Kolhapur, Maharashtra, India, 416113; Tel.: (02328) 223526; Fax: (02328) 223501, E-mail: manju_as82@yahoo.co.in

ABSTRACT: Mixed micelles self-assembled from two or more dissimilar block copolymers provide a direct and convenient approach to improved drug delivery. The present review is focused on mixed micelles (prepared from block copolymers only) for various drug delivery applications along with their merits over single-copolymer micelles. Presented are the physi-

ELSEVIER

Small Ruminant Research
Volume 170, January 2019, Pages 19-25

Shelf life stability of encapsulated lactic acid bacteria isolated from sheep milk thrived in different milk as natural media

Abhinandan Patil [a], John Disouza [a], Shivaji Pawar [a b]

[a] Centre for Interdisciplinary Research, D. Y. Patil University, Kolhapur, MS, India
[b] Centre for Research and Technology Development, Sinhgad Institutes, Solapur, MS, India

Received 27 October 2017, Revised 20 September 2018, Accepted 22 September 2018, Available online 28 September 2018, Version of Record 20 November 2018.

Created by Checked by Approved by Authorized by

Gudise et al. Future Journal of Pharmaceutical Sciences (2019) 5:13
https://doi.org/10.1186/s43094-019-0014-9

Future Journal of Pharmaceutical Sciences

RESEARCH Open Access

In vitro free radical scavenging and antidiabetic activity of aqueous and ethanolic leaf extracts: a comparative evaluation of *Argyreia pierreana* and *Matelea denticulata*

Venkataiah Gudise[1*], Bimalendu Chowdhury[2] and Arehalli S. Manjappa[3]

Abstract

Background: Oxidation is believed to play a vital role in the pathogenesis of diabetes mellitus by lipid peroxidation; DNA and protein damage leads to the development of vascular complications like coronary heart disease, stroke, neuropathy, retinopathy, and nephropathy. The herbal preparations are complementary and alternative medicines to allopathic drugs which are believed to cause adverse events. Therefore, the current study was aimed to identify the novel plants, which belong to the genera *Argyreia* (*Argyreia pierreana* (AP)) and *Matelea* (*Matelea denticulata* (MD)), and assess the aqueous and ethanolic leaf extracts for in vitro antioxidant and antidiabetic potential by DPPH, OH', superoxide, and glucose uptake and gene expression (GLUT-4 and PPARγ) studies using the L-6 cell line respectively.

Results: The preliminary scrutiny revealed the presence of polyphenols, flavonoids, terpenoids, steroids, tannins, alkaloids, and glycosides. The total phenolic and flavonoid contents of ethanolic extracts were found higher than those of aqueous extracts. The ethanolic extracts exhibited the superior antioxidant capacity when compared with aqueous extracts. However, the ethanolic extract of MD was shown superlative glucose uptake activity (72.54%) over control (0.037%) and GLUT-4 and PPARγ gene expressions (1.17 and 1.20) in term of folds respectively over cell control (1.00).

Conclusion: The ethanolic leaf extracts of both plants showed significant in vitro antioxidant and antidiabetic activities compare to aqueous extracts. The *Matelea denticulata* ethanolic leaf extract exhibited superior activity. This superior activity might be due to their higher phenolic and flavonoid content. However, further approaches are needed to define these activities.

Keywords: *Argyreia pierreana*, *Matelea denticulata*, Antiradical activity, Antidiabetic activity, GLUT-4 and PPARγ expression study

Background

Traditional herbal medicines have shaped the basis of human health care, and further research will improve global health [1, 2]. Presently, about 80% of the world population (according to WHO) uses herbal drugs for some aspects of primary health care. Globally, the use of medicinal plants predates antibiotics and other contemporary drugs [3, 4]. In addition, many culinary herbs and spices were tested for their biological activities in Alzheimer's disease management and other chronic diseases [5, 6].

The natural antioxidant defence mechanism, in all human and other aerobic organisms, prevents the oxidative damage. Since the natural antioxidant defence mechanism is inadequate on its own, the nutritional consumption of antioxidants is suggested [7, 8]. Currently, synthetic antioxidants are replaced by natural antioxidants as the former are reported to have carcinogenic properties. Plants are the

* Correspondence: venkatpharma22@gmail.com
[1]Department of Pharmacology, SSJ College of Pharmacy, Vattinagulapally, Gandipet, Hyderabad, Telangana State 500075, India
Full list of author information is available at the end of the article

Created by Checked by Approved by Authorized by

Drug Dev Ind Pharm. 2019 Mar;45(3):474-484. doi: 10.1080/03639045.2018.1562461. Epub 2019 Jan 1.

Unravelling the anticancer efficacy of 10-oxo-7-epidocetaxel: in vitro and in vivo results

Arehalli S Manjappa [1 2 3], Rayasa S Ramachandra Murthy [2]

Affiliations – collapse

Affiliations

1 a Department of Pharmaceutcs , Tatyasaheb Kore College of Pharmacy , Kolhapur , India.
2 b TIFAC Centre of Relevance and Excellence in New Drug Delivery Systems, G.H. Patel Pharmacy Building, Pharmacy Department , The Maharaja Sayajirao University of Baroda , Vadodara , India.
3 c Advanced Centre for Treatment Research and Education in Cancer, Tata Memorial Centre , Kharghar , India.

PMID: 30599774 DOI: 10.1080/03639045.2018.1562461

Abstract

Purpose: To prepare 7-epidocetaxel (7ED) and 10-oxo-7-epidocetaxel (10-O-7ED) formulations as like marketed Taxotere® (TXT) injection and to screen them for in vitro and in vivo anticancer efficacy including their in vivo toxicity behavior.

Methods: The 7ED and 10-O-7ED formulations were screened for in vitro anti-proliferative, anti-metastatic and cell cycle arresting behaviors. Further, in vivo acute toxicity of TXT injection containing 10% of 7ED and 10-O-7ED separately and the therapeutic study of 10-O-7ED alone were studied in B16F10 experimental metastasis mouse model.

Created by Checked by Approved by Authorized by

Current Pharma Research
ISSN-2230-7842
CODEN-CPRUE6
www.jcpronline.in/

Research Article

Design and development of aliphatic amino acid-cholesterol biomolecular scaffold as anticancer conjugates.

Mayuresh Shinde[1*], Shitalkumar Patil[2], Manish Bhatia[3], Dhanashri Patil[4], Sanjay Mishra[4]

[1]Department of Pharmaceutical Chemistry, Tatyasaheb Kore College of Pharmacy, Warananagar, 416113, Maharashtra, India.

[2]Ashokrao Mane College of Pharmacy, Peth Vadgaon, 416112, Maharashtra, India.

[3]Department of Pharmaceutical Chemistry, Bharati Vidyapeeth College of Pharmacy, Kolhapur, 416013, Maharashtra, India.

[4]KAHER's Dr. Prabhakar Kore Basic Science and Research Center, Belagavi, 590010, Karnataka, India.

Received 22 March 2019; received in revised form 18 June 2019; accepted 20 June 2019

***Corresponding author E-mail address:** *mvshinde.tkcp@gmail.com*

ABSTRACT

We have developed lipoprotein macromolecular motif to target multiple type of cancerous cells. These scaffold moieties linked with anticancer agents for targeting release at specific site. Biomolecular network increases cellular penetration, specificity and efficacy. Molecular motifs containing these agents are readily degradable by enzymatic cleavage. Structural functionalities of these modified molecules generate response against cancerous cells. Lipids and protein conjugates improve drug delivery towards target tissues. Bioactive lipoprotein exerts inhibitory effect for progressing tumor tissues. Lipid-protein bioconjugates interact with tumor tissue proteins selectively for reducing toxicity of antitumor agents. Complexation of cholesterol with bioactive aliphatic amino acid yields complex scaffold possessing anticancer activity. Reaction was conducted using dicyclohexyl carbodiimide (DCC) and 4-dimethylamino pyridine (DMAP) in pyridine solvent. Developed conjugates were characterized by using TLC, IR, NMR and HRMS studies. Conjugates were screened for anticancer activity by using MTT assay for human lung cancer (A549), liver hepatocellular carcinoma (HepG2), Human colon cancer (HT-29), Breast carcinoma (MCF-7), Glioblastoma cell lines (U87 MG).All molecular motifs exhibited remarkable antitumor activity against specified cell lines. Non-toxicity towards normal mouse fibroblast (L-929) is the promising feature of synthetic biomolecular scaffold which indicates

Original Contribution | Published: 03 November 2018

D-Gluconic acid–based methotrexate prodrug–loaded mixed micelles composed of MDR reversing copolymer: in vitro and in vivo results

Popat S. Kumbhar, Swapnil Birange, Mahesh Atavale, John I. Disouza & Arehalli S. Manjappa

Colloid and Polymer Science **296**, 1971–1981 (2018) | Cite this article

364 Accesses | **11** Citations | Metrics

Abstract

The main aim of the present research was to synthesize carbohydrate (D-gluconic acid, DGA) prodrug of methotrexate (MTX) to improve the aqueous solubility and to develop mixed micelles (MMs) composed of D-α-tocopheryl poly (ethylene glycol) 1000 succinate (TPGS) as an MDR reversing copolymer and poloxamer 407 (P-407) to deliver the MTX prodrug to tumor tissue via enhanced permeability and retention (EPR) mechanism. MTX-DGA conjugate (MDGAC) was synthesized using Steglich esterification reaction. The MDGAC-loaded TPGS and P-407 MMs (MDGAC-TP MMs) were prepared by solvent evaporation technique. MDGAC-TP MMs showed low critical micelle concentration, high drug loading, sustained release profile, lower hemolytic behavior, higher in vitro cytotoxicity against the human carcinoma cell lines KB and MDR KBv, and significantly reduced in vivo toxicity. Therefore, the developed MDGAC-TP MMs could be a promising and effective approach for

Created by | Checked by | Approved by | Authorized by

ISSN: 0976-3031

Available Online at http://www.recentscientific.com

CODEN: IJRSFP (USA)

International Journal of Recent Scientific Research
Vol. 9, Issue, 12(C), pp. 29951-29957, December, 2018

International Journal of Recent Scientific Research

DOI: 10.24327/IJRSR

Research Article

FORMULATION DEVELOPMENT AND EVALUATION OF ANTI-INFLAMMATORY POTENTIAL OF TOPICAL TENOXICAM NANOGEL ON ANIMAL MODEL

Chopade Swapnil[1]., Khabade Sheeba[1]., Patil Ajit[3] and Powar Sayali[2]

[1]Department of Pharmaceutics, Tatyasaheb Kore College of Pharmacy, Warananagar, Tal- Panhala, Dist- Kolhapur, 416113, M.S., INDIA
[2]Department of Pharmaceutical Chemistry, Tatyasaheb Kore College of Pharmacy, Warananagar, Tal- Panhala, Dist- Kolhapur, 416113, M.S., INDIA
[3]Department of Pharmacology, Tatyasaheb Kore College of Pharmacy, Warananagar, Tal- Panhala, Dist- Kolhapur, 416113, M.S., INDIA

DOI: http://dx.doi.org/10.24327/ijrsr.2018.0912.2967

ARTICLE INFO

Article History:

Received 6th September, 2018

ABSTRACT

Background: The present study is to increase the transport of tenoxicam through transdermal route, and also to present it as a possible replacement for the oral NSAID therapy for rheumatoid arthritis. **Objective:** The present investigation was to develop a tenoxicam nanogel with reduced particle size

Created by | Checked by | Approved by | Authorized by

ISSN 2395-3411 Available online at www.ijpacr.com 99

Research Article

DEVELOPMENT AND VALIDATION OF A SIMPLE UV SPECTROPHOTOMETRIC AND FLUOROMETRIC METHOD FOR THE DETERMINATION OF VALACYCLOVIR HYDROCHLORIDE BOTH IN BULK AND MARKETED DOSAGE FORM

PS. Kumbhar*, AC. Rukade, PS. Sawant, AT. Gaikwad, AA. Patil, CM. Jamkhandi, MV. Shinde, AS. Manjappa and JI. Disouza

Tatyasaheb Kore College of Pharmacy, Warananagar, Dist: Kolhapur, Maharashtra, India.

