



**VIVEKANAND EDUCATION SOCIETY'S
COLLEGE OF PHARMACY**

Hashu Advani Memorial Complex, Behind Collector Colony, Chembur (E), Mumbai – 400 074

Sindhi Linguistic Minority, Approved by AICTE, DTE, Pharmacy Council of India & Govt. of Maharashtra, Affiliated to University of Mumbai

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3.3.2

**Number of research papers per
teachers in the Journals notified on
UGC website during the last five
years**

This Document contains the following sections

Section 1: Proof of research publication titled “N-methyl-D-aspartate (NMDA) Receptors: Potential Target for Neurodegenerative diseases” authored by Dr Rakesh R Somani and Dr Sandip Zine
(LINK TO THIS ARTICLE WAS NOT AVAILABLE IN THE DATA TEMPLATE)

Section 2: Additional Information

- **Section 2.1 :** List of patents published/granted in the last five years
- **Section 2.2 :** Proofs of patents published/granted in the last five years

Section 1

Proof of research publication titled “N-methyl-D-aspartate (NMDA) Receptors: Potential Target for Neurodegenerative diseases” authored by Dr Rakesh R Somani and Dr Sandip Zine

(LINK TO THIS ARTICLE IS NOT AVAILABLE IN THE DATA TEMPLATE)

Title of the article: N-methyl-D-aspartate (NMDA) Receptors:
Potential Target for Neurodegenerative diseases

Authors: Dr. Rakesh Somani, Dr. Sandip Zine

Journal: Biopharm Journal **ISSN no:** 2454-1397

Year: 2017

Biopharm Journal. 2017, 1(1), 01-13

ISSN: 2454-1397

REVIEW ARTICLE

**N-METHYL-D-ASPARTATE (NMDA) RECEPTORS: POTENTIAL TARGET FOR
NEURODEGENERATIVE DISEASES**

Sandip Zine*, Rakesh Somani, Pooja Dubey, Sarita Kunchikorve

Department of Pharmaceutical Chemistry, Vivekanand Education Society's College of Pharmacy, Chembur (E), Mumbai, 400 074, Maharashtra, India

[Received on: 12th Jan, 2017

Accepted on: 27th Feb 2017

Published on: 02 March 2017

Abstract

The N-methyl-D-aspartate (NMDA) receptor is a glutamate receptor which is the predominant molecular device for controlling synaptic plasticity and memory function. N-methyl-D-aspartate is the name of a selective agonist that binds to NMDA receptors but not to other 'glutamate' receptors. Neurodegenerative diseases are caused due to neurodegeneration. NMDA with Glutamate bound results in increase of intracellular Calcium levels which results in slow degeneration of neurons. Hence, for neuroprotection one can target NMDA receptor antagonists. The use of low affinity NMDA antagonists like Memantine for reducing NMDA receptor-mediated excitotoxicity features the importance of developing NMDA receptor-based therapies with different pharmacological profiles for treating brain disorders. The success of this strategy could be further enhanced by better understanding the subunit-specific mechanisms involved in individual disorders. The main objective of this is development of new NMDA receptor-based treatments with greater therapeutic benefits and fewer side effects.

Keywords: Excitotoxicity, glutamate, Memantine, neurodegeneration, NMDA antagonists.

INTRODUCTION

Neurodegeneration causes the gradual deterioration in a person's cognitive abilities and memory. Such neurodegenerative diseases are Alzheimer's disease (AD), Parkinson's disease (PD). These diseases share certain abnormalities (Weihmuller, et al., 1992). For example, the neurofibrillary tangles and neuritic plaques are seen in PD patients which are actually characteristics of AD (Boller, et al., 1980). Also, presence of cortical and subcortical Lewy bodies (Hansen, et al., 1990). seen in some AD patients with loss of dopaminergic processes in the putamen (Allard, et al., 2008) which is a characteristic of PD. Moreover, some AD patients show extrapyramidal symptoms (Cummings, et al., 1986) and some PD individuals suffer from dementia (Molsa, et al., 1984, Leverenz, et al., 1986). PD is well characterized by impairment in dopaminergic transmission (Mann, et al., 1992). Evidences show the involvement of glutamatergic system in PD. The excitatory glutamatergic input from the cortex is received in striatum and substantia nigra (Carter, 1982, Fonnum, 1984, Francis, et al., 1993) and some of those glutamatergic neurons that have dopaminergic receptors regulate the release of glutamate (Mitchell and Doggett 1980, Crowder and Bradford, 1987). On the other hand, DA release in the striatum and substantia nigra is stimulated by L-glutamate or other excitatory amino acid receptor

