



**Shree Warana Vibhag Shikshan Mandal's
Tatyasaheb Kore College of Pharmacy,
Warananagar**

Tal: - Panhala, Dist.: - Kolhapur, Maharashtra, India, Pin 416 113

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 Vidyannagar	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	Kopergaon	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

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Tatyasaheb Kore College of Pharmacy,
Warananagar**

Tal: - Panhala, Dist.: - Kolhapur, Maharashtra, India, Pin 416 113

National Institutional Ranking Framework Ministry of Education Government of India		
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 Government Pharmacy College	Rajkot	Gujarat
Bharati Vidyapeeth College of Pharmacy	Kolhapur	Maharashtra
Chalapathi Institute of Pharmaceutical Sciences	Guntur	Andhra Pradesh
Girjananda 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
Maharshi Markandeshwar	Ambala	Haryana
NSHM Knowledge Campus	Kolkata	West Bengal
S. E. T.'s College of Pharmacy	Dharwad	Karnataka
Sanskriti College of Pharmacy	Hyderabad	Telangana
Sanjwani College of Pharmaceutical Education and Research	Kopergaon	Maharashtra
Shree Warana Vibhag Shikshan Mandal's Tatyasaheb Kore College of Pharmacy	Warananagar	Maharashtra
Sri Padmavathi Mahila Visva Vidyalyam	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

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National Institutional Ranking Framework
Ministry of Education
Government of India



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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
Maharshi 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

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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



CO₂ Incubator

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Inverted Microscope



Cooling Centrifuge

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Common Facility Centre in the HEI



Freeze Dryer



HPLC



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Uv-Visible Spectrophotometer



Brookfield Viscometer



FTIR

Inverted Microscope

Incubation Facility Training availed to staff and students

CO₂ Extractor



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Shree Warana Vibhag Shikshan Mandal's
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Warananagar

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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	

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BHARATI VIDYAPEETH

COLLEGE OF PHARMACY, KOLHAPUR

: 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)

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

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

Ref. No. : BV/CPK/ 614 /2021 - 20 22

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



Web : <http://copkolhapur.bharativedyapeeth.edu>

E - mail : copkolhapur@bharativedyapeeth.edu



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

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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 maustation regulation activity of Herbal formulation	/ Priyanka Mane / Monika Sabale / Mugdha Kambli	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/ Jaggery	/ Rutuja Dhanawade / Arifa Najkawadi / Kashish Mulla / Tanuja Pawar / Tejal Shankar Veer	Dr. A.V. Belvotagi
4	Ashokrao Mane Pethvadgaon	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 tetrazole for Breast Cancer	Shashikant Adsule Ashish Phutane / Samrudhi Kadam / Shruti Mandekar	Dr. R.B. Kumbhar
6	TKCP, Warananagar	Development and Characterization of Ribavirin-Loaded Nanoparticles for the Treatment of Cancer	/ Bhagyashri Thorat / Prili Barawade Sushant Todkar Shivprasad Patil	Dr. J. I. Disouza
7	Vasentidevi 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 thiaziazole derivatives by using invitro model	/ Nutan Desai Anand Desai / Ashwarya Desalmukh Adesh Deshmukh	Dr. Sandeep Kane

Secretary,
Lead College Working Committee (Pharmacy)

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Shree Warana Vibhag Shikshan Mandal's
**Tatyasaheb Kore College of Pharmacy,
Warananagar**

Tal: - Panhala, Dist.: - Kolhapur, Maharashtra, India, Pin 416 113

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.
2150 'E' Tarapur Panhala
Chartered Accountant
Sushant Phadnis
Chartered Accountant

Dr. J. P. 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 :- 22122830AF&EDT1482

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Dr. J. P. Disouza

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Warananagar

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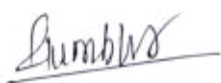
Academic Year 2020-21

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	

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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 Attended

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/-

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**Shree Warana Vibhag Shikshan Mandal's
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Warananagar**

Tal: - Panhala, Dist.: - Kolhapur, Maharashtra, India, Pin 416 113

Annexure-I

FORMAT FOR STATEMENT OF EXPENDITURE

AICTE File No. : 34-66/504/FDC/STP/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/STP/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

15/11/2021
Tatyasaheb Kore College of Pharmacy
Warananagar, Tal. Panhala, Dist. Kolhapur
Maharashtra - 416113
Member No: 122830
Chartered Accountant
Near RTD office, Kolhapur
Maharashtra 416001

UDPNVQ 519 2 520AF6ET 06376

(2) Dr. John I. Disouza

PRINCIPAL

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

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**Shree Warana Vibhag Shikshan Mandal's
Tatyasaheb Kore College of Pharmacy,
Warananagar**

Tal: - Panhala, Dist.: - Kolhapur, Maharashtra, India, Pin 416 113

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

Dr. John J. 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:

Sushant Phadnis
Mr. Sushant Phadnis
Chartered Accountant
Membership No: 122830
Address:
Eternity Square C5 - 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 J. 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 Ghoshale

S. T. Bhale

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John J. Disouza

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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 week AICTE- 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
 223501, WARANANAGAR, TAL. PANHALA,
 DIST. KOLHAPUR, MAHARASHTRA, INDIA.

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UTILIZATION CERTIFICATE

Name of the Scheme under which Grant was sanctioned: 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 unspent 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 of the 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 was sanctioned.

Kinds of checks exercised

- Statement of Income and Expenditure
- Receipt and Payment account, bank statement etc.
- Bills/Vouchers/receipts etc.

[Signature]
Mr. Sagar Ghodke
Name & Signature of the Accounts Officer of the
Sushant Rhadnis & Co.

[Signature]
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

[Signature]
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

[Signature]
Mr. Sushant Rhadnis
Chartered Accountant
Membership No: 122830
Primary Square CS - No. 2150
A-TA, E-Ward, Tatyasa Park
Near RTI office, Kolhapur
Maharashtra-416001

UDPN: 2012-2020 AF/FFP2/17
Date: 15/08/2022

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Warananagar

Tal: - Panhala, Dist.: - Kolhapur, Maharashtra, India, Pin 416 113



**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 I	:	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 : istedha@isteonline.org; website : www.isteonline.in

Shree Warana

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Approved by

PO

Authorized by



**Shree Warana Vibhag Shikshan Mandal's
Tatyasaheb Kore College of Pharmacy,
Warananagar**

Tal: - Panhala, Dist.: - Kolhapur, Maharashtra, India, Pin 416 113

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

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

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



Sushant Phadnis & Co.
Chartered Accountant



UDIN - 21122830AAA9K

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Shree Warana Vibhag Shikshan Mandal's
Tatyasaheb Kore College of Pharmacy,
Warananagar

Tal: - Panhala, Dist.: - Kolhapur, Maharashtra, India, Pin 416 113


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	

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**Shree Warana Vibhag Shikshan Mandal's
Tatyasaheb Kore College of Pharmacy,
Warananagar**

Tal: - Panhala, Dist.: - Kolhapur, Maharashtra, India, Pin 416 113

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

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)

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**Shree Warana Vibhag Shikshan Mandal's
Tatyasaheb Kore College of Pharmacy,
Warananagar**

Tal: - Panhala, Dist.: - Kolhapur, Maharashtra, India, Pin 416 113

Approved by PCL, 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:

**MODERNISATION AND REMOVAL OF OBSOLESCENCE RURAL
(MODROB -RURAL): 2019-20**
"Supercritical Fluid Extraction of Medicinal 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 OBSOLESCENCE RURAL (MODROB - RURAL)scheme from AICTE New Delhi has been sanctioned for the project entitled "Supercritical Fluid Extraction of Medicinal 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 Sixty Thousand 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

Sushant Phadnis & Co.
2150 'E'
Tarabai Park
Kolhapur
M.No. 122930
PRINCIPAL
TATYASAHEB KORE COLLEGE OF PHARMACY
(DEGREE) WARANANAGAR, TAL. PANHALA,
DIST. KOLHAPUR, PIN 416113, M.S. INDIA
Chartered Accountant

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**Shree Warana Vibhag Shikshan Mandal's
Tatyasaheb Kore College of Pharmacy,
Warananagar**

Tal: - Panhala, Dist.: - Kolhapur, Maharashtra, India, Pin 416 113

Approved by PCL, AICTE New Delhi
Recognized by Govt. of Maharashtra
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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.pe@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 OBSOLESCENCE 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 Medicinal 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 ₂ Extractor (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
Chartered Accountant

UDIN : 21127830AAAATQ5927

2 SEP 2021

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John Disouza

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**Shree Warana Vibhag Shikshan Mandal's
Tatyasaheb Kore College of Pharmacy,
Warananagar**

Tal: - Panhala, Dist.: - Kolhapur, Maharashtra, India, Pin 416 113

Date: 16 May 2019

F.No. 34-718/FD/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:

Director/ Principal/ Registrar			
1. Name and address of the Beneficiary Institution:	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 MAHARASHTRA 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:	1 st Installment Rs. 1198800 /-	Non-Recurring (85%): Rs.1018980/-	Recurring (15%): Rs.179820/-
6. Sanctioned grant-in-aid is debit to:	Major Head 601.18(a)Gen. (Plan Head)		

- 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.
- 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:

1. Release of funds

11E20/1874

Handwritten notes: A.O. Warananagar, Inward No. 11/5/2020, Date - 11/5/2020, S.O. must be kept in office, (T)

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PO

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Shree Warana Vibhag Shikshan Mandal's
Tatyasaheb Kore College of Pharmacy,
Warananagar

Tal: - Panhala, Dist.: - Kolhapur, Maharashtra, India, Pin 416 113

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

Page | 26/113

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 Medicinal 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,



Project Coordinator
Dr. John I. Disouza



Principal
TATYASAHEB KORE COLLEGE OF PHARMACY
(REGD. OFFICE) WARANANAGAR, TAL. PANHALA, DIST. KOLHAPUR



Reg. No.
06/07/MS/PHARM
2004/042/11/05/2004
Dist. Kolhapur
WARANANAGAR

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Kratl

Approved by

PO

Authorized by



Shree Warana Vibhag Shikshan Mandal's
Tatyasaheb Kore College of Pharmacy,
Warananagar

Tal: - Panhala, Dist.: - Kolhapur, Maharashtra, India, Pin 416 113


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	

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Shree Warana Vibhag Shikshan Mandal's
Tatyasaheb Kore College of Pharmacy,
Warananagar

Tal: - Panhala, Dist.: - Kolhapur, Maharashtra, India, Pin 416 113

 <p>Estd: 1962 NAAC "A" Grade</p>	<p>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) दूरध्वनी: (ईपीएबीएक्स) २६०९०००, २६०९१४५ फॅक्स: ००९१-२३१-२६९१५३३, २६९२३३३, २६९३२९४</p>
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Ref No. : SU/C&U.D.Section/54/857 Date: 20 FEB 2020

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

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

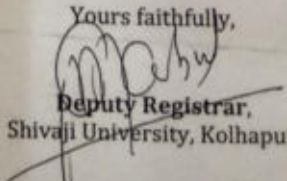
Sir/Madam,

With reference to above mentioned subject, I am directed to inform you that, the University authorities have approved your research proposal entitled "*Development of Multifunctional 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.
TKC: WAR-NANAG
InWf 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 Warannagar, Dist: Kolhapur



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Approved by




Authorized by



Shree Warana Vibhag Shikshan Mandal's
Tatyasaheb Kore College of Pharmacy,
Warananagar

Tal: - Panhala, Dist.: - Kolhapur, Maharashtra, India, Pin 416 113

 <p>शिवाजी विद्यापीठ कोल्हापूर जगन्निवासाय नमः Estd: 1962 NAAC "A" Grade</p>	<p>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</p>
---	---

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

To,
Dr. Disouza John L,
Tatyasaheb Kore College of Pharmacy
Warananagar, Dist: Kolhapur.

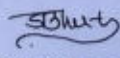
Sub. :- Grants Release order under Research Grants to Collge Teachers 2017-2018.

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 Warananagar, Dist: Kolhapur



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Shree Warana Vibhag Shikshan Mandal's
Tatyasaheb Kore College of Pharmacy,
Warananagar

Tal: - Panhala, Dist.: - Kolhapur, Maharashtra, India, Pin 416 113

विज्ञान प्रसार
(विज्ञान और प्रौद्योगिकी विभाग, भारत सरकार के अंतर्गत स्वायत्त 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	
2.	Accommodation to resource persons	Rs .50,000
3.	Honorarium to Resource persons outside as well as local	Rs.10,000
4.	Material cost for the experiments	Rs .8,000
5.	Miscellaneous	Rs.30,000
	Total	Rs .5,000
		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
(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)

Page | 30/113

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**Shree Warana Vibhag Shikshan Mandal's
Tatyasaheb Kore College of Pharmacy,
Warananagar**

Tal: - Panhala, Dist.: - Kolhapur, Maharashtra, India, Pin 416 113

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

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 from Vigyan Prasar	82,400.00	1	TA for resource persons	55640.00
2	Receivable from Vigyan 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.

Place: Warananagar
Date: Thursday, May 24, 2018

Sushant Phadnis & Co

 Chartered Accountant

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

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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 Discoveret 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



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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 characterization	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 (eucalyptus)	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/



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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 <i>Argyreiapierreana</i> and <i>Mateleadenticulata</i> : 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 of diltiazem 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 extended release 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



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	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 of osteosarcoma: 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



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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



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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_NANOGELO_N_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 unistain lactobacillus as nutraceutical antioxidant agent	10.13040/IJPSR.0975-8232.9(4).1594-99



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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

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Drug repurposing: An emerging strategy in alleviating skin cancer

Popat Kumbhar¹, Kapil Kole¹, Tejashree Yadav¹, Ashwini Bhavar¹, Pramod Waghmare¹,
Rajdeep Bhokare¹, Arehalli Manjappa¹, Niraj Kumar Jha², Dinesh Kumar Chellappan³,
Sunita Shinde¹, Sachin Kumar Singh⁴, Kamal Dua⁵, Ahmad Salawi⁶, John Disouza⁷,
Vandana Patravale⁸

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), Uttarakhand 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; Uttarakhand Institute of Pharmaceutical Sciences, Uttarakhand 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: jdisouza@tkcpwarana.ac.in.
- 8 Department of Pharmaceutical Sciences and Technology, Institute of Chemical Technology,

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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
- ^f

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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

Page | 41/113

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](https://doi.org/10.1016/j.drudis.2022.02.005)

Abstract

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

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

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](https://doi.org/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.
2Annsaheb 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

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Review article

Page | 43/113

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^e 

^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

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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

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Carbohydrate Polymer Technologies and Applications 2 (2021) 100052



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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.