ABSTRACT

Introduction: Several analytical methods such as high performance liquid chromatography (HPLC), Uv-spectrophotometry and colorimetry have been reported for quantitative estimation of Valacyclovir hydrochloride in bulk and pharmaceutical formulations. The aim of this study was to develop simple, easily accessible and economic UV spectrophotometric and newer fluorometric methods. **Methods:** A simple, rapid, specific and cost effective spectrophotometric method using different solvents like methanol (Method A), ethanol (Method B), water (Method C) and phosphate buffer of pH 7.4 (Method D) and fluorometric method using solvents such as methanol (Method A), water (Method B) and 0.1N HCl (Method C) has been developed to determine the Valacyclovir hydrochloride content in bulk and pharmaceutical dosage formulations. **Results:** The calibration graph are linear and obeys beer's law in the concentration range of 2-20 µg/mL for all four spectrophotometric methods with a correlation coefficient (r^2) of 0.998, 0.996, 0.999 and 0.997, respectively while the calibration graph are linear in the concentration range of 1-10 µg/mL for all three fluorometric methods with a correlation coefficient (r^2) of 0.998, 0.999 and 0.999, respectively. The accuracy and precision of the methods were evaluated based on the intra-day and inter-day variations. The accuracy of the methods was further confirmed by standard addition procedure. The other characteristics such as limit of detection (LOD) and limit of quantification (LOQ) values are also reported. **Conclusion:** The obtained results proved that the developed methods can be employed for the routine analysis of

Created by Checked by Approved by Authorized by

Quality by Design-based Formulation and Evaluation of Fast Dissolving Tablet of Aspirin

PDF

Published: May 13, 2018

DOI: https://doi.org/10.22377/ajp.v12i01.2046

Dr. S. R. Desai

Abstract

Aim: The focus of the current study was to develop fast dissolving tablet (FDT) of aspirin using quality by design (QbD) approach. QbD was applied for better understanding the process and to enhance design space, using quality target product profile, critical quality attributes, and risk assessment. The aim of the project is to achieve early onset of aspirin by FDT. Materials and Methods: FDT of aspirin was developed by 32 factorial using Boxâ€“Behnken design. In factorial design we have selected two variables povidone and crospovidone at three levels. The response surface plots were generated. Ultraviolet (UV), Fourier-transform infrared, differential scanning calorimeter (DSC), and X-ray diffraction (XRD) analysis have been done for pre-formulation and post-formulation evaluations. The tablets were prepared by direct compression method. Results and Discussions: The Î»max was confirmed at 275 nm by UV spectroscopy. In compatibility study IR, it was observed that the drug was in pure form and there were no major

Created by | Checked by | Approved by | Authorized by

Article

Mixed Micelles as Nano Polymer Therapeutics of Docetaxel: Increased In vitro Cytotoxicity and Decreased In vivo Toxicity

June 2017 · Current Drug Delivery 15(4)
DOI:10.2174/1567201814666170621113637

Authors:

Arehalli S Manjappa
Shree Yashwant Shikshan Prasarak Man…

Popat S. Kumbhar
Tatyasaheb Kore College of Pharmacy, …

Prajakta S Khopade
Tatyasaheb Kore College of Pharmacy, …

Ajit B Patil

Show all 5 authors

Download citation Copy link

Created by	Checked by	Approved by	Authorized by

International Journal of Current Pharmaceutical Research
ISSN: 0975-7066

Int J Curr Pharm Res, Vol 10, Issue 1, 13-19

Original Article

DEVELOPMENT OF SPECTROPHOTOMETRIC AND FLUOROMETRIC METHODS FOR ESTIMATION OF DARUNAVIR USING QBD APPROACH

R. D. GODAMBE, J. I. DISOUZA, C. M. JAMKHANDI*, P. S. KUMBHAR

Tatyasaheb Kore College of Pharmacy Warananagar, Dist: Kolhapur (MS) India
Email: cmjamakhandi@gmail.com

Received: 22 Oct 2017, Revised and Accepted: 12 Dec 2017

ABSTRACT

Objective: The main objective of the present study is to develop newer simple, precise spectrophotometric and fluorometric methods of estimation for Darunavir using coupling agent *O*-pthaladehyde.

Methods: The experimental work was designed for both spectroscopic and fluorometric method development and validation. The method is based on formation complex of Darunavir with *O*-pthaladehyde. QbD approach was applied by varying different parameters. These parameters were designed into Ishikawa diagram.

Results: The complex Darunavir-Phthalaldehyde in methanol with 0.1 N HCl showed linearity for both spectrophotometric and fluorometric methods. The calibration curve by spectrophotometry is linear in concentration range of 2-22 µg/ml with regression coefficient (R^2) = 0.998 at 355 nm and for fluorometry it is linear in concentration range of 0.5-5.0 ng/ml with regression coefficient (R2) = 0.999. This method was found to be rugged and robust in different testing criteria with % RSD less than 2. The limit of detection and limit of quantification was found to be 0.2 µg/ml and 0.8 µg/ml for a spectrophotometric method and 0.12 µg/ml and 0.43 µg/ml for fluorometric method respectively.

Conclusion: Both methods were found to be precise with % RSD of less than 2. The % recovery of the spectrophotometric and fluorometric methods was found to be 101.04 %, 98.15 % respectively. In this way, the results of all validation parameter were within the limits as per International Conference on Harmonization guideline.

Keywords: Spectrophotometry, Fluorometry, Darunavir, Condensation reaction

Patil et al., IJPSR, 2018; Vol. 9(4): 1594-1599. E-ISSN: 0975-8232; P-ISSN: 2320-5148

IJPSR (2018), Volume 9, Issue 4 **(Research Article)**

INTERNATIONAL JOURNAL OF PHARMACEUTICAL SCIENCES AND RESEARCH

Received on 21 June, 2017; received in revised form, 05 September, 2017; accepted, 17 September, 2017; published 01 April, 2018

GRANULES OF UNISTRAIN *LACTOBACILLUS* AS NUTRACEUTICAL ANTIOXIDANT AGENT

Abhinandan Patil [*1], Shivaji Pawar [1,2] and John Disouza[1]

D. Y. Patil University [1], Centre for Interdisciplinary Research, Kolhapur - 416006, Maharashtra India.
Centre for Research and Technology Development [2], Sinhgad Institutes, Solapur - 413255, Maharashtra, India.

Keywords:

Probiotics, *Lactobacillus acidophilus*, Antioxidant

Correspondence to Author:
Abhinandan Patil

Ph.D. Student,
Department of "Centre for Interdisciplinary Research"
D. Y. Patil University, Kolhapur - 416006, Maharashtra India.

E-mail: abhisir5@gmail.com

ABSTRACT: The present study was conducted with the aim to prepare probiotics *Lactobacillus acidophilus* (*L. acidophilus*) granules which are stable at room temperature. *Lactobacillus acidophilus* 2285 probiotics was obtained from the N.C.I.M (National Collection of Industrial Microorganism), Pune. The formation of the semi-solid mass occurred after the further incubation at 34 °C from range (33 °C to 37 °C) in an incubator kept for the less than 24 hour time duration. This mass was homogenized and converted into granule formulation. The viability of the granule formulation was achieved with a maximum viable cell count after 24 hours of incubation in de Man, Rogosa, and Sharpe (M.R.S) agar media. Spray dried and tray dried powder of the probiotics is used for granulation, these drying methods served as a cheap alternative to the expensive freeze-drying procedure. The selected strain of *L. acidophilus* NCIM 2285 assessed for antioxidant activity. The antioxidant activity of *L. acidophilus* was demonstrated by *in-vitro* test using 2, 2--diphenyl-1-picrylhydrazyl free radical scavenging assay. The results showed that intact cells and cell-free extract of two formulations exhibited obviously higher antioxidative activity in scavenging DPPH radical than standard *L. rhamnose GG,* which was shown to have an

Created by Checked by Approved by Authorized by

Books

Book

Pharmaceutical Product Development

Insights Into Pharmaceutical Processes, Management and Regulatory Affairs

Edited By Vandana B. Patravale, John I. Disouza, Maharukh Rustomjee

Edition	1st Edition
First Published	2016
eBook Published	9 March 2016
Pub. Location	Boca Raton
Imprint	CRC Press
DOI	https://doi.org/10.1201/b19579 (https://doi.org/10.1201/b19579)
Pages	447
eBook ISBN	9780429188817
Subjects	Bioscience, Engineering & Technology

Citation

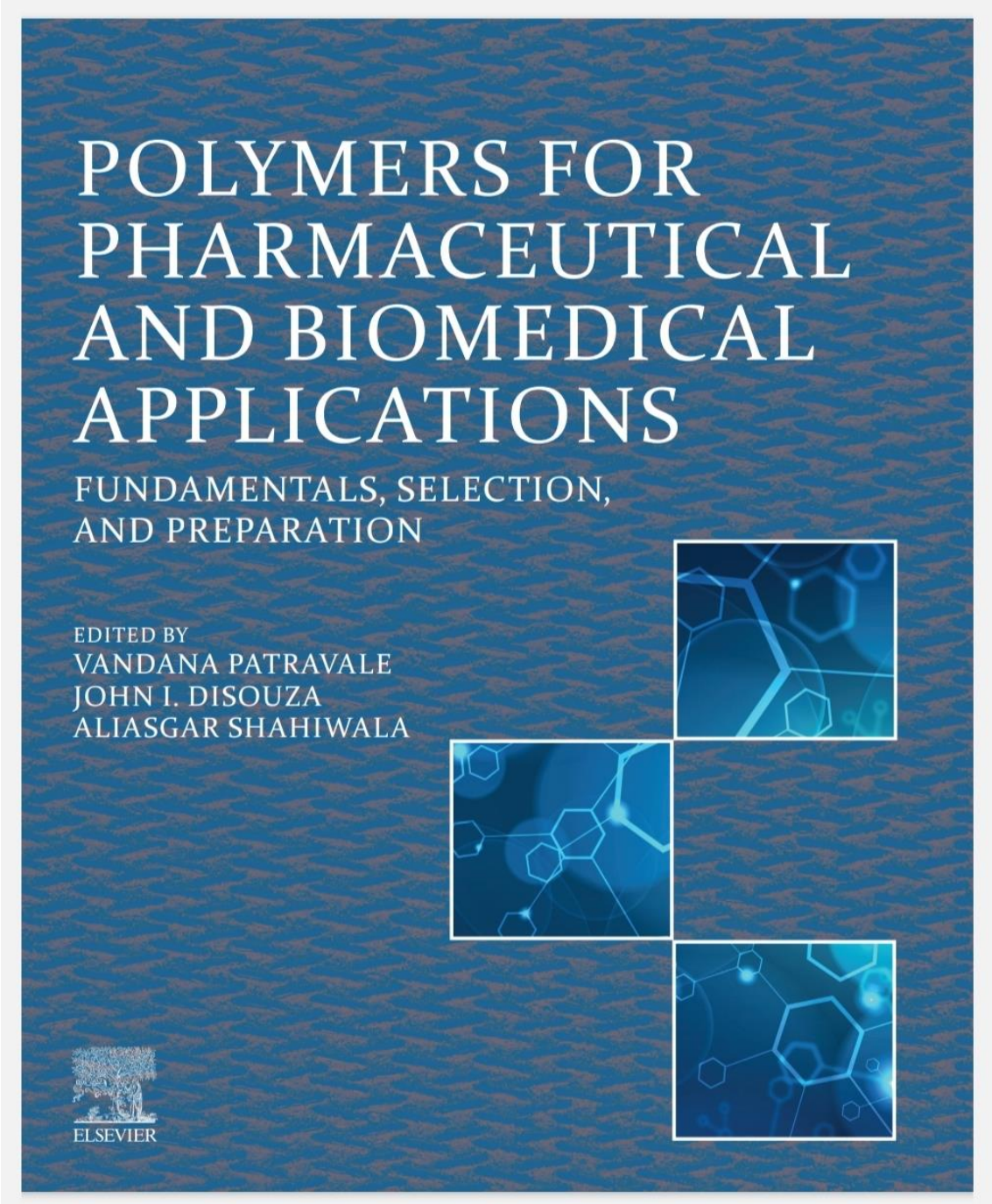
ABSTRACT

TABLE OF CONTENTS

(https://www.taylorfrancis.com)