* Corresponding author

E-mail address: sandip.zine@ves.ac.in

Section 2

(Additional Information)

- **Section 2.1** : List of patents published/granted in the last five years
- **Section 2.2** : Proofs of patents published/granted in the last five years

Section 2.1: List of patents published/granted in the last five years

Sr. No.	Patent Application No.	Filing Date	Publication Date	Patent No.	Grant Date	Title of Invention	Status	Inventors	Applicant
1	1341/MUM/2013	09/04/2013	10/04/2015	Not Yet Granted	NA	Novel Oral Drug Delivery System For The Treatment of Allergic Asthma	FER Completed	Dr. Supriya Shidhaye, Ms. Chaitali Surve	VESCOP
2	3800/MUM/2013	04/12/2013	07/08/2015	325915	27/11/2019	Curcumin Microemulgel	Patent Granted	Dr. Rajashree Hirlekar, Ms. Samruddhi Rane,	VESCOP
3	1679/MUM/2015	27/04/2015	05/05/2017	Not Yet Granted	NA	Novel Oral Lipid Based Formulations And Processes Of Preparation Thereof	FER Completed	Dr. Supriya Shidhaye, Ms. Ruchi Singh, Ms. Chaitali Surve, Ms. Bhagyashree Parab	VESCOP
4	201721010423	24/04/2017	26/10/2018	Not Yet Granted	NA	Topical Film Forming Gel Of An Antifungal Agent	FER Waiting	Mrs. Harsha Kathpalia, Ms. Neha Sathe	VESCOP
5	201821017013	04/05/2018	08/11/2019	Not Yet Granted	NA	Pulsatile Drug Delivery System For Treatment Of Pulmonary Hypertension	FER Waiting	Dr. Supriya Shidhaye, Ms. Teeja Suthar	VESCOP
6	201921053349	23/12/2019	26/06/2021	Not Yet Granted	NA	Sustained Release Nail Lacquer Of An Azole Antifungal Agent For Onychomycosis	Published	Dr. Supriya Shidhaye, Ms. Shivali Tank	VESCOP

Section 2.2

Proofs of patents published/granted in the last five years

FORM 2

THE PATENTS ACT, 1970
(39 of 1970)

P.S. Kharkar
~~PROVISIONAL~~ ~~COMPLETE~~ SPECIFICATION
& The Patents Rules, 2006
(See section 10; rule 13)

1. Title of the invention. - "NOVEL ORAL DRUG DELIVERY SYSTEM FOR THE TREATMENT OF ALLERGIC ASTHMA"

2. Applicant(s)

- (a) NAME : VIVEKANAND EDUCATION SOCIETY'S COLLEGE OF PHARMACY
(b) NATIONALITY: INDIAN
(c) ADDRESS : Hashu Advani Memorial Complex, Behind Collector Colony, Chembur (E), Mumbai - 400074, Maharashtra, India.

3. PREAMBLE TO THE DESCRIPTION

The following specification describes the invention.



SS
Dr. (Mrs.) Supriya S. Shidhaye
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HAMC, Behind Collector Colony,
Chembur, Mumbai - 400 074.