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REVIEW

Open Access

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



Sujit Arun Desai^{1,2*}, Arehalli Manjappa³ and Preeti Khulbe¹

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: sujitdesai7@gmail.com

¹School of Pharmacy, Sunsh Gyan Vihar University, Mahal Rd, Mahal, Jagatpura, Jaipur, Rajasthan 302017, India

²Arnasahab Dange College of D-Pharmacy, Asha, Tal: Walwa, Dist., Sangli, Maharashtra 416301, India

Full list of author information is available at the end of the article



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Antidiabetic and antihyperlipidemic effects of *Argyrea 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

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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 *Argyrea 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.

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

Sharad Kamble¹, Sunita Shinde²

¹Department of Pharmaceutics, Nootan College of Pharmacy, Kavathe Mahankal, Sangli, Maharashtra, India

²Department of Pharmaceutics, Tatyasaheb Kore College of Pharmacy Warananagar, Kolhapur, Maharashtra, India

ABSTRACT

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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. xanthan gum and chitosan in concentration of 15:25, 15:30, 15:35, 15:40, 15:45, 15:50, 15:55, 15:60, 15:65, 15:70, 15:75, 15:80, 15:85, 15:90, 15:95, 15:100, 20:20, 20:30, 20:40, 20:50, 20:60, 20:70, 20:80, 20:90, 20:100, 30:30, 30:40, 30:50, 30:60, 30:70, 30:80, 30:90, 30:100, 40:40, 40:50, 40:60, 40:70, 40:80, 40:90, 40:100.

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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



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

Page | 50/113

Sandip A Bandgar^{1, 2}, Namdeo R Jadhav³, Arehalli S Manjappa⁴

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.

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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

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

Sunita S Shinde^{1*},
Sharad K Kamble² and
Manohar D Kengar²

- 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.

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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: Nifedipine; Extended release tablet; Infrared Spectroscopy; Push pull layer

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

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Authors: Kumbhar, Popat S.; Manjappa, Arehalli Sidramappa; Shete, Abhijeet Dilip; Disouza, John Intru

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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.

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RESEARCH

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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 $64.01 \pm 4.5\%$ 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 ($18.6 \pm 2.9\%$) 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: johni@edgnet.com

Department of Pharmacology, Tatyasaheb Kore College of Pharmacy, Warananagar, Panhala, Kolhapur, Maharashtra 416113, India



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J. I. Disouza

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P. S. Kumbhar

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O. B. Patil

Approved by

A. S. Manjappa

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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
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nanoparticules polymériques

Page | 54/113

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  

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

Page | 55/113

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Mr. Sujit Desai^{*2}, Dr. Preeti Khulbe¹, Dr. Arehalli Manjappa³

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,

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

Authors: Abhinandan Patil, Anamika Dubey, Muneer Ahmad Mallia, John Disouza, Shivaji Pawar, Abdulaziz A. Alqarawi, Abeer Hashem, Ehsayed Fathi Abd_Allah, Ashwani Kumar | [AUTHORS INFO & AFFILIATIONS](#)

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14 / 2,548



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.

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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.

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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

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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 reported¹and 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 studied².

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 countries⁴, the demand of herbal medicines is increasing rapidly due to their lack of side effects was reported⁵.

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 1⁶⁻⁹.

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 studv. extracts of the

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RESEARCH

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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 $23 \pm 2.5\%$ 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 μ g/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 ($16.8 \pm 1.5\%$) 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

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

Mahantesh M. C.^{#1}, Manjappa A. S.², Sherikar A. S.³, Disouza J. I.⁴ and Shinde M. V.⁵

Department of Pharmacognosy¹, Department of Pharmaceutics^{2,4}, Department of
Pharmaceutical Chemistry^{3,5}

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

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***Corresponding Author**

Dr. Mahantesh 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, aloemodin, cassia occidentanol I, cassia occidentanol II, emodin, anthraquinones, anthrones, apigenin, aurantiobtusin, campesterol, cassiollin, chryso-obtusin, chrysophanic acid, chrysarobin, chrysohanol, chrysoeriol. The presented review

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

Shinde Sunita S.¹ and Kamble Sharad K.²

¹Department of Pharmaceutics, Tatyasaheb Kore College of Pharmacy Warananagar, Kolhapur Maharashtra, India.

²Department of Pharmaceutics Nootan College of Pharmacy Kavathe Mahankal, Sangli Maharashtra, India.

*Corresponding Author: Dr. Shinde Sunita S.

Department of Pharmaceutics, Tatyasaheb Kore College of Pharmacy Warananagar, Kolhapur Maharashtra, India.

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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.



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RESEARCH PAPERS

STUDIES ON SOLUBILITY ENHANCEMENT OF TELMISARTAN BY ADSORPTION METHOD

By

SHARAD KAMBLE *

SUNITA SHINDE **

* Department of Pharmaceutics, Nandan College of Pharmacy, Kavathe Mahankal, Sangli, Maharashtra, India.

** Department of Pharmaceutics, Tatyasaheb Kore College of Pharmacy Warananagar, Kolhapur, Maharashtra, India.

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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

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Abstract

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-SMEDDS) 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, pouter plots, normal 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 like in vitro DT10, DT50, DT90, DT95, DT99, DT99.5 and VDP% study. Results showed that drug releases from G.

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Academic Year 2018-19



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; abhisr5@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 Nagguri Indian buffalo breeds. The study demonstrated the protein, fat, lactose, total solid content, and percentage of casein of the raw milk for Nagguri, 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 < 0.05) in Mehsana milk as comparative to other milk treated samples of Nagguri and Bhadawari buffalos.

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DESIGN AND EVALUATION OF GUANFACINE EXTENDED RELEASE FORMULATION

*SANJEEVANI DESAI¹, DURGACHARAN BHAGWAT², SUNITA SHINDE¹, JOHN DISOUZA¹

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

Received: 21 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/45 % 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

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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.tkep@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 $79.7 \pm 5.6\%$ 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-vitro* 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

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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

^aTatyasaheb Kore College of Pharmacy, Warananagar, Tal: Panhala, Dist: Kolhapur, Maharashtra, India; ^bDepartment 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-

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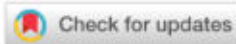
Shelf life stability of encapsulated lactic acid bacteria isolated from sheep milk thrived in different milk as natural media

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

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

Venkataiah Gudise^{1*}, Bimalendu Chowdhury² and Arehalli S. Manjappa³

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 *Argyrea* (*Argyrea 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 PPAR γ) 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 PPAR γ 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: *Argyrea pierreana*, *Matelea denticulata*, Antiradical activity, Antidiabetic activity, GLUT-4 and PPAR γ 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: venkatapharma22@gmail.com

¹Department of Pharmacology, SSJ College of Pharmacy, Vattinagalapaly, Gandipet, Hyderabad, Telangana State 500075, India

Full list of author information is available at the end of the article



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

Page | 70/113

Arehalli S Manjappa ^{1 2 3}, Rayasa S Ramachandra Murthy ²

Affiliations — collapse

Affiliations

- 1 a Department of Pharmaceutics, 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](https://doi.org/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.

Results: 10-O-7ED showed significant anticancer activity in B16F10 experimental metastasis mouse model.