Policies

Created by Checked by Approved by Authorized by



Created by | Checked by | Approved by | Authorized by

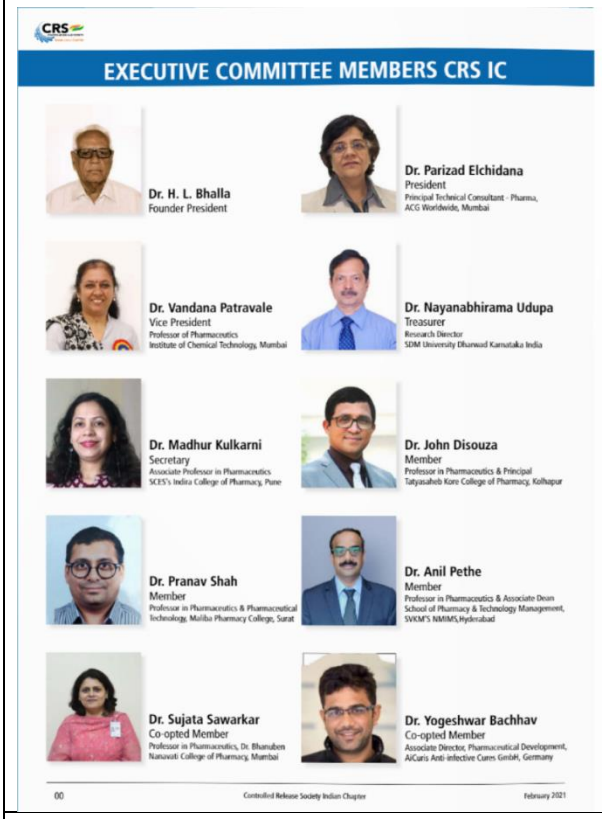
Number of workshops/seminars/conference including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

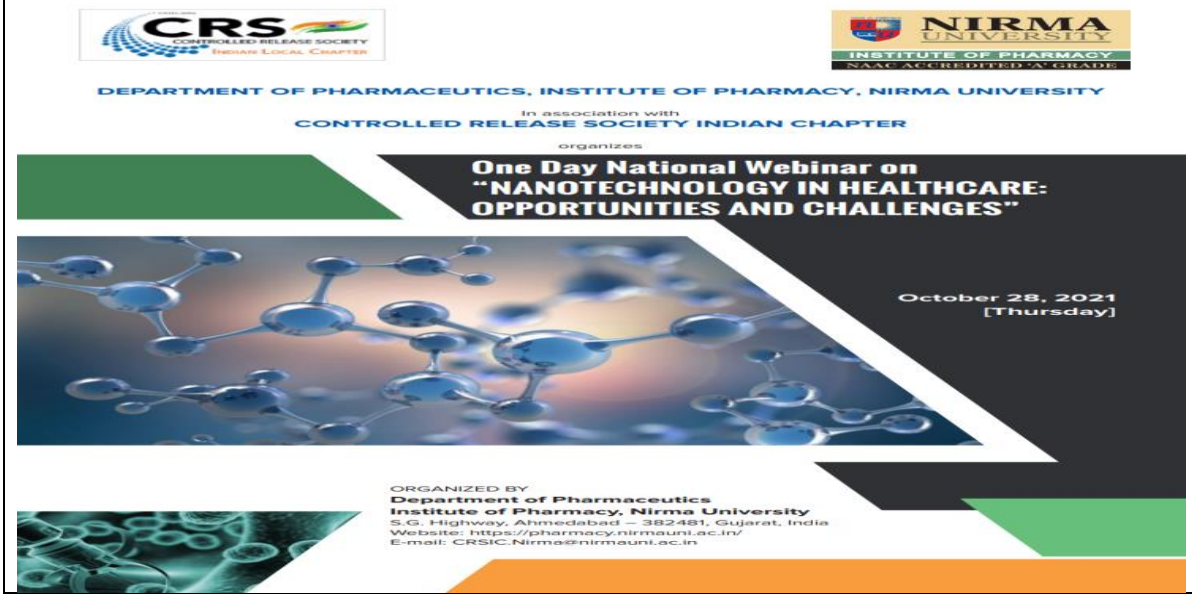
Year	2021-22	2020-21	2019-20	2018-19	2017-18
Number	06	04	01	--	01

Created by Checked by Approved by Authorized by

Academic Year 2021-22

"Nanotechnology in Healthcare: Opportunities and Challenges



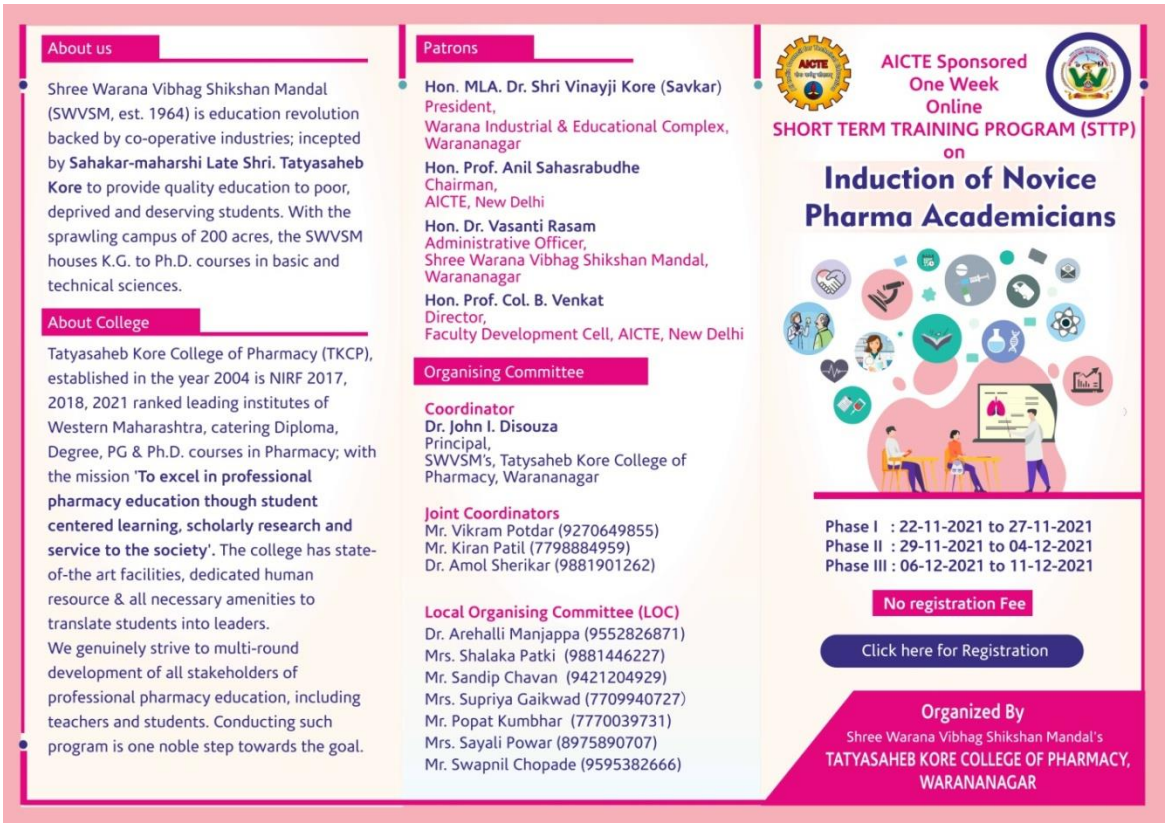


Created by | Checked by | Approved by | Authorized by

AICTE Sponsored One Week Online Short-Term Training Program (STTP) on Induction of Novice Pharma Academicians

Manuscript writing under AICTE Sponsored One Week Online Short Term Training Program (STTP) on Induction of Novice Pharma Academicians

Created by	Checked by	Approved by	Authorized by



AICTE-ISTE Sponsored One Week Online Induction/Refresher Program on Leveraging Academic Researchers on Developing Diagnostic Kits, Vaccines and Drug Product for Improved Therapy Management against Deadly Viruses: Lesson Learnt from COVID-19"

Created by	Checked by	Approved by	Authorized by

Created by	Checked by	Approved by	Authorized by

One day National Seminar on Advances in Cancer Diagnostic and Therapeutics

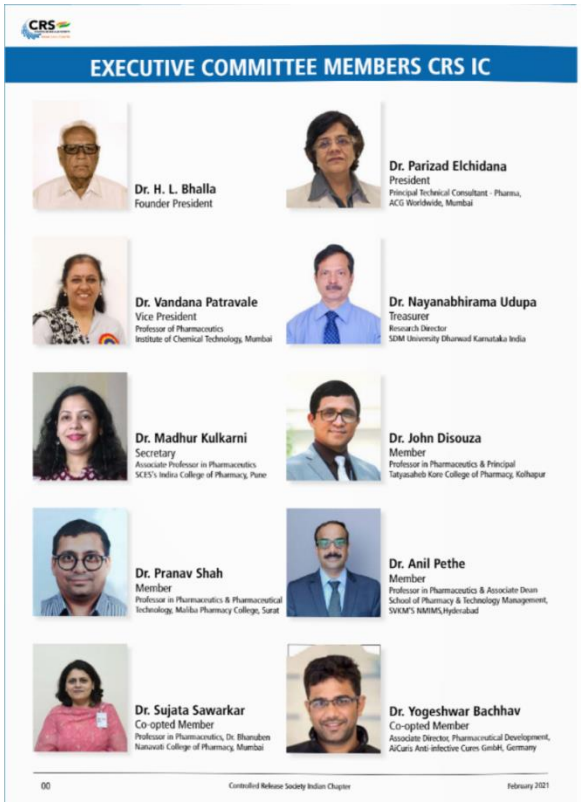
Created by | Checked by | Approved by | Authorized by

Hands-on-Training: Development and stabilization methods for Nanoparticulate Drugs

Created by	Checked by	Approved by	Authorized by

Academic Year 2020-21

Oral Delivery of Biologics



EXECUTIVE COMMITTEE MEMBERS CRS IC

Dr. H. L. Bhalla
Founder President

Dr. Parizad Elchidana
President
Principal Technical Consultant - Pharma, ACG Worldwide, Mumbai

Dr. Vandana Patravale
Vice President
Professor of Pharmaceutics
Institute of Chemical Technology, Mumbai

Dr. Nayanabhirama Udupa
Treasurer
Research Director
SDM University Dharwad Karnataka India

Dr. Madhur Kulkarni
Secretary
Associate Professor in Pharmaceutics
SCES's Indira College of Pharmacy, Pune

Dr. John Disouza
Member
Professor in Pharmaceutics & Principal
Tatyasaheb Kore College of Pharmacy, Kolhapur

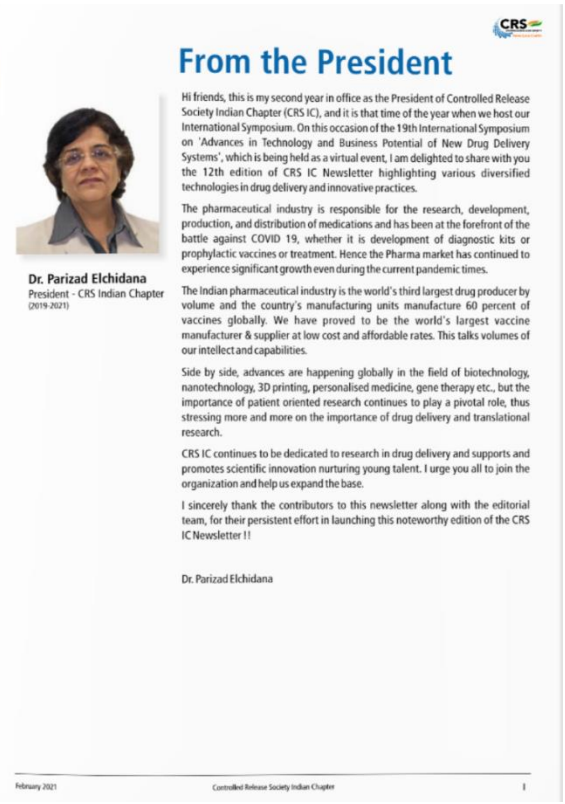
Dr. Pranav Shah
Member
Professor in Pharmaceutics & Pharmaceutical Technology, Maliba Pharmacy College, Surat

Dr. Anil Pethe
Member
Professor in Pharmaceutics & Associate Dean School of Pharmacy & Technology Management, SVKM'S NMIMS,Hyderabad

Dr. Sujata Sawarkar
Co-opted Member
Professor in Pharmaceutics, Dr. Bhanuben Nanavati College of Pharmacy, Mumbai

Dr. Yogeshwar Bachhav
Co-opted Member
Associate Director, Pharmaceutical Development, AiCuris Anti-infective Cures GmbH, Germany

00 Controlled Release Society Indian Chapter February 2021



From the President

Dr. Parizad Elchidana
President - CRS Indian Chapter
(2019-2021)

Hi friends, this is my second year in office as the President of Controlled Release Society Indian Chapter (CRS IC), and it is that time of the year when we host our International Symposium. On this occasion of the 19th International Symposium on 'Advances in Technology and Business Potential of New Drug Delivery Systems', which is being held as a virtual event, I am delighted to share with you the 12th edition of CRS IC Newsletter highlighting various diversified technologies in drug delivery and innovative practices.