FORM 18
THE PATENTS ACT, 1970
(39 of 1970)
&
The Patents Rules, 2006
REQUEST /EXPRESS REQUEST FOR
EXAMINATION OF APPLICATION FOR PATENT
[See section 11B and rules 20(4) (ii), 24B (1) (i)]

(FOR OFFICE USE ONLY)

RQ No :
Filing Date :
Amount of Fee Paid :
CBR No :
Signature :

1. APPLICANT(S)/ OTHER INTERESTED PERSON(S)

- (a) Name: Vivekanand Education Society's College of Pharmacy
(b) Nationality: Indian
(c) Address: Hashu Advani Memorial Complex, behind Collector Colony, Chembur (E), Mumbai - 400074, Maharashtra, India

(d) Date of publication of the application under section 11A 10/04/2015]

2. STATEMENT IN CASE OF REQUEST FOR EXAMINATION MADE BY THE APPLICANT(S)

We hereby request that our application for patent application no. 1341/MUM/2013 filed on 9th April, 2013 for the invention titled "NOVEL ORAL DRUG DELIVERY SYSTEM FOR THE TREATMENT OF ALLERGIC ASTHMA" shall be examined under sections 12 and 13 of the Act.

Or

~~I/We hereby make an express request that my/our application for patent no. filed on based on Patent Cooperation Treaty (PCT) application no. dated made in country shall be examined under sections 12 and 13 of the ACT, immediately without waiting for the expiry of 31 months as specified in rule 20(4)(ii).~~

3. STATEMENT IN CASE OF REQUEST FOR EXAMINATION MADE BY ANY OTHER INTERESTED PERSON

~~I/We interested person request for the examination of the application no.
Dated filed by the applicant
titled~~

~~under sections 12 and 13 of the Act.~~

~~As an evidence of my/our interest in the application for patent following documents are submitted.~~

- (a)
(b)

4. ADDRESS FOR SERVICE

Ms. Pallavi Kharikar
IPRAM Intellectual Property Services
716, Swastik Disa Corporate Park,
L.B.S. Marg, Ghatkopar (W),
Mumbai-400086
Maharashtra, India

Telephone No. +91(0)22 25004464
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Chembur, Mumbai - 400 074

The Controller of Patents
The Patent Office
Mumbai

Dear Sir,

Re: New Patent Application
Title: **Novel oral drug delivery system for the treatment of allergic
asthma**
Applicant: **VIVEKANAND EDUCATION SOCIETY'S COLLEGE OF
PHARMACY**

In connection with the above new patent application we submit herewith the following:

- (a) Application Form-1.
(b) Form 2 Provisional specification, No. of pages ____ (in duplicate).
(c) Statement and undertaking on Form 3 (in Duplicate).
(d) Declaration of Inventorship on Form 5 (in Duplicate)
(e) Power of Attorney on Form 26

To Follow: Formal Power of Attorney on Form 26

The Government filing fee is calculated as follows:

1. Extra pages (in excess of 30)..... None = Rs. -
2. Application Fee..... = Rs. 4000.00

Total Fee of Rs.4000/- in cheque bearing No 348666 dated April 9, 2013 drawn on Central Bank of India, Vikhroli branch.

The above documents may kindly be taken on record.

Yours faithfully,

P. S. Kharkar.

Ms. KHARKAR PALLAVI SHASHIKANT
Applicants' Agent

Encl. a/a

PRAM.net | 23, agastha, Godrej garden Enclave, Pirojshanagar,
Vikhroli (E), Mumbai 79, Maharashtra, India



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PATENT OFFICE
 INTELLECTUAL PROPERTY BUILDING
 S.M. Road, Airport Road, Mumbai-400 037
 Tel No. (022) 24387701, 24343025 Fax No. (022) 24350387
 E-mail: MumbaiPatent@nic.in
 Web Site: www.pindia.gov.in



Date/Time
 09/04/2013
 Agent Number

Docket NO : 6844

To
 MS. KHARKAR PALLAVI SHASHIKANT OF IPRAM
 25, AGASTHA, GODREJ GARDEN ENCLAVE, PIROJSHANAGAR, VIKHROLI (E), MUMBAI-400 079,
 MAHARASHTRA, INDIA.