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Research Article

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

Mayuresh Shinde^{1*}, Shitalkumar Patil², Manish Bhatia³, Dhanashri Patil⁴, Sanjay Mishra⁴

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

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

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

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

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*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

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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](#)

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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



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Page | 73/113

Research Article

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

Chopade Swapnil¹, Khabade Sheeba¹, Patil Aji³ and Powar Sayali²

¹Department of Pharmaceutics, Tatyasaheb Kore College of Pharmacy, Warananagar,
Tal- Panhala, Dist- Kolhapur, 416113, M.S., INDIA

²Department of Pharmaceutical Chemistry, Tatyasaheb Kore College of Pharmacy, Warananagar,
Tal- Panhala, Dist- Kolhapur, 416113, M.S., INDIA

³Department of Pharmacology, Tatyasaheb Kore College of Pharmacy, Warananagar, Tal- Panhala,
Dist- Kolhapur, 416113, M.S., INDIA

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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

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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

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

PDF

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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 Box-Behnken design. In factorial design we have selected two variables povidone and croscopovidone 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 I_{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

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Article

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

Page | 76/113

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Authors:



Arehalli S Manjappa

Shree Yashwant Shikshan Prasarak Man...



Popat S. Kumbhar

Tatyasaheb Kore College of Pharmacy, ...



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

R. D. GODAMBE, J. L. DISOUZA, C. M. JAMKHANDI¹, P. S. KUMBHAR

Tatyasaheb Kore College of Pharmacy Warananagar, Dist: Kolhapur (MS) India
Email: cmjamkhandi@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-phthalaldehyde.

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-phthalaldehyde. 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 µg/ml with regression coefficient (R^2) = 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

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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 Disouza¹

D. Y. Patil University¹, Centre for Interdisciplinary Research, Kolhapur - 416006, Maharashtra India.

Centre for Research and Technology Development², 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

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6/1/23, 5:14 AM

Pharmaceutical Product Development | Insights Into Pharmaceutical Proc

◀ Drug Design & Development (<https://www.taylorfrancis.com/search?subject=9C880136&context=abc>)

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Book



Page | 79/113

Pharmaceutical Product Development

Insights Into Pharmaceutical Processes, Management and Regulatory Affairs

Edited By Vandana B. Patravale, John L. Disouza, Maharukh Rustamjee

Edition	1st Edition
First Published	2016
eBook Published	9 March 2016
Pub. Location	Boca Raton
Imprint	CRC Press
DOI	https://doi.org/10.1201/b15979 (https://doi.org/10.1201/b15979)
Pages	447
eBook ISBN	9780429188817
Subjects	Bioscience, Engineering & Technology

■ Citation

ABSTRACT



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POLYMERS FOR PHARMACEUTICAL AND BIOMEDICAL APPLICATIONS

FUNDAMENTALS, SELECTION,
AND PREPARATION

EDITED BY
VANDANA PATRAVALE
JOHN I. DISOUZA
ALIASGAR SHAHIWALA



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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

Page | 81/113



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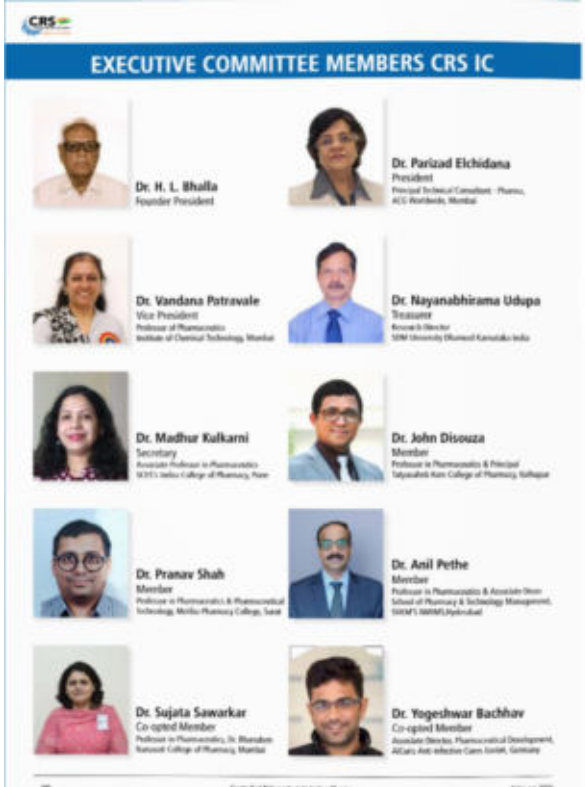


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Academic Year 2021-22

“Nanotechnology in Healthcare: Opportunities and Challenges



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From the President

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 takes volumes of our intellect and capabilities.

Side by side, advances are happening globally in the field of biotechnology, nanotechnology, 3D printing, personalized 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




DEPARTMENT OF PHARMACEUTICS, INSTITUTE OF PHARMACY, NIRMA UNIVERSITY

In association with
CONTROLLED RELEASE SOCIETY INDIAN CHAPTER
organizes

**One Day National Webinar on
"NANOTECHNOLOGY IN HEALTHCARE:
OPPORTUNITIES AND CHALLENGES"**

October 28, 2021
[Thursday]

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Institute of Pharmacy, Nirma University**
S.O. Highway, Ahmedabad - 382481, Gujarat, India
Website: <https://pharmacy.nirmauni.ac.in/>
E-mail: CRSIC.Nirma@nirmauni.ac.in

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

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Tatyasaheb Kore College of Pharmacy (TKCP), established in the year 2004 is NIRF 2017, 2018, 2021 ranked leading institutes of Western Maharashtra, catering Diploma, Degree, PG & Ph.D. courses in Pharmacy; with the mission 'To excel in professional pharmacy education through student centered learning, scholarly research and service to the society'. The college has state-of-the-art facilities, dedicated human resource & all necessary amenities to translate students into leaders. We genuinely strive to multi-round development of all stakeholders of professional pharmacy education, including teachers and students. Conducting such program is one noble step towards the goal.

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Phase II : 29-11-2021 to 04-12-2021
Phase III : 06-12-2021 to 11-12-2021

No registration Fee

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

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Phase II : 29-11-2021 to 04-12-2021
Phase III : 06-12-2021 to 11-12-2021

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**AICTE- ISTE Sponsored
One Week
Online
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on
Leveraging Academic Researchers on
Developing Diagnostic Kits, Vaccines
and Drug Product for Improved Therapy
Management Against Deadly Viruses:
Lesson Learnt from COVID-19**

13/12/2021 to 18/12/2021

No registration Fee
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One day National Seminar on Advances in Cancer Diagnostic and Therapeutics

CRS CONTROLLED RELEASE SOCIETY
INDIAN LOCAL CHAPTER

**Controlled Release Society
Indian Chapter**

**One Day National Seminar
Advances in Cancer
Diagnostics and Therapeutics**
5th January, 2022; 4 pm onward

Organized By
SWVSM's, Tatyasaheb Kore College of Pharmacy, Warananagar

Speakers

FREE

Watch on Youtube
<https://youtu.be/Z-7TD0slPaw>

Link to Join
<https://bit.ly/3eEarGh>

Dr. Krutika K Sawant
Dean, Faculty of Pharmacy, Kaladhavan Campus,
The Maharaja Sayajirao University of Baroda
**Topic: Theranostic Nanoparticles:
Potential Role in Simultaneous
Diagnosis and Treatment of Tumors**