The pharmaceutical industry is responsible for the research, development, production, and distribution of medications and has been at the forefront of the battle against COVID 19, whether it is development of diagnostic kits or prophylactic vaccines or treatment. Hence the Pharma market has continued to experience significant growth even during the current pandemic times.

The Indian pharmaceutical industry is the world's third largest drug producer by volume and the country's manufacturing units manufacture 60 percent of vaccines globally. We have proved to be the world's largest vaccine manufacturer & supplier at low cost and affordable rates. This talks volumes of our intellect and capabilities.

Side by side, advances are happening globally in the field of biotechnology, nanotechnology, 3D printing, personalised medicine, gene therapy etc., but the importance of patient oriented research continues to play a pivotal role, thus stressing more and more on the importance of drug delivery and translational research.

CRS IC continues to be dedicated to research in drug delivery and supports and promotes scientific innovation nurturing young talent. I urge you all to join the organization and help us expand the base.

I sincerely thank the contributors to this newsletter along with the editorial team, for their persistent effort in launching this noteworthy edition of the CRS IC Newsletter !!

Dr. Parizad Elchidana

February 2021 Controlled Release Society Indian Chapter 1

Created by	Checked by	Approved by	Authorized by

Manufacturing, Characterization, and Applications of Monoclonal Antibodies

Greetings from Controlled Release Society-Indian Chapter (CRS-IC).

The mission of CRS-IC is to promote education, create awareness and to encourage scientific research towards the creation of intellectual wealth in the area of drug delivery systems in India. In an attempt to fulfil our mission, we have planned **A National Level Workshop on "Manufacturing, Characterization and Applications of Monoclonal Antibodies" on Saturday, 10th October, 2020.**

The recent years have seen phenomenal growth in the field of research and commercialization of monoclonal antibody based therapeutics. With the right confluence of Pharmacy and Biotechnology, this field is set to progress by leaps and bounds. The workshop is hence designed to provide insight into the development, manufacturing, and applications of monoclonal antibody based formulations.

Please find attached the flyer of the workshop and the link for registration.

https://docs.google.com/forms/d/e/1FAIpQLSe1UEQG_iutNm9KCYI9oteZoEGW4hBPRfo--aoqLxukdTWAbg/viewform?usp=pp_url

E-certificates shall be provided to the participants upon successful completion of the workshop.

CRS Indian Local Chapter

CONTROLLED RELEASE SOCIETY INDIAN CHAPTER

ORGANIZES A NATIONAL LEVEL WORKSHOP ON

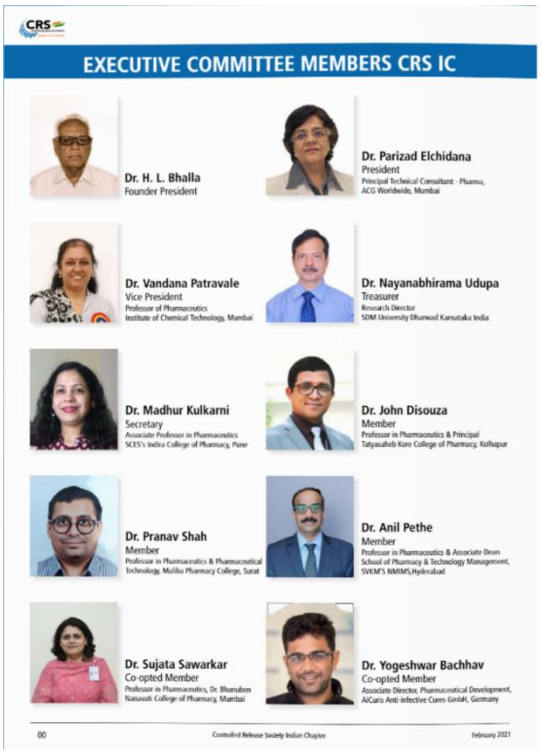
Manufacturing, Characterization & Applications of Monoclonal Antibodies

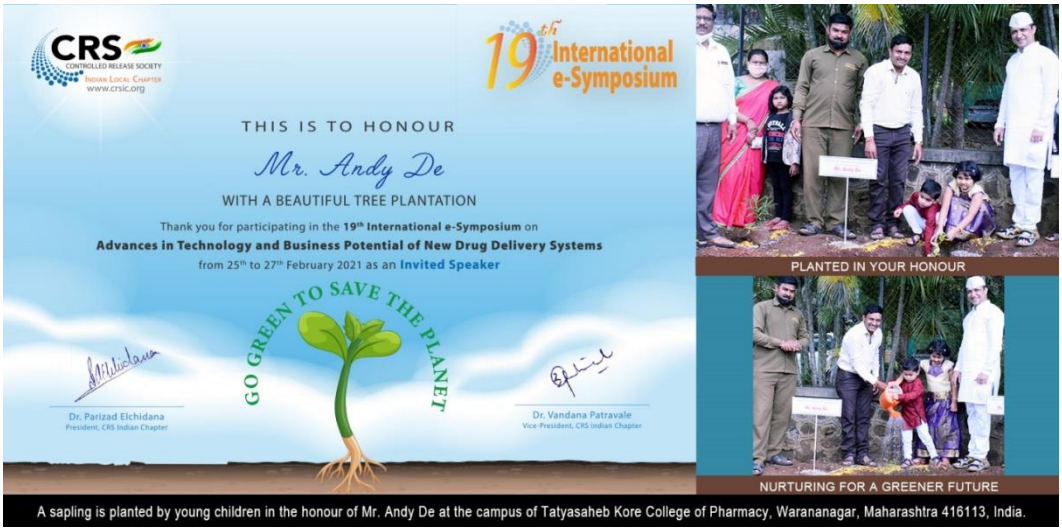
On Saturday, 10th October 2020 between 6.30 PM- 9.30 PM

Time	Speaker Details	Topic
6.30 PM-7.30 PM	**Dr. K. Rajeshwari** Founder & Managing Director, Bioklone Biotech Pvt. Ltd., Chennai, India	Making of Human Monoclonal Antibodies
7.30 PM – 8.30 PM	**Dr. Suneet Shukla** Senior Pharmacologist US FDA	Basics of Monoclonal Antibodies Drug Development
8.30 PM-9.30 PM	**Dr. Sachin Dubey** Deputy Director- Formulation & Analytical Development, Ichnos Sciences SA, Switzerland	Role of Antibodies Based Therapeutics in the Modern Healthcare System

Created by | Checked by | Approved by | Authorized by

Advances in Technology and Business Potential of New Drug Delivery Systems





A sapling is planted by young children in the honour of Mr. Andy De at the campus of Tatyasaheb Kore College of Pharmacy, Warananagar, Maharashtra 416113, India.

Created by	Checked by	Approved by	Authorized by

AICTE-ISTE Sponsored One Week Online Induction/Refresher Programmes on Fostering Pedagogy, Research Administration: Vital Domains for Effective Professional Academic Career

Created by	Checked by	Approved by	Authorized by

Created by	Checked by	Approved by	Authorized by

Academic Year 2019-20

Industrial Pharmacy-III

Created by	Checked by	Approved by	Authorized by

Academic Year 2017-18

Pharma Entrepreneurs Conclave 2017

Created by	Checked by	Approved by	Authorized by

One Day International Conference

on

Pharmaceutical Research: Fundamentals and Advanced Trends

Created by	Checked by	Approved by	Authorized by

Participation and Research Awards of Students in Conferences, Workshops, etc

Sr. No.	Name	Class	Level	Year	Award	Rank
1.	Onkar Patil	M. Pharmacy	National Level	2020	Best Poster	1st Prize
2.	Onkar Patil	Poster Presentation	International Level	2020	Best Poster	1st Prize
3.	Rajeshwari Patil	Poster Presentation	International Level	2020	Best Poster	1st Prize
4.	Tejaswini Jadhav	Poster Presentation	National Level	2020	Best Poster	1st Prize
5.	Dipika Gaikwad	Poster Presentation	International Level	2020	Best Poster	Consolation Prize
6.	Apurva Chougule	Poster Presentation	International Level	2020	Best Poster	Consolation Prize
7.	Amruta Mhatugade	National Level	Plan of Ideal Community Pharmacy	2020		2nd Prize
8.	Deepali Patil	National Level	Techno Pharma Model Presentation	2020		2nd Prize
9.	Pradyumana Magdum	National Level	Techno Pharma Model Presentation	2020		2nd Prize
10.	Rohini Kulkarni	National Level	Techno Pharma Model Presentation	2020		2nd Prize
11.	Somesh Waghmode	State Level	Intercollegiate Competition in Microbiology	2020		1st Prize
12.	Girish Parle	State Level	Intercollegiate Competition in Microbiology	2020		1st Prize
13.	RutujaRhatwal	District Level	Avishkar	2020		1st Prize
14.	Rajnandini Patil	District Level	Avishkar	2020		3nd Prize

Created by Checked by Approved by Authorized by

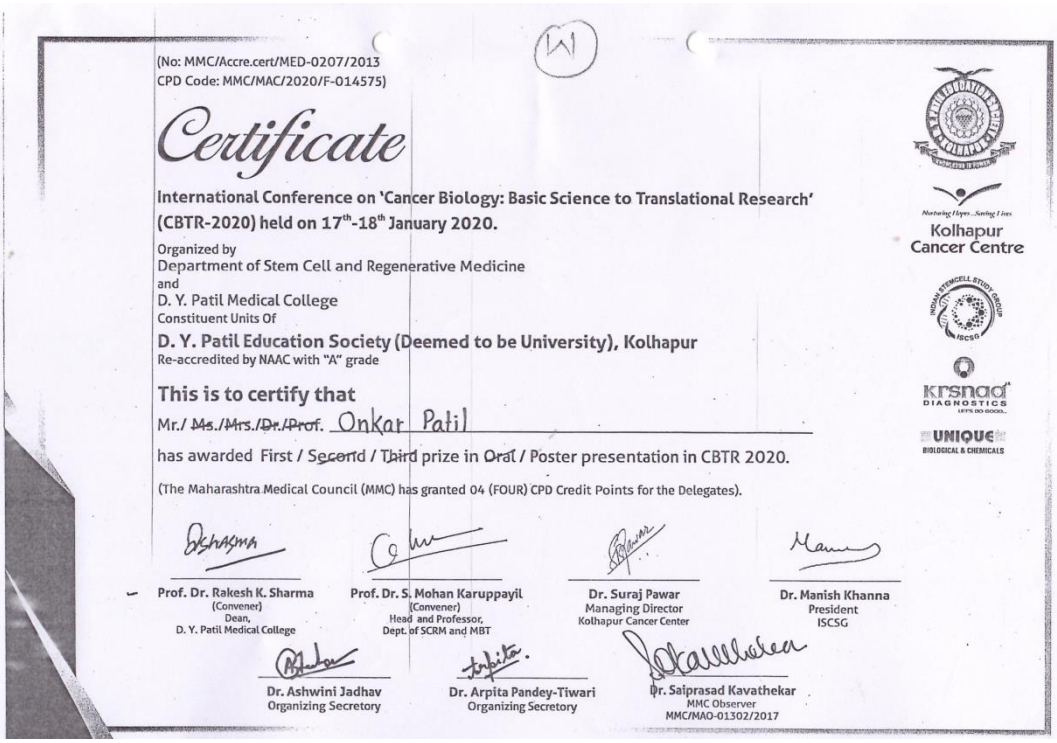
Participation and Research Awards of Faculty in Conferences, Workshops, etc