Sr. No.	CER Number	Reference Number / Application Type	Application Number	Title/Remarks	Amount Paid	Amount Computed
1	4E71	ORDINARY APPLICATION Pages:-15, Claims:-0	1341/MUM/2013	"NOVEL ORAL DRUG DELIVERY SYSTEM FOR THE TREATMENT OF ALLERGIC ASTHAMA".	4000	4000
2		E-101/18311/2013-MUM	1341/MUM/2013	Correspondence	0	0
3		E-2/1573/2013-MUM	1341/MUM/2013	Form2	0	0
4		E-3/1223/2013-MUM	1341/MUM/2013	Form3	0	0
5		E-5/933/2013-MUM	1341/MUM/2013	Form5	0	0
6		E-45/518/2013-MUM	1341/MUM/2013	Form26	0	0
Total Amount					4000	4000

Received a sum of Rs. 4000 (Rupees Four Thousand only) as under

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Cheque	CENTRAL BANK	342666	09/04/2013	4000

Note: This is electronically generated receipt hence no signature required.

* This receipt is issued subject to realization of cheque. In case the amount of fee as mentioned on cheque is not realized, the document so filed shall be deemed to have not been filed at the office under section 142(3) of the Patents Act 1970.



[Signature]
 Dr. (Mrs.) Supriya S. Shidhaye
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 Chembur, Mumbai - 400 074.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.3800/MUM/2013 A

(19) INDIA

(22) Date of filing of Application :04/12/2013

(43) Publication Date : 07/08/2015

(54) Title of the invention : CURCUMIN MICROEMULGEL

(51) International classification :A61K
36/9066
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA


(71)Name of Applicant :
1)HIRLEKAR RAJASHREE SHREERAM
Address of Applicant :C-111, PALM ACRES, MAHATMA
PHULE ROAD, GAVANPADA, MULUND (E), MUMBAI-
400081, MAHARASHTRA, INDIA
2)RANE SAMRUDDHI SUBHASH
(72)Name of Inventor :
1)HIRLEKAR RAJASHREE SHREERAM
2)RANE SAMRUDDHI SUBHASH

(57) Abstract :

The present invention provides oil in water microemulsion of curcumin using novel oily phase containing 1:1 eutectic mixture of camphor and menthol. Further invention also provides topical formulations also known as microemulgels containing oil in water microemulsion of curcumin comprising 1:1 eutectic mixture of camphor and menthol. Microemulgels of curcumin comprises of novel poly / emulsifier / gelling agent SEPINEO P 600. The invention also provides process of preparation of microemulsions and microemulgels.

No. of Pages : 39 No. of Claims : 10




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The Patent Office Journal 07/08/2015

47432

FORM 2

**THE PATENTS ACT, 1970
(39 of 1970)
&
The Patents Rules, 2003
COMPLETE SPECIFICATION
(See section 10; rule 13)**

1. TITLE OF THE INVENTION: – “Novel oral lipid based formulations and processes of preparation thereof”

2. APPLICANTS

a) NAME : SHIDHAYE, Supriya Shrihari
b) NATIONALITY : Indian
c) ADDRESS : Flat no303, 3rd floor, Plot no.96, Hari Nivas, Sindhi Society, Chembur (E), Mumbai-400071, Maharashtra, India.

a) NAME : SINGH, Ruchi Omprakash
b) NATIONALITY : Indian
c) ADDRESS : FlatNo.402, Navkar Appartment, Laxminarayan Lane Matunga (E) Mumbai-400019, Maharashtra, India

a) NAME : SURVE, Chaitali Vibhakar
b) NATIONALITY : Indian
c) ADDRESS : A/36, Nirmala Nivas, Aai-Mai Merwanji Street, Parel Mumbai-400012, Maharashtra, India.

a) NAME : PARAB, Bhagyashri Surendra
b) NATIONALITY : Indian
c) ADDRESS : 3/304, Indraprastha Building Opp. Jayhind Talkies Dr. B.A. Road, Lalbaug Mumbai-400012, Maharashtra, India

3. PREAMBLE TO THE DESCRIPTION

The following specification particularly describes the invention and the manner in which it is to be performed.




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Application Details

APPLICATION NUMBER	201721010423
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	24/04/2017
APPLICANT NAME	Vivekanand Education Society's College of Pharmacy
TITLE OF INVENTION	"TOPICAL FILM FORMING GEL OF AN ANTIFUNGAL AGENT"
FIELD OF INVENTION	PHARMACEUTICALS
E-MAIL (As Per Record)	pallavi@ipram.net
ADDITIONAL-EMAIL (As Per Record)	sonali@ipram.net
E-MAIL (UPDATED Online)	
PRIORITY DATE	NA
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	26/10/2018




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Chembur, Mumbai - 400 074.