Dr. Swati Biswas
Asso. Professor, Department of Pharmacy,
Birla Institute of Technology & Science-Plant,
Hyderabad
**Topic: Hypoxia-reversing Combination
Chemo-Photodynamic Therapy via
Nanomedicines for Oropharyngeal
Carcinoma**

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

Page | 87/113

**Hands-on-Training: Development and Stabilization Methods
for Nanoparticulate Drugs**

**One Day Workshop Under Category of
ACADEMIC EXTENSION AND RESEARCH,**



*Under Lead College Scheme, Shivaji University, Kolhapur
Wednesday, 9th March, 2022*

**Organized By
SWVSM's, Tatyasaheb Kore College of Pharmacy, Warananagar**

FREE Registration



Who can participate?
M. Pharm. Students
& Ph.D. Scholars

Link for Registration
<https://bit.ly/nano-hands-on-training>

Technical Experts
Expertise in the field of development
of Nonparticulate drugs
and their stabilization

- To impart basic techniques and tools involved in the formulation development and stabilization of nanoparticulate drugs
- To inculcate research skills and create a future pool of researchers in Nano-pharmaceuticals
- To encourage and motivate PG Students and Ph.D. Scholars for availing the recent advances in the nanotechnology research
- To provide demonstration, practical knowledge, & troubleshooting through hands-on-training on the development of diverse nanoformulations and their stabilization



Email : workshop.tkcp@gmail.com

**Contact: Dr. Arehalli Manjappa (9552826871)
Mr. Kiran Patil (7798884959)**

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**Academic Year 2020-21
Oral Delivery of Biologics**



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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.

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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.**

Page | 89/113

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--aoqLxukdTWAAbg/viewform?usp=pp_url

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



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

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Advances in Technology and Business Potential of New Drug Delivery Systems

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 Dr. Madhur Kulkarni Secretary Associate Professor in Pharmaceutics GITI, India College of Pharmacy, Pune	 Dr. John Dsouza Member Professor in Pharmaceutics & Principal Tatyasaheb Kore College of Pharmacy, Kolhapur
 Dr. Pranav Shah Member Professor in Pharmaceutics & Pharmaceutical Technology, Marathwada University College, Aurangabad	 Dr. Anil Petha Member Professor in Pharmaceutics & Associate Dean School of Pharmacy & Technology Management, IITM's, Mumbai, Maharashtra
 Dr. Sujata Sawarkar Co-opted Member Professor in Pharmaceutics, IIT, Bombay National College of Pharmacy, Mumbai	 Dr. Yogeshwar Bachhav Co-opted Member Associate Member, Pharmaceutical Development, MNCs, Andh Pradesh, Guntur, Andhra Pradesh

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, personalized 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




19th International e-Symposium


THIS IS TO HONOUR
Mr. Andy De
WITH A BEAUTIFUL TREE PLANTATION

Thank you for participating in the 19th International e-Symposium on
Advances in Technology and Business Potential of New Drug Delivery Systems
from 25th to 27th February 2021 as an Invited Speaker


GO GREEN TO SAVE THE PLANET


Dr. Parizad Elchidana
President, CRS Indian Chapter


Dr. Vandana Patrawale
Vice President, CRS Indian Chapter



PLANTED IN YOUR HONOUR



NURTURING FOR A GREENER FUTURE

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.

T. L. Bhale

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Warananagar**

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

About us

Shree Warana Vibhag Shikshan Mandal (SWVSM, est. 1964) is education revolution backed by co-operative industries; incepted by Sahakar-maharshi Late Shri. Tatyasaheb Kore to provide quality education to poor, deprived and deserving students. With the sprawling campus of 200 acres, the SWVSM houses K.G. to Ph.D. courses in basic and technical sciences.

About College

Tatyasaheb Kore College of Pharmacy (TKCP), established in the year 2004 is one of the leading institutes of Western Maharashtra catering Diploma, Degree, PG & Ph.D. courses in Pharmacy; with the mission 'To excel in Professional Pharmacy Education through student centered learning, scholarly research and service to the society'. The college has state-of-the art facilities, dedicated human resource & all necessary amenities to translate students into leaders. We genuinely strive to multi-round development of all stakeholders of professional pharmacy education, including teachers and students. Conducting such programme is one noble step towards the goal.

Patrons

Hon. MLA. Dr. Shri Vinayji Kore (Savkar)
President, Warana Industrial & Educational Complex, Warananagar
Hon. Prof. Anil Sahasrabudhe
Chairman, AICTE, New Delhi
Hon. Dr. Pratapsinh Desai
President, ISTE, New Delhi
Hon. Dr. Vasanti Rasam
Administrative Officer, Shree Warana Vibhag Shikshan Mandal, Warananagar
Hon. Prof. Vijay D. Vaidya
Executive Secretary, ISTE, New Delhi
Hon. Prof. Col. B. Venkat
Director, Faculty Development Cell, AICTE, New

Organising Committee

Coordinator
Dr. John I. Disouza
Principal, SWVSM's, Tatyasaheb Kore College of Pharmacy, Warananagar

Joint Coordinators
Mr. Kiran Patil (7798884959)
Dr. Amol Sherikar (9881901262)

Local Organising Committee (LOC)
Dr. Mahantesh Mattad (9850385969)
Mr. Mayuresh Shinde (9423329626)
Dr. Arehalli Manjappa (9552826871)
Mr. Vikram Potdar (9270649855)
Mrs. Sunita Shinde (9960892930)
Mrs. Shalaka Patki (9881446227)
Mr. Sandip Chavan (9421204929)
Mrs. Supriya Gaikawad (8983146900)
Mr. Popat Kumbhahr (7770039731)
Mr. Ajit Patil (9969280159)
Mrs. Sayali Powar (8983146900)
Mr. Swapnil Chopade (9595382666)

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One Week online
Induction/ Refresher
Programmes on**

**FOSTERING PEDAGOGY, RESEARCH
ADMINISTRATION:
VITAL DOMAINS FOR EFFECTIVE
PROFESSIONAL ACADEMIC CAREER**

Phase I : 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

No registration Fee

[Click here for Registration](#)