Sr. No.	Name of Faculty	Type of Event	Title	Year	Award	Rank
1.	John Disouza	International Level	AD Scientific Index	2018	Involved in Scientist List	
1.	Mrs. S. S. Shinde	Conference	Nyctanthus Arbor-Tristis: As a Natural Colorant in Drug Products	2018	Best Poster	1st Prize
2.	Mr. P. P. Maske	Conference	Synthesis & Antimicrobial Activities of Some Novel Mercaptobenzimidazole Derivatives.	2018	Best Poster	1st Prize
3.	Mrs. S. D. Gaikwad	Conference	Rational Design & Development of Novel Cadherin Inhibitors as Anticancer Agents.	2018	Best Poster	2nd Prize
4.	Miss. M. S. Shete	Conference	Design, Development & Characterization of Curcumin Loaded Nanoemulsion.	2018	Best Paper	2nd Prize
5.	Mr. K. S. Patil	Conference	A study of Imapact of Medical Advertisment on Public Health	2018	Best Poster	2nd Prize
6.	Mr. P. S. Kumbhar	Conference	TPGS Prodrug of Methotrexate: Improved In-vitro Anticancer Efficacy against MDA-MB 231 MDR Breast Cancer Cells	2018	Best Poster	2nd Prize
7.	Mr. K. S. Patil	National Level e-Poster Competitio	"Development of Pharma Educational App in COVID-19 Pandemic"	2019	Special Appreciation	Special Appreciation

Created by | Checked by | Approved by | Authorized by

		n on "COVID-19 Pandemic"				
8.	Mr. K. S. Patil	National Conference	Design, development, *and* characterization of Docetaxel-loaded TPGS/ Pluronic F 108 mixed micelles for improved cancer treatment	2019	Best Poster	3rd Prize
9.	Dr. John Disouza	Internationa l Level	AD Scientific Index	2020	Involved in Scientist List	Involved in Scientist List
10.	Mr. Kiran S. Patil	Avishkar	Design, Development and Characterization of Stable Vacuum Foam Dried Docetaxel-Loaded Mixed Micelles for Improved Cancer Treatment	2021	Best Poster	First Prize
11.	Mr. Popat S. Kumbha r	Avishkar	Fabrication and Characterization of ribavirin-loaded liposomes for cancer treatment	2021	Best Poster	First Prize

Created by Checked by Approved by Authorized by



(No: MMC/Accre.cert/MED-0207/2013
CPD Code: MMC/MAC/2020/F-014575)

Certificate

International Conference on 'Cancer Biology: Basic Science to Translational Research' (CBTR-2020) held on 17th-18th January 2020.

Organized by
Department of Stem Cell and Regenerative Medicine
and
D. Y. Patil Medical College
Constituent Units Of
D. Y. Patil Education Society (Deemed to be University), Kolhapur
Re-accredited by NAAC with "A" grade

This is to certify that

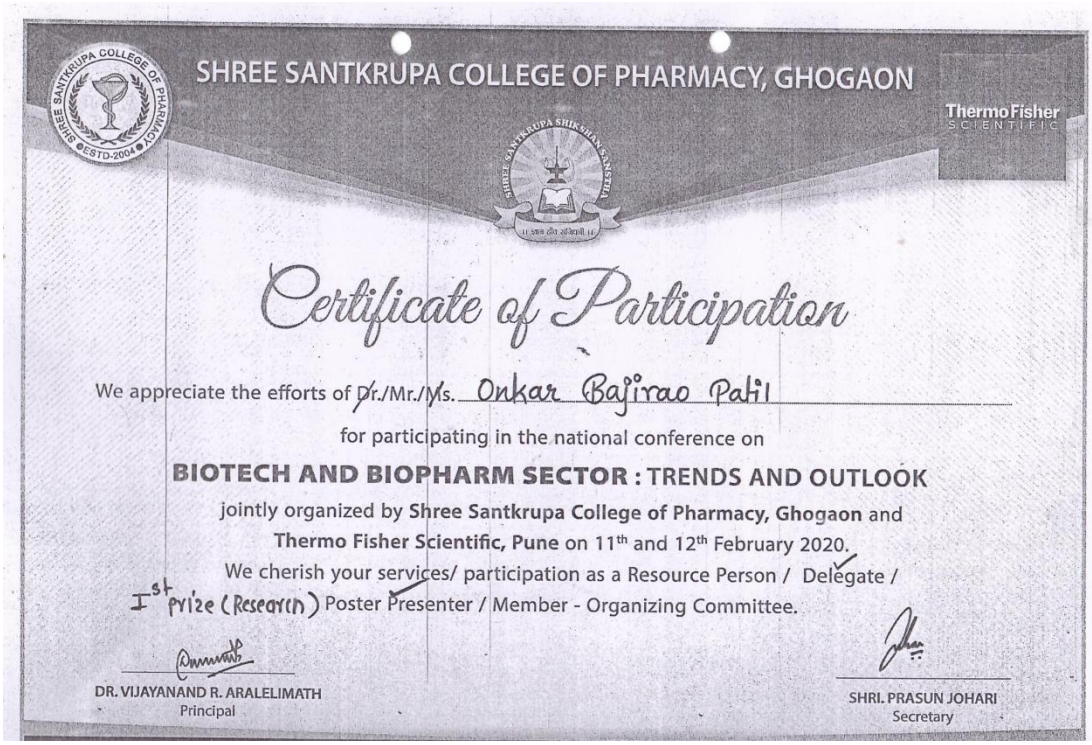
Mr./ ~~Ms./Mrs./Dr./Prof.~~ Onkar Patil

has awarded First / Second / Third prize in Oral / Poster presentation in CBTR 2020.

(The Maharashtra Medical Council (MMC) has granted 04 (FOUR) CPD Credit Points for the Delegates).

Kolhapur Cancer Centre

Prof. Dr. Rakesh K. Sharma (Convener) Dean, D. Y. Patil Medical College
Prof. Dr. S. Mohan Karuppayil (Convener) Head and Professor, Dept. of SCRM and MBT
Dr. Suraj Pawar Managing Director Kolhapur Cancer Center
Dr. Manish Khanna President ISCSG
Dr. Ashwini Jadhav Organizing Secretory
Dr. Arpita Pandey-Tiwari Organizing Secretory
Dr. Saiprasad Kavathekar MMC Observer MMC/MAO-01302/2017



SHREE SANTKRUPA COLLEGE OF PHARMACY, GHOGAON

ThermoFisher SCIENTIFIC

Certificate of Participation

We appreciate the efforts of ~~Dr./Mr./Ms.~~ Onkar Bajirao Patil

for participating in the national conference on

BIOTECH AND BIOPHARM SECTOR : TRENDS AND OUTLOOK

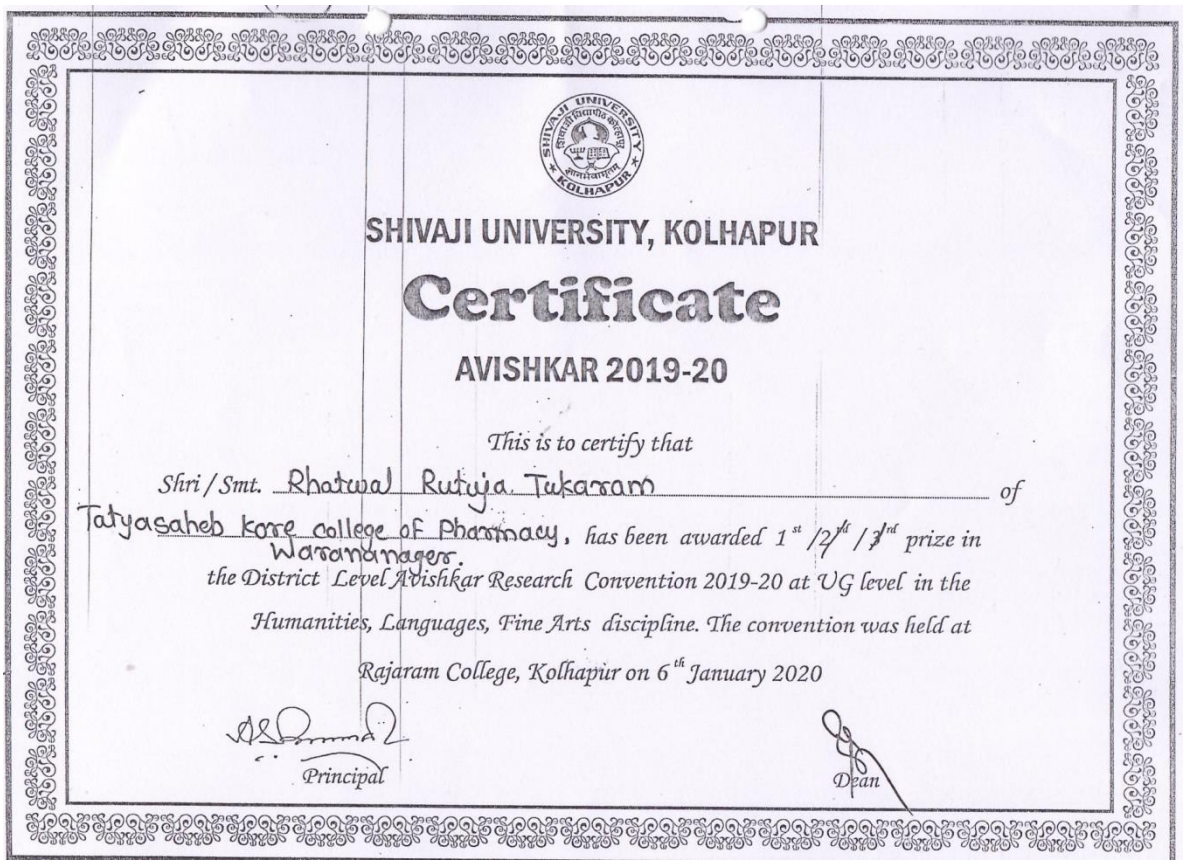
jointly organized by **Shree Santkrupa College of Pharmacy, Ghogaon** and **Thermo Fisher Scientific, Pune** on 11th and 12th February 2020.

We cherish your services/ participation as a Resource Person / ~~Delegate~~ / I st prize (Research) Poster Presenter / Member - Organizing Committee.

DR. VIJAYANAND R. ARALELIMATH
Principal

SHRI. PRASUN JOHARI
Secretary

Created by	Checked by	Approved by	Authorized by



SHIVAJI UNIVERSITY, KOLHAPUR

Certificate

AVISHKAR 2019-20

This is to certify that

Shri / Smt. Rhatwal Rutuja Tukaram *of*

Tatyasaheb kore college of Pharmacy, Warananagar. *has been awarded* 1st /2nd /3rd *prize in the District Level Avishkar Research Convention 2019-20 at UG level in the Humanities, Languages, Fine Arts discipline. The convention was held at Rajaram College, Kolhapur on 6th January 2020*

Principal *Dean*

Created by | Checked by | Approved by | Authorized by

(No: MMC/Accre.cert/MED-0207/2013
CPD Code: MMC/MAC/2020/F-014575)

Certificate

International Conference on 'Cancer Biology: Basic Science to Translational Research' (CBTR-2020) held on 17th-18th January 2020.