Controller General of Patents, Designs &
Trade Marksसत्यमेव जयते
G.A.R.6
[See Rule 22(1)]
RECEIPT

Docket No 11711

Date/Time 2017/03/24 15:16:52

PALLAVI S. KHARKAR 716, Swastik
Disa Corporate Park, Opposite Shreyas
Cinema, L.B.S Marg, Ghatkopar (W)
Email: pallavi@ipram.net

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Fee Payment	Remarks
1	201721010423	TEMP/E-1/10611/2017-MUM	6400	7385	Full	"Topical Film forming gel of an antifungal agent"

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
N-0000254782	Online Bank Transfer	02806342403201750305	6400.00	1475001020000001


Total Amount : ₹ 6400

Amount in Words: Rupees Six Thousand Four Hundred Only

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Controller General of Patents, Designs &
Trade Marks



सत्यमेव जयते
C.A.R 6
[See Rule 22(1)]
RECEIPT



Docket No 20613

Date/Time 2018/05/04 19:31:24

To
PALLAVI S. KHARKAR

Userid: pallavikha

716, Swastik Dico Corporate Park,
Opposite Shreyas Cinema, L.D.S
Marg, Chhatkopar (W)

CBR Detail:

Sr No	Ref. No./Application No	App. Number	Amount Paid	C.E.R. No.	Form Name	Remarks
1	201821017013	TEMP/E-1/17976/2018-MUM	4000	8317	FORM 1	PULSATILE DRUG DELIVERY SYSTEM FOR TREATMENT OF PULMONARY HYPERTENSION
2	E-106/214/2018/MUM	201821017013	0	---	FORM 123	---

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C. No
N-0000372840	Online Bank Transfer	02806340405201851121	4000.00	147500102000001

Total Amount : ₹ 4000

Amount in Words: Rupees Four Thousand Only

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<https://ipindiaonline.gov.in/epatentfiling/CBRReceipt/printCBRRceipt>

04-05-2018

FORM 2

**THE PATENTS ACT, 1970
(39 of 1970)
&
The Patents Rules, 2003
PROVISIONAL SPECIFICATION
(See section 10; rule 13)**

1. TITLE OF THE INVENTION: -

"SUSTAINED RELEASE NAIL LACQUER OF AN AZOLE ANTIFUNGAL AGENT FOR ONYCHOMYCOSIS"

2. APPLICANT:

- a) NAME : Vivekanand Education Society's College of Pharmacy
b) NATIONALITY : Indian
c) ADDRESS : Hashu Advani Memorial Complex, Behind Collector Colony, Chembur (E), Mumbai-400074 Maharashtra, India

3. PREAMBLE TO THE DESCRIPTION

The following specification describes the invention.



MS
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12/23/2019

PATENT eFiling

Welcome PALLAVI S KHARKAR 

Controller General of Patents, Designs & Trade
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Tel No: (091)(022) 241377010, 24141028 Fax No: 022
24130307
E-mail: mumbai-patent@nic.in
Web Site: www.ipindia.gov.in



राजपतेन प्रपत
G.A.R.6
[See Rule 22(1)]
RECEIPT



Docket No 66237

Date/Time 2019/12/23 10:50:18

To
PALLAVI S. KHARKAR

Userid: pallavikha

716, Swastik Disha Corporate Park, Opposite
Shreyas Cinema, L. B. S Marg, Ghatkopar
(W)

CBR Detail:

Sl. No.	IC-I No./ Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1	E-106/851/2019/MUM	201921053349	0	---	FORM 28	
2	201921053349	TEMP/E-1/56382/2019-MUM	4000	27595	FORM 1	"SUSTAINED RELEASE NAIL LACQUER OF AN AZOLE ANTIFUNGAL AGENT FOR ONYCHOMYCOSIS"

Transaction ID	Payment Mode	Challan Identification Number	Amount Paid	Head of A.C. No.
N-0000595165	Online Bank Transfer	231219000822	4000.00	147500102000001

Total Amount : ₹ 4000

Amount in Words: Rupees Four Thousand Only

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1/1