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VITAL DOMAINS FOR EFFECTIVE PROFESSIONAL ACADEMIC CAREER**

Phase I: 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

 Mr. M.A. Dr. Vinay Bane Associate Professor & Educational Consultant Inaugural/Valedictory Speech	 Mr. Prof. Dr. T. G. D. Yadav Faculty of Education & Emerging Professional Domains Keynote Address/Inaugural Speech	 Mr. Prof. Anil Sahasraochar Director, AICTE, New Delhi Keynote Address/Inaugural Speech	 Mr. Dr. Puligandhi Dasar Assistant, ISTE, New Delhi Keynote Address/Inaugural Speech	 Mr. Prof. Dr. J. T. Shinde Vice President, Shree Learning Alliance Keynote Address/Inaugural Speech	 Mr. Prof. Vijay D. Vaidya Executive Secretary, ISTE, New Delhi Inaugural Speech	 Mr. Prof. San. K. Yekar Executive Faculty Development Cell, ISTE, New Delhi Inaugural/Valedictory Speech	 Mrs. Dr. Yashvi Kulkarni Administrative Officer, Shree Warana Vibhag Shikshan Mandal, Warananagar Inaugural/Valedictory Speech	
 Dr. Vandana S. Patil Head of Administration, Institute of Pharmacy, Warananagar Research Culture and Ethics, Fostering Integrity	 Dr. A. K. Pawar College of Health Care, University of Science & Technology, Warananagar Research, Governance, Innovation and Impact	 Dr. Sanjay Patil Professor, Department of Chemical Sciences, IIT Bombay Process, Inter-Challenges and Opportunities	 Dr. Anandhi Bhargava Ambler's Design Thinking Program Design Thinking and Innovation	 Dr. S. K. Kadam Joint Director and Director, Higher Education and Skill Development, Government of Maharashtra Benchmarking for Improving Performance in Accreditation Process	 Dr. Pratik Patil Assistant Professor, Department of Pharmacy, Maharashtra State University, Warananagar Social Teaching and Learning Strategies in Pharmaceutical Calculations	 Dr. Subhrajit Sankar National Institute of Pharmaceutical Education and Research A Chemical Strategy Approach Towards Understanding Human Neurobiology of Disease	 Dr. Kiranraj Reddy Associate Professor, College of Pharmacy, Bharathiar University, Coimbatore Concept Learning Pedagogy	
 Dr. Prachi Desai Associate Professor, Institute of Pharmacy, Warananagar Creating an IP Awareness in Academic Research	 Mr. Pravin Patil Head, Institute of Pharmacy, Warananagar Expectations by Pharmacy Industry from Fresh Graduate	 Dr. Anurag Patil Dean, Institute of Pharmacy, Warananagar Active Learning with Flipped Classroom and Think-Pair-Share	 Prashant Kadamkar Assistant Professor, IIT Bombay Case Validation, Resilience & Self - IPF Advantage	 Dr. Anand Kadam Dean, Institute of Pharmacy, Warananagar Customer Based Education, ICT and Current Teaching Pedagogy	 Mr. Yashraj Patil Assistant Professor, Warananagar Work and Health Management through Yoga	 Dr. Anand Kadam Associate Professor, Institute of Pharmacy, Warananagar IPF 2020 Analysis: Strategies to Improve Academic Research to Regain Impact	 Dr. S. K. Kadam Assistant Professor, Institute of Pharmacy, Warananagar IPF 2020 Analysis: Strategies to Improve Academic Research to Regain Impact	 Mr. Anand Kadam Assistant Professor, Institute of Pharmacy, Warananagar IPF 2020 Analysis: Strategies to Improve Academic Research to Regain Impact

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Academic Year 2019-20

Industrial Pharmacy-III

**Faculty Development Centre
Institute of Chemical Technology**

**Department of Pharmaceutical
Sciences and Technology**
Nahatal Parekh Marg, Kolhanga (East),
Mumbai - 400019

Under the Scheme of
**Pandit Madan Mohan Malaviya
National Mission on Teachers and
Teaching (PMMNMTT)**
(MHRD, Govt. of India)

Based on RUSA, Government of
Maharashtra vision of Skill Development,
Faculty Development Centre (FDC) called
Centre for Education in Pharmaceutical
Sciences, Technology and Management
(CEPSTM) has been established at Institute
of Chemical Technology, Mumbai under the
scheme of Pandit Madan Mohan Malaviya
National Mission on Teachers and Teaching
(PMMNMTT) by MHRD, Government of
India.
The main objective of this centre is to serve as
the nodal agency for training pharmacy
teachers in the field of industrial pharmacy,
clinical data management and
pharmaceutical management with respect to
syllabus designed by RUSA, for the entire
India.

Chief - Patron
Hon. Dr. Shri. Vinayji V. Kore (Savkar)
President, Warana Industrial &
Educational Complex, Warananagar

Patron
Hon. Dr. Vasanti Rasam
Administrative Officer, Shree Warana
Vibhag Shikshan Mandal, Warananagar

Organizing Committee

Conveners
Dr. John Disouza, Principal, TKCP
Prof. Vikas Telvekar, ICT, Mumbai

Coordinators
Mr. Kiran Patil (7798884959)
Dr. Arehalli Manjappa (9552826871)

Committee Members
Dr. Mahantesh Mattad
Mrs. Sunita Shinde
Mrs. Shalaka Patki
Mr. Popat Kumbhar
Mr. Pratik Maske
Mrs. Sayali Power
Mr. Swapnil Chopade
Mr. Pritesh Lole

Industrial Pharmacy-III
Faculty Development Programme

9th-19th December, 2019

Organized by
Faculty Development Centre
Institute of Chemical
Technology (ICT), Mumbai

Venue
Shree Warana Vibhag Shikshan Mandal's
**TATYASAHEB KORE
COLLEGE OF PHARMACY**
WARANANAGAR
Taluka Panhala, District Kolhapur,
Maharashtra, Pin Code: 416113

Contact
Dr. John I Disouza: 07798885050
Prof. Vikas N. Telvekar: 09869539929
No registration fees and free accommodation.

Click here for
Registration <http://bit.ly/FDP-ICT-TKCP>

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Academic Year 2017-18

Pharma Entrepreneurs Conclave 2017

Pharma Entrepreneurs' Conclave 2017
Networking with Top-notch Pharma Entrepreneurs
28 SEPT 2017

ANNUAL ENTREPRENEURS' CONCLAVE
Thursday, 28th September 2017
INAUGURAL CEREMONY
In the auspicious presence of
Chief Guest
HON. DR. VINAYJI KORE (SAVKAR)
President, Warana Industrial & Educational Complex, Warananagar

Guest of Honor
HON. MRS. MANISHA PATIL
Assistant Commissioner - FDA, Kolhapur

Keynote Address
DR. VIJAY BAMBULKAR
Director - Ventures Development, Mumbai

BEST PHARMACIST AWARD
Entrepreneurs Conclave will bestow Distinguished Pharmacists with an Honor of 'BEST PHARMACIST AWARD' in recognition of their Outstanding Contribution in Social Welfare.

ENTREPRENEURS' FORUM
Panel Discussion with Top Pharma Entrepreneurs from Kolhapur, Sangli & Satara Districts

VINAY THAKUR
Mistair Health & Hygiene, Kolhapur

DILIP KADAM
Dipra Pharma, Kolhapur

DHANANJAY LAD
CROM Clinical Research

DILIP GUNE
SG Phyto Pharma, Kolhapur

VILAS KHIRE
Okasa Pharma Pvt Ltd, Satara

VINAY PATIL
Jayshwari Group, Sangli

TUSHAR DHIJA
Satara Pharma, Satara

SAMBHAR MANE
Wellness Forever, Sangli

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VENUE: VINAY KORE CULTURAL & SPORTS DEVELOPMENT CENTRE,
WARANA EDUCATIONAL COMPLEX, WARANANAGAR
Visit our website www.tkcpdwarana.org OR Contact 02328-223501 for more details

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One Day International Conference

on

Pharmaceutical Research: Fundamentals and Advanced Trends

Page | 95/113

The poster is a colorful graphic with a blue and white background. At the top, it features a molecular structure and laboratory glassware. The main title is 'International Conference on "Pharmaceutical Research: Fundamentals & Advanced Trends" 12th November, 2022'. Below the title, it lists the organizing institutions: SWVSM's Tatyasaheb Kore College of Pharmacy, Warananagar, Indian Pharmaceutical Association, Kolhapur Local Branch, and Shivaji University Pharmacy Principals Association. A 'Speakers' section lists five speakers with their photos and topics: Dr. Kamal Dua (Nanoparticulate approaches), Dr. Chukwuebuka Emmanuel Umeyor (Repositioning miconazole nitrate), Dr. Sachin Kumar Singh (Q&D approach), Dr. Manish Bhatia (Computational chemistry), and Dr. Namdeo Jadhav (Lipid-based drug delivery systems). The poster also includes registration details (fee 600/- Rs, link), a QR code for payment, and an organizing committee list with names and roles. Contact information for email, phone, and website is provided at the bottom.