Organized by
Department of Stem Cell and Regenerative Medicine
and
D. Y. Patil Medical College
Constituent Units Of
D. Y. Patil Education Society (Deemed to be University), Kolhapur
Re-accredited by NAAC with "A" grade

This is to certify that
Mr./ Ms./Mrs./Dr./Prof. Apurva R. Chougule
has Participated in ~~Oral~~/ Poster presentation in CBTR-2020.

(The Maharashtra Medical Council (MMC) has granted 04 (FOUR) CPD Credit Points for the Delegates).

Prof. Dr. Rakesh K. Sharma (Convener) Dean, D. Y. Patil Medical College
Prof. Dr. S. Mohan Karuppayil (Convener) Head and Professor, Dept. of SCRM and MBT
Dr. Suraj Pawar Managing Director Kolhapur Cancer Center
Dr. Manish Khanna President ISCSG
Dr. Ashwini Jadhav Organizing Secretory
Dr. Arpita Pandey-Tiwari Organizing Secretory
Dr. Saiprasad Kavathekar MMC Observer MMC/MAO-01302/2017

Sanjay Ghodawat University, Kolhapur
Empowering Lives Globally !
Technology • Architecture • Science • Management • Commerce • Liberal Arts • Pharmacy

Sanjay Ghodawat Group of Institutions
• NAAC 'A' Grade • NBA Accredited • ISO 9001 : 2008 Certified
Technology • Management • Polytechnic

Present
VIBRANT 2020

Certificate

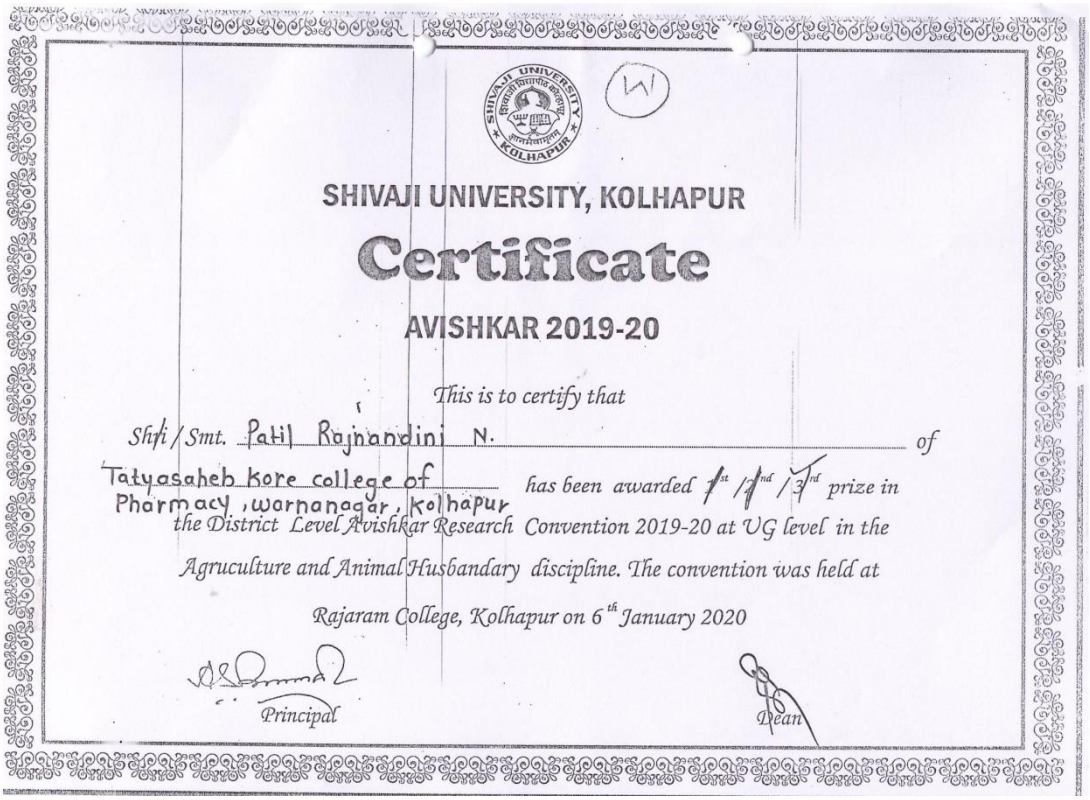
Mr. / Ms. Deepali Eknath patil
This certificate is in recognition of your Participation / Achieving 2nd Rank
at the National Level Students' Symposium, Vibrant 2020 in the Event Techno pharma model Presentation
held during 29th February & 1st March, 2020.

Congratulation for your accomplishment !

Mr. Gurunath. Machhale (Convenor, Vibrant 2020)
Dr. V.V. Kulkarni (Director, SGI)
Dr. B.M. Hirdekar (Registrar, SGU)
Dr. V.A. Raikar (Vice-Chancellor, SGU)
Mr. Vinayak Bhosale (Trustee, SGU)

Title Sponsor Path Seeds · Beverage Partner · Travel Partner STAR air · ICT Partner · Event Sponsor · Food Partner · Event Sponsor Aeolus · Event Sponsor · Event Sponsor · Event Sponsor FORTUNE · Event Sponsor SAI SERVICE

Created by | Checked by | Approved by | Authorized by



SHIVAJI UNIVERSITY, KOLHAPUR

Certificate

AVISHKAR 2019-20

This is to certify that

Shri / Smt. Patil Rajnandini N. *of*

Tatyasaheb kore college of Pharmacy, warnanagar, kolhapur *has been awarded* 1st / 2nd / 3rd *prize in the District Level Avishkar Research Convention 2019-20 at UG level in the Agriculture and Animal Husbandary discipline. The convention was held at Rajaram College, Kolhapur on 6th January 2020*

Principal

Dean

Sanjay Ghodawat University, Kolhapur
Empowering Lives Globally !
Technology • Architecture • Science • Management • Commerce • Liberal Arts • Pharmacy

Sanjay Ghodawat Group of Institutions
NAAC 'A' Grade • NBA Accredited • ISO 9001 : 2008 Certified
Technology • Management • Polytechnic

Present

VIBRANT 2020

Certificate

Mr. / Ms. Pradyumna Abhay Magdum

This certificate is in recognition of your Participation / Achieving 2nd Rank.

at the National Level Students' Symposium, Vibrant 2020 in the Event Techno pharma model Presentation

held during 29th February & 1st March, 2020.

Congratulation for your accomplishment !

Mr. Gurunath. Machhale (Convener, Vibrant 2020) · Dr. V.V. Kulkarni (Director, SGI) · Dr. B.M. Hirdekar (Registrar, SGU) · Dr. V.A. Raikar (Vice-Chancellor, SGU) · Mr. Vinayak Bhosale (Trustee, SGU)

Title Sponsor: Path Seeds · Beverage Partner · Travel Partner: Star Air · ICT Partner · Event Sponsor · Food Partner · Event Sponsor: Aeolus · Event Sponsor · Event Sponsor · Event Sponsor: Fortune · Event Sponsor: Easy Service

Created by	Checked by	Approved by	Authorized by

Sanjay Ghodawat University, Kolhapur
Empowering Lives Globally !
Technology • Architecture • Science • Management • Commerce • Liberal Arts • Pharmacy

Sanjay Ghodawat Group of Institutions
NAAC 'A' Grade • NBA Accredited • ISO 9001 : 2008 Certified
Technology • Management • Polytechnic

Present

VIBRANT 2020

Certificate

Mr. / Ms. Rohini Ravindra Kulkarni

This certificate is in recognition of your Participation / Achieving 2nd Rank

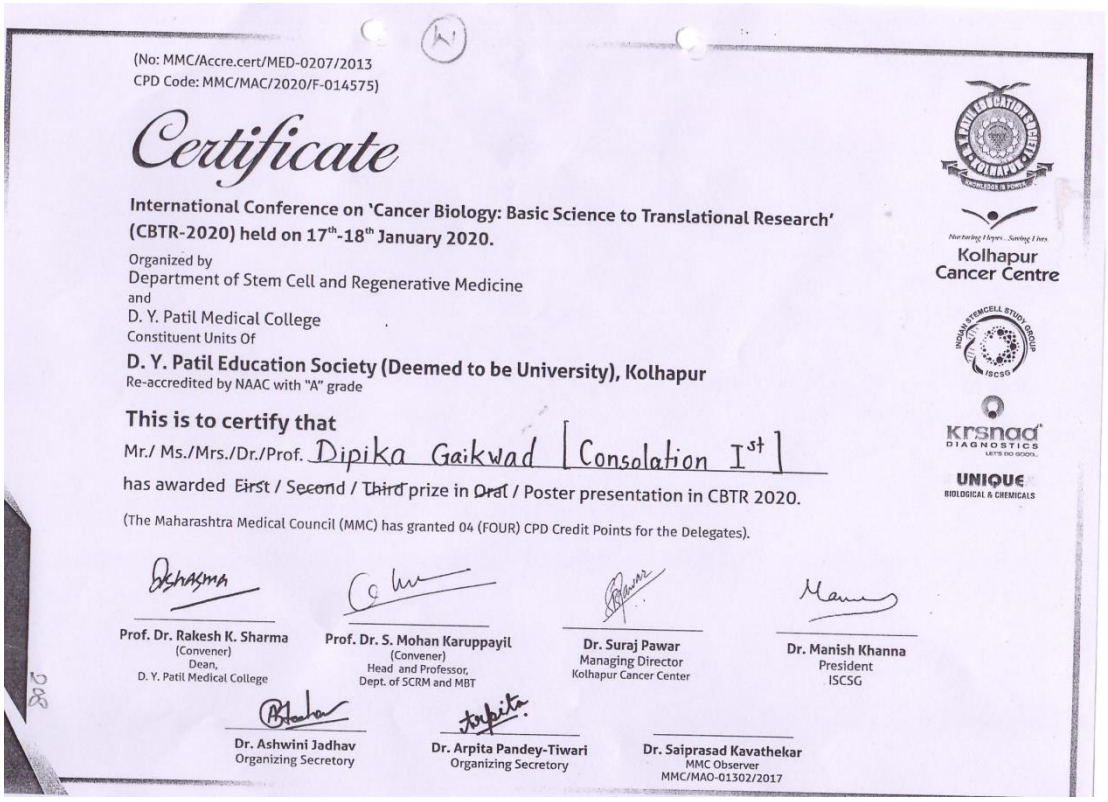
at the National Level Students' Symposium, Vibrant 2020 in the Event Techno pharma model Presentation

held during 29th February & 1st March, 2020.

Congratulation for your accomplishment !

Mr. Gurunath. Machhale (Convener, Vibrant 2020) | Dr. V.V. Kulkarni (Director, SGI) | Dr. B.M. Hirdekar (Registrar, SGU) | Dr. V.A. Raikar (Vice-Chancellor, SGU) | Mr. Vinayak Bhosale (Trustee, SGU)

Title Sponsor: Path Seeds Global Education | Beverage Partner: Tiger Junior | Travel Partner: STAR air | ICT Partner | Event Sponsor: Paintful Mountain | Food Partner | Event Sponsor: Aeolus | Event Sponsor: Affordable Energy | Event Sponsor | Event Sponsor: Fortune Shah Group | Event Sponsor: Sai Service



(No: MMC/Accre.cert/MED-0207/2013
CPD Code: MMC/MAC/2020/F-014575)

Certificate

International Conference on 'Cancer Biology: Basic Science to Translational Research' (CBTR-2020) held on 17th-18th January 2020.