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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	1 st Prize
2.	Onkar Patil	Poster Presentation	International Level	2020	Best Poster	1 st Prize
3.	Rajeshwari Patil	Poster Presentation	International Level	2020	Best Poster	1 st Prize
4.	Tejaswini Jadhav	Poster Presentation	National Level	2020	Best Poster	1 st 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		2 nd Prize
8.	Deepali Patil	National Level	Techno Pharma Model Presentation	2020		2 nd Prize
9.	Pradyumana Magdum	National Level	Techno Pharma Model Presentation	2020		2 nd Prize
10.	Rohini Kulkarni	National Level	Techno Pharma Model Presentation	2020		2 nd Prize
11.	Somesh Waghmode	State Level	Intercollegiate Competition in Microbiology	2020		1 st Prize
12.	Girish Parle	State Level	Intercollegiate Competition in Microbiology	2020		1 st Prize
13.	RutujaRhatwal	District Level	Avishkar	2020		1 st Prize
14.	Rajnandini Patil	District Level	Avishkar	2020		3 rd Prize

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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	1 st Prize
2.	Mr. P. P. Maske	Conference	Synthesis & Antimicrobial Activities of Some Novel Mercaptobenzimidazole Derivatives.	2018	Best Poster	1 st Prize
3.	Mrs. S. D. Gaikwad	Conference	Rational Design & Development of Novel Cadherin Inhibitors as Anticancer Agents.	2018	Best Poster	2 nd Prize
4.	Miss. M. S. Shete	Conference	Design, Development & Characterization of Curcumin Loaded Nanoemulsion.	2018	Best Paper	2 nd Prize
5.	Mr. K. S. Patil	Conference	A study of Impact of Medical Advertisement on Public Health	2018	Best Poster	2 nd 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	2 nd Prize
7.	Mr. K. S. Patil	National Level e-Poster Competition	“Development of Pharma Educational App in COVID-19 Pandemic”	2019	Special Appreciation	Special Appreciation



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		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	3 rd 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

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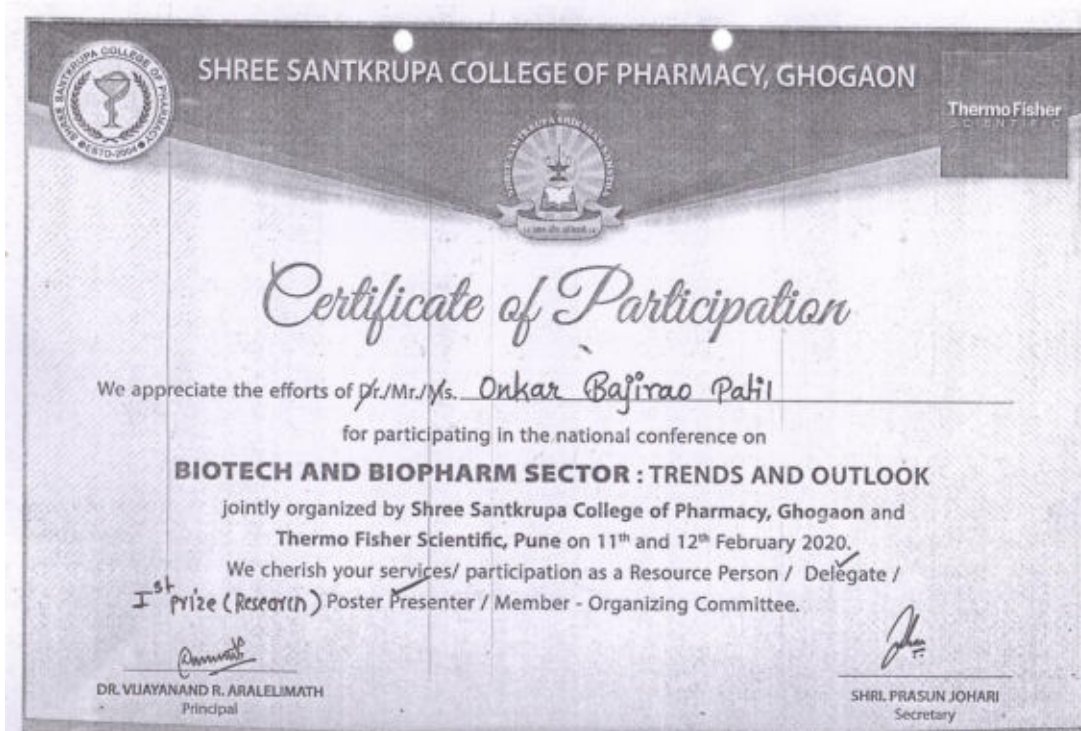


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(No: MMC/ACcre.cert/MED-0207/2013)
CPD Code: MMC/MAC/2020/F-014575)

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).

Sharma
Prof. Dr. Rakesh K. Sharma
(Convener)
Dean,
D. Y. Patil Medical College

C. Mohan
Prof. Dr. S. Mohan Karuppaiyl
(Convener)
Head and Professor,
Dept. of SCRM and MBT

Suraj Pawar
Dr. Suraj Pawar
Managing Director
Kolhapur Cancer Centre

Manish Khanna
Dr. Manish Khanna
President
ISCSG

Ashwini Jadhav
Dr. Ashwini Jadhav
Organizing Secretary

Arpita Pandey-Tiwari
Dr. Arpita Pandey-Tiwari
Organizing Secretary

Saijprasad Kavathekar
Dr. Saijprasad Kavathekar
MMC Observer
MMC/MAG-01302/2017



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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 Tech no pharma model Presentation
held during 29th February & 1st March, 2020.

Congratulation for your accomplishment !

Gurunath Machhale
Mr. Gurunath Machhale
(Convener, Vibrant 2020)

V.V. Kulkarni
Dr. V.V. Kulkarni
(Director, SGU)

B.M. Hirdekar
Dr. B.M. Hirdekar
(Registrar, SGU)

V.A. Raikar
Dr. V.A. Raikar
(Vice-Chancellor, SGU)

Vinayak Bhosale
Mr. Vinayak Bhosale
(Trustee, SGU)

Sponsors: Path Soeds, JUNIOR, STAR-air, FORTUNE, GEMSERVIS

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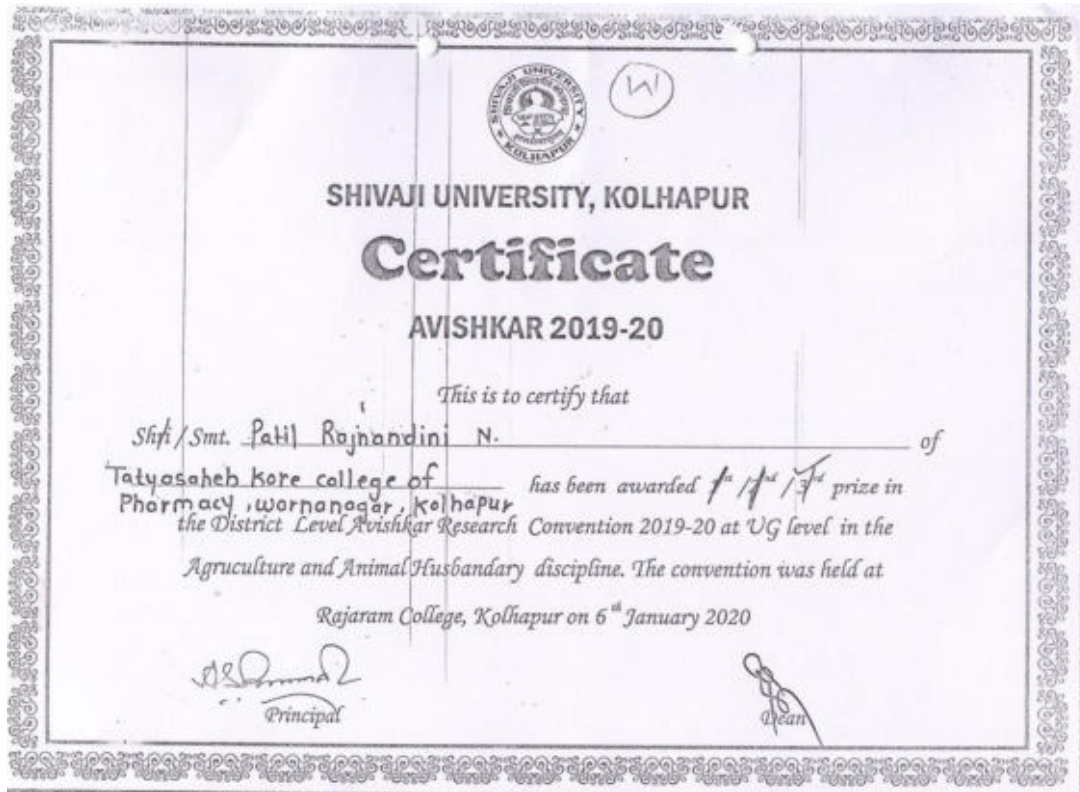
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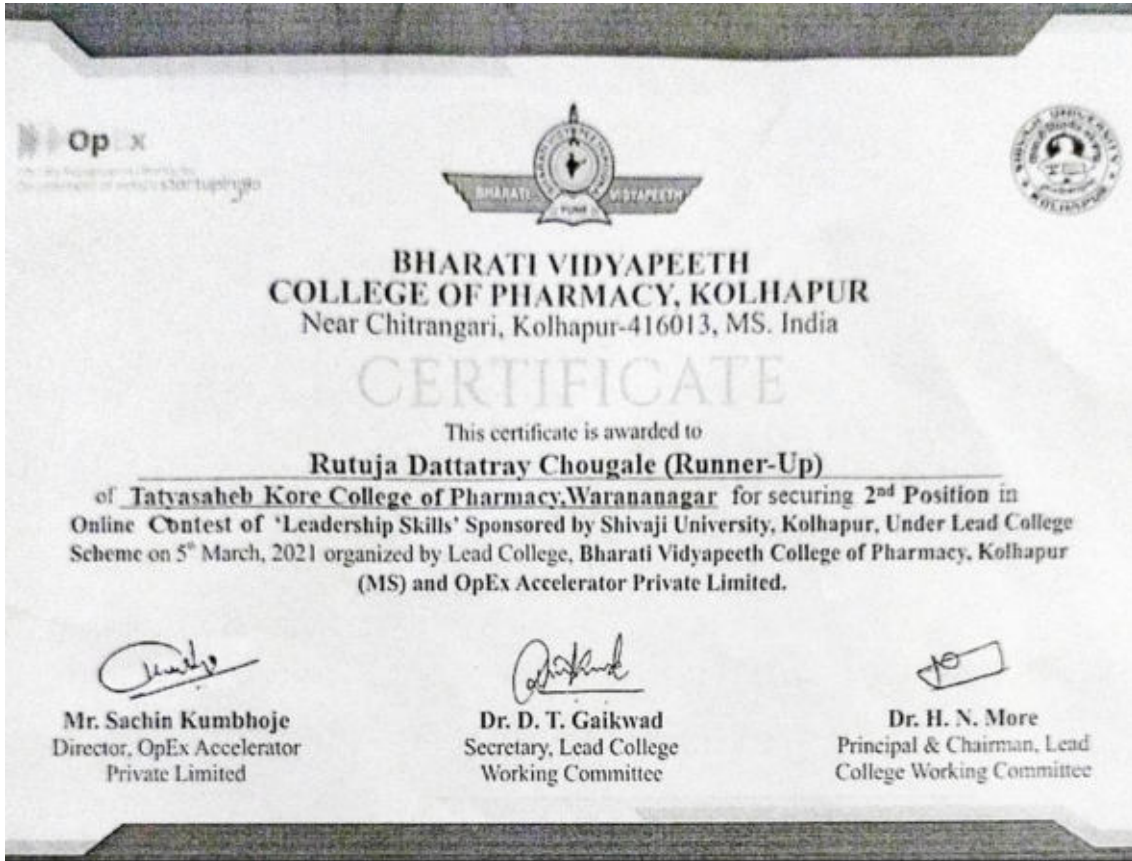
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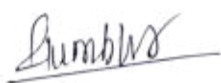
Intellectual Property Rights

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-inflammatory, analgesic and smooth muscle relaxant activity	Dr. A. S. Sherikar	02/04/2010



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Tatyasaheb Kore College of Pharmacy,
Warananagar**

Tal: - Panhala, Dist.: - Kolhapur, Maharashtra, India, Pin 416 113

(12) PATENT APPLICATION PUBLICATION (21) Application No.202221024815 A
(19) INDIA
(22) Date of filing of Application :27/04/2022 (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 :NA
Filing Date :NA
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(61) Patent of Addition to Application Number :NA
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Filing Date :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-shashiprathmeshb@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



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Department of Industrial Policy & Promotion,
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Government of India

Page | 110/113

Application Details

APPLICATION NUMBER	202121023742
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/05/2021
APPLICANT NAME	1 . Ms. Hemalata Sahasrao 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	

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Gumbhar

Checked by

K. Patel

Approved by

P. P.

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Warananagar

Tal: - Panhala, Dist.: - Kolhapur, Maharashtra, India, Pin 416 113

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

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Tatyasaheb Kore College of Pharmacy,
Warananagar

Tal: - Panhala, Dist.: - Kolhapur, Maharashtra, India, Pin 416 113

(12) PATENT APPLICATION PUBLICATION

(21) Application No. 201921009581 A

(19) INDIA

(22) Date of filing of Application :12/03/2019

(43) Publication Date : 19/04/2019

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

(51) International classification

:A61K

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(31) Priority Document No

:NA

(32) Priority Date

:NA

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:NA

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: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

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Warananagar**

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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
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Tal: - Panhala, Dist.: - Kolhapur, Maharashtra, India, Pin 416 113

(12) PATENT APPLICATION PUBLICATION (21) Application No.2021/MUM/2008 A
(19) INDIA
(22) Date of filing of Application :22/09/2008 (43) Publication Date : 02/04/2010

(54) Title of the invention : SYNTHESIS OF PHENYL NITRATE DERIVATIVES OF FREE CARBOXYLIC ACID GROUP CONTAINING NSAIDS AS CYCLOOXYGENASE 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
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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



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