Organized by
Department of Stem Cell and Regenerative Medicine
and
D. Y. Patil Medical College
Constituent Units Of
D. Y. Patil Education Society (Deemed to be University), Kolhapur
Re-accredited by NAAC with "A" grade

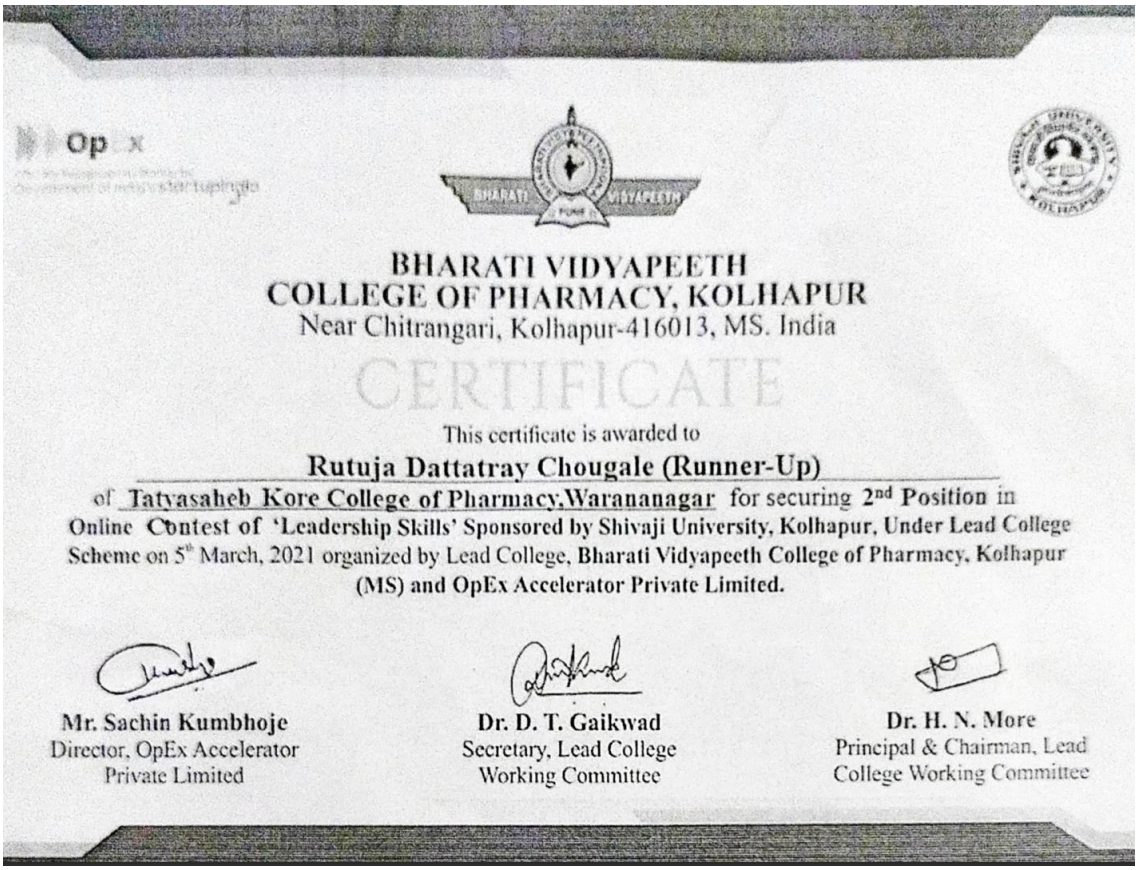
Kolhapur Cancer Centre | ISCSG | Krsnaa Diagnostics | Unique Biological & Chemicals

This is to certify that
Mr./ Ms./Mrs./Dr./Prof. Dipika Gaikwad [Consolation I st]
has awarded ~~First~~ / ~~Second~~ / ~~Third~~ prize in ~~Oral~~ / Poster presentation in CBTR 2020.

(The Maharashtra Medical Council (MMC) has granted 04 (FOUR) CPD Credit Points for the Delegates).

Prof. Dr. Rakesh K. Sharma (Convener) Dean, D. Y. Patil Medical College
Prof. Dr. S. Mohan Karuppayil (Convener) Head and Professor, Dept. of SCRM and MBT
Dr. Suraj Pawar Managing Director Kolhapur Cancer Center
Dr. Manish Khanna President ISCSG
Dr. Ashwini Jadhav Organizing Secretory
Dr. Arpita Pandey-Tiwari Organizing Secretory
Dr. Saiprasad Kavathekar MMC Observer MMC/MAO-01302/2017

Created by	Checked by	Approved by	Authorized by



BHARATI VIDYAPEETH
COLLEGE OF PHARMACY, KOLHAPUR
Near Chitrangari, Kolhapur-416013, MS. India

CERTIFICATE

This certificate is awarded to

Rutuja Dattatray Chougale (Runner-Up)

of **Tatyasaheb Kore College of Pharmacy,Warananagar** for securing **2nd Position** in **Online Contest of 'Leadership Skills' Sponsored by Shivaji University, Kolhapur, Under Lead College Scheme on 5th March, 2021 organized by Lead College, Bharati Vidyapeeth College of Pharmacy, Kolhapur (MS) and OpEx Accelerator Private Limited.**

Mr. Sachin Kumbhoje
Director, OpEx Accelerator Private Limited

Dr. D. T. Gaikwad
Secretary, Lead College Working Committee

Dr. H. N. More
Principal & Chairman, Lead College Working Committee

Created by | Checked by | Approved by | Authorized by

SHIVAJI UNIVERSITY, KOLHAPUR

Estd. 1962
NAAC 'A' Grade

AVISHKAR 2018-2019

CERTIFICATE

This is to certify that, Shri./~~Smt.~~ Popat S. Kumbhar

of Tatyasaheb Kore College of Pharmacy, Warana College/Dept. has participated and Awarded ~~First~~/Second/~~Third~~ in "Avishkar 2018-2019" Research Project Competition at University level (Central) held at **Yashwantrao Chavan School of Rural Development, Shivaji University, Kolhapur** in the Pure Science (Teacher) category during December 2018-January, 2019

Date : 28/12/2018
Place : Kolhapur

I/c. Director

Co-o

Created by	Checked by	Approved by	Authorized by

"A++" Accredited by NAAC (2021) with CGPA 3.52

AVISHKAR 2021-22

CERTIFICATE

This is to certify that Shri/Smt. Popat sonappa kumbhar of Tatyasaheb kore college of pharmacy has been awarded First/Second/Third prize in the University Level Avishkar Research Convention 2021-22 at UG/PG/PPG/TH level in Medicine and pharmacy discipline. The convention was organized online by **Department of Computer Science, Shivaji University, Kolhapur** on 11/02/2022.

Place:

Date:

Avishkar, Co-ordinator

Pro-vice Chancellor

TATYASAHEB KORE COLLEGE OF PHARMACY * WARANANAGAR *

Scanned by TapScanner

GONDWANA UNIVERSITY, GADCHIROLI

AVISHKAR 2018
13th Maharashtra State
Inter-University Research Convention

January 15 to 18, 2019

Certificate

This is to certify that
Popat Sonappa Kumbhar
has participated and presented the reasearch work in the theme area
Pure Science
under the category of
Teachers
representing the
Shivaji University,Kolhapur
in the Inter-University Research Convention
Avishkar-2018 organised by
Gondwana University, Gadchiroli during January 15 to 18, 2019.

Dr. Ishwar S. Mohurley
Registrar
Gondwana University, Gadchiroli

Seal

Dr. Chandrashekhar V. Bhusari
Pro-Vice-Chancellor
Gondwana University, Gadchiroli

Scanned by TapScanner

Created by	Checked by	Approved by	Authorized by

ASSOCIATION OF INDIAN UNIVERSITIES (AIU), NEW DELHI
&
ACADEMY OF MARITIME EDUCATION AND TRAINING (AMET), CHENNAI

Anveshan : 2021-22

NATIONAL STUDENT RESEARCH CONVENTION

Certificate

This is to certify that Mr./Ms./Dr. POOJA SIDDAPPA KUMBHAR of SHRI SHIVAJI UNIVERSITY University/Institute participated in Anveshan: 2021-22 AIU - National Student Research Convention 2022 held at Academy of Maritime Education and Training(AMET)-Deemed to be University, Chennai, under the aegis of Association of Indian Universities (AIU) during 27th and 28th March , 2022. He/She presented his/her project entitled FORMULATION AND CHARACTERIZATION OF LIPOSOME in the category HEALTH SCIENCE

Dr.Pankaj Mittal
Secretary General, AIU

Dr. Amarendra Pani
Joint Director &
Head Research, AIU

Dr.D.Rajasekar
Coordinator, AMET

Col. Dr. G.Thiruvasagam
Vice-Chancellor, AMET
President, AIU

Created by	Checked by	Approved by	Authorized by

Intellectual Property Rights

Patents

Patent Application No.	Status of Patent (Published/ Granted)	Inventor/s Name	Title of the Patent	Applicant/s Name	Patent Published Date / Granted Date (DD/MM/YYYY)
202221024815A	Published	Dr. A. S. Manjappa	Combination drug therapy	Dr. A. S. Manjappa	13/05/2022
202121023742	Published	Mr. Kiran Shivaji Patil	Transdermal ethosome composition of ranozaline	Mr. Kiran Shivaji Patil	--
202021038512	Published	Mr. P. S. Kumbhar	A novel bike friendly bright helmet with different safety features	Mr. P. S. Kumbhar	18/09/2020
201921009581 A	Published	Dr. A. S. Manjappa	Microparticles containing montelukast for inhalation therapy	Dr. A. S.Manjappa	19/04/2019
1943/MUM/2015	Published	Dr. J. I. Disouza	A novel herbal extract with anticancer activity	Dr. J. I. Disouza	28/04/2017
2021/MUM/2008A	Published	Dr. A, S. Sherikar	Synthesis of phenyl nitrate derivatives of free carboxylic acid group containing NSAIDS as cyclooxygenase inhibitor for anti-flammatory, analgesic and smooth muscle relaxant activity	Dr. A. S. Sherikar	02/04/2010

Created by | Checked by | Approved by | Authorized by

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/04/2022
(21) Application No.202221024815 A
(43) Publication Date : 13/05/2022

(54) Title of the invention : COMBINATION DRUG THERAPY FOR ANTICANCER

(51) International classification	:A61K0031145000, A61K0031496000, A61K0045060000, A61K0031337000, A61K0031498500
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)Mr.Rameshwar Madhukar Ardad
Address of Applicant :Dr. Shivajirao Kadam College of pharmacy Kasabe Digraj,Sangli 416305 MS India. Email id-ramardad@rediffmail.com Mob no.9503756634. ---------- ----------
2)Dr.Shashikant C. Dhawale
3)Dr. Arehalli Sidramappa Manjappa
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Mr.Rameshwar Madhukar Ardad
Address of Applicant :Dr. Shivajirao Kadam College of pharmacy Kasabe Digraj,Sangli 416305 MS India. Email id-ramardad@rediffmail.com Mob no.9503756634. ---------- ----------
2)Dr.Shashikant C. Dhawale
Address of Applicant :Dr.Shashikant C. Dhawale ,58, Veer Sawarkar Nagar, Wadi Bk, Purna Road Nanded. 431605 MS India. Email id-shashiprathmesh@gmail.com Mob no 9970700030. ---------- ----------
3)Dr. Arehalli Sidramappa Manjappa
Address of Applicant :Department of Pharmaceutics, Tatyasaheb Kore College of Pharmacy, Warananagar -416113 Tal: PangalaDistrict: Kolhapur Maharashtra Email Id: manju_as82@yahoo.co.in Mob No: 9552826871;8956647419 ---------- ----------

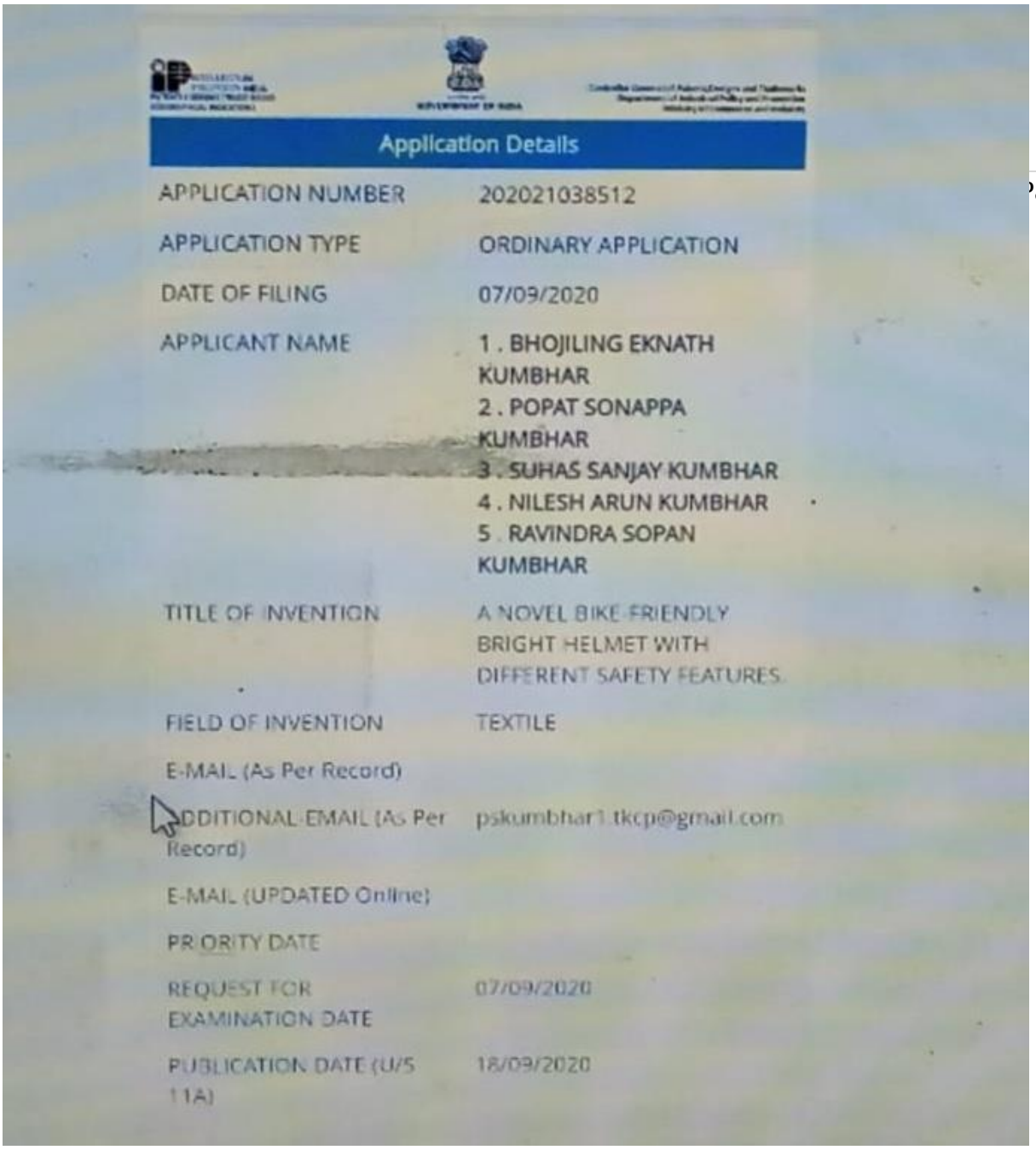
(57) Abstract :
COMBINATION DRUG THERAPY FOR ANTICANCER Abstract The present invention states that the combination therapy useful for treatment of oncological disorders. Further invention relates to Ketoconazole; Disulfiram; and Tadalafil having 1:1:1 molar ratio respectively. Further embodiment of present invention relates to Ketoconazole: Disulfiram: Tadalafil cocktail in combination with

Created by | Checked by | Approved by | Authorized by

Intellectual Property In...
ipindiaservices.gov.in

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

Application Details	
APPLICATION NUMBER	202121023742
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/05/2021
APPLICANT NAME	1 . Ms. Hemalata Suhasrao Dol 2 . Dr. Ashok Ananda Hajare 3 . Dr. Trupti Ashok Powar 4 . Mr. Kiran Shivaji Patil
TITLE OF INVENTION	TRANSDERMAL ETHOSOME COMPOSITION OF RANOLAZINE
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	hemalatadol@gmail.com
ADDITIONAL-EMAIL (As Per Record)	hemalatadol@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	



Application Details

APPLICATION NUMBER	202021038512
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	07/09/2020
APPLICANT NAME	1 . BHOJILING EKNATH KUMBHAR 2 . POPAT SONAPPA KUMBHAR 3 . SUHAS SANJAY KUMBHAR 4 . NILESH ARUN KUMBHAR 5 . RAVINDRA SOPAN KUMBHAR
TITLE OF INVENTION	A NOVEL BIKE FRIENDLY BRIGHT HELMET WITH DIFFERENT SAFETY FEATURES.
FIELD OF INVENTION	TEXTILE
E-MAIL (As Per Record)	
ADDITIONAL EMAIL (As Per Record)	pskumbhar1.tkcp@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	07/09/2020
PUBLICATION DATE (U/S 11A)	18/09/2020

Created by | Checked by | Approved by | Authorized by

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/03/2019
(21) Application No.201921009581 A
(43) Publication Date : 19/04/2019

(54) Title of the invention : MICROPARTICLES CONTAINING MONTELUKAST FOR INHALATION THERAPY.

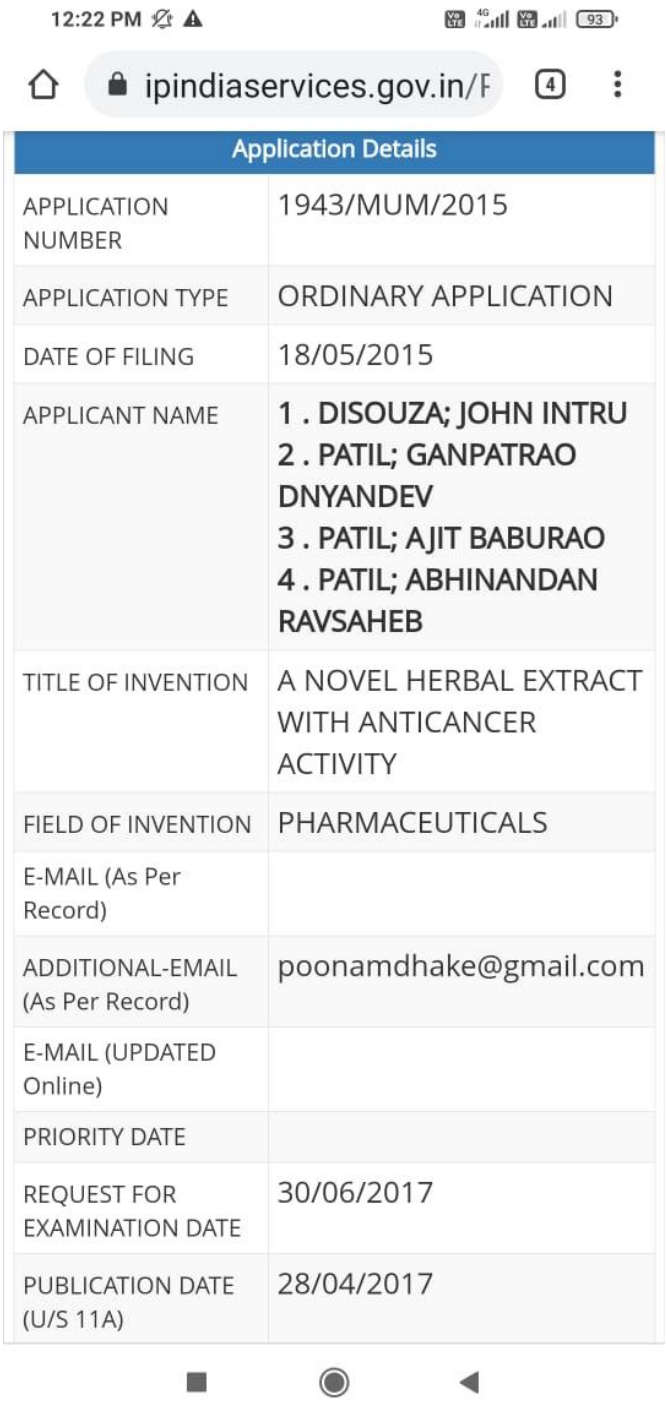
(51) International classification	:A61K 9/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
1)PANCHAL CHANDRAWADAN VISHWAMBHAR
Address of Applicant :MAHARASHTRA COLLEGE OF PHARMACY, NILANGA, TALUKA-NILANGA, DIST.: LATUR, MAHARASHTRA, INDIA,PIN CODE:413521. Maharashtra India
2)BANSODE HEMANT BALU
3)DR. JOSHI SUMIT ASHOK
4)DR. DAMA GANESH YOGIRAJ
5)DR. AREHALLI S. MANJAPPA
6)GURAV Prashant B.
7)JADHAV Sachin Manik
(72)**Name of Inventor :**
1)PANCHAL CHANDRAWADAN VISHWAMBHAR
2)BANSODE HEMANT BALU
3)DR. JOSHI SUMIT ASHOK
4)DR. DAMA GANESH YOGIRAJ
5)DR. AREHALLI S. MANJAPPA
6)GURAV Prashant B
7)JADHAV Sachin Manik

(57) Abstract :
ABSTRACT The present invention relates to microparticles containing Montelukast for inhalation therapy, specifically microparticles containing Montelukast sodium loaded chitosan and sodium alginate and a process for preparation thereof.

No. of Pages : 17 No. of Claims : 10

Created by | Checked by | Approved by | Authorized by



Application Details	
APPLICATION NUMBER	1943/MUM/2015
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	18/05/2015
APPLICANT NAME	1 . DISOUZA; JOHN INTRU 2 . PATIL; GANPATRAO DNYANDEV 3 . PATIL; AJIT BABURAO 4 . PATIL; ABHINANDAN RAVSAHEB
TITLE OF INVENTION	A NOVEL HERBAL EXTRACT WITH ANTICANCER ACTIVITY
FIELD OF INVENTION	PHARMACEUTICALS
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	poonamdhake@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	30/06/2017
PUBLICATION DATE (U/S 11A)	28/04/2017

Created by | Checked by | Approved by | Authorized by

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/09/2008

(21) Application No.2021/MUM/2008 A
(43) Publication Date : 02/04/2010

(54) Title of the invention : SYNTHESIS OF PHENYL NITRATE DERIVATIVES OF FREE CARBOXYLIC ACID GROUP CONTAINING NSAIDS AS CYCLOOXYGENZISE INHIBITOR FOR ANTI-FLAMMATORY, ANALGESIC AND SMOOTH MUSCLE RELAXANT ACTIVITY

(51) International classification	:C07C215/68; C07C223/06; C07C225/22
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
1)BHATIA MANISH SUDESH
Address of Applicant :65, CHAVREKAR COLONY, RADHANAGRI ROAD KOLHAPUR-416012. Maharashtra India
2)SHREIKAR AMOL SHANTINATH
3)BHATIA NEELA MANISH
4)INGALE KUNDAN BHANUDAS
5)CHOUDAHRI PRAFULLA BALKRISHNA
6)SANGLE DEEPAK BHASKARRAO
(72)**Name of Inventor :**
1)BHATIA MANISH SUDESH
2)SHREIKAR AMOL SHANTINATH
3)BHATIA NEELA MANISH
4)INGALE KUNDAN BHANUDAS
5)CHOUDAHRI PRAFULLA BALKRISHNA
6)SANGLE DEEPAK BHASKARRAO

(57) Abstract :
The present invention describes the synthesis of phenyl nitrate derivatives of free carboxylic acid group containing NSAIDs as cyclooxygenase inhibitor and nitric oxide donors (CINOD) for anti-inflammatory, analgesic and smooth muscle relaxant activity, novel cyclooxygenase 2 (COX-2) selective inhibitors and novel compositions comprising at least one cyclooxygenase 2 (COX-2) inhibitor, and, at least one compound that donates, transfers, releases nitric oxide and/or stimulates endogenous synthesis of nitric oxide and/or elevates endogenous levels of endothelium-derived relaxing factor or is a substrate for nitric oxide synthase, and/or at least one therapeutic agent. The invention also provides methods for treating inflammation, pain and fever; for treating and/or improving the gastrointestinal properties of COX-2 selective inhibitors; for facilitating wound healing; for treating and/or preventing renal and/or respiratory toxicity; for treating and/or preventing other disorders resulting from elevated levels of cyclooxygenase-2; and for improving the cardiovascular profile of COX-2 selective inhibitors.

No. of Pages : 56 No. of Claims : 8