

VELS



INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)

(Deemed to be University Estd. u/s 3 of the UGC Act, 1956)

PALLAVARAM - CHENNAI

ACCREDITED BY **NAAC** WITH '**A**' GRADE

INSTITUTION WITH **UGC 12B** STATUS

NIRF 2023

PHARMACY

PATENT PUBLISHED 2019



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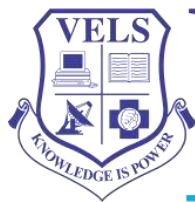
Application Details

APPLICATION NUMBER	201941045090
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	06/11/2019
APPLICANT NAME	THE REGISTRAR VELS INSTITUTE OF SCIENCE TECHNOLOGY&ADVANCED STUDIES(VISTAS)
TITLE OF INVENTION	A METHOD TO ENHANCE BLOOD BRAIN BARRIER PERMEABILITY OF CURCUMIN
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	registrar@velsuniv.ac.in
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	15/11/2019

Application Status

APPLICATION STATUS	Awaiting Request for Examination
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NIRF 2023

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Application Details

APPLICATION NUMBER	202041025466
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/06/2020
APPLICANT NAME	VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)
TITLE OF INVENTION	UNFOLDING TYPE OF GASTRO RETENTIVE FILM OF ANTI-EPILEPTIC AGENT: FORMULATION AND OPTIMIZATION
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	17/06/2020
PUBLICATION DATE (U/S 11A)	03/07/2020

Application Status

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Application Details

APPLICATION NUMBER	202041025459
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/06/2020
APPLICANT NAME	Vels Institute of Science, Technology & Advanced Studies (VISTAS)
TITLE OF INVENTION	SYNTHESIS, CHARACTERIZATION AND BIOLOGICAL EVALUATION OF SOME NEW QUINOLINYL CHALCONE DERIVATIVES
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	17/06/2020
PUBLICATION DATE (U/S 11A)	03/07/2020
REPLY TO FER DATE	25/08/2021

Application Status

APPLICATION STATUS	Application Refused U/S 15
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Order(s)/Decision(s)

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Application Details

APPLICATION NUMBER	202041025416
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/06/2020
APPLICANT NAME	VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)
TITLE OF INVENTION	DEVELOPMENT OF DRUG DELIVERY SYSTEM FOR HELMINTHIASIS
FIELD OF INVENTION	FOOD
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	17/06/2020
PUBLICATION DATE (U/S 11A)	03/07/2020

Application Status

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Application Details

APPLICATION NUMBER	202041025446
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/06/2020
APPLICANT NAME	Vels Institute of Science Technology & Advanced Studies(VISTAS)
TITLE OF INVENTION	PERYLENE-DI IMIDES ANALOGUES AS POTENT APOPTOSIS INDUCER AND EFFICACIOUS ANTICANCER AGENT
FIELD OF INVENTION	BIOTECHNOLOGY
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	17/06/2020
PUBLICATION DATE (U/S 11A)	03/07/2020

Application Status

APPLICATION STATUS	Application Awaiting Examination
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Application Details

APPLICATION NUMBER	202041025429
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/06/2020
APPLICANT NAME	VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)
TITLE OF INVENTION	REVERSAL OF DIABETIC RETINOPATHY IN MODIFIED PROLIFERATIVE DIABETIC RETINOPATHY MODEL IN RATS USING TRADITIONAL INDIAN MEDICINAL PLANTS
FIELD OF INVENTION	BIOTECHNOLOGY
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	17/06/2020
PUBLICATION DATE (U/S 11A)	03/07/2020

Application Status

APPLICATION STATUS	Application Awaiting Examination
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Application Details

APPLICATION NUMBER	202041025464
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/06/2020
APPLICANT NAME	VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)
TITLE OF INVENTION	MOLECULAR DOCKING STUDIES FOR ANTITUBERCULAR ACTIVITY, SYNTHESIS, CHARACTERISATION AND ANTIMICROBIAL EVALUATION OF AZETIDINE-2-ONE DERIVATIVE
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	17/06/2020
PUBLICATION DATE (U/S 11A)	10/07/2020
REPLY TO FER DATE	08/07/2021

Application Status

APPLICATION STATUS	Application Refused U/S 15
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Application Details

APPLICATION NUMBER	202041031469
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	23/07/2020
APPLICANT NAME	VELS INSTITUTE OF SCIENCE TECHNOLOGY ADVANCED STUDIES(VISTAS)
TITLE OF INVENTION	TASTE MASKING ANTI-EPILEPTIC ION-EXCHANGE RESINATES IN SOLID-STATE: FORMULATION OF LIQUID SUSPENSION FOR PEDIATRIC APPLICATION
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	23/07/2020
PUBLICATION DATE (U/S 11A)	31/07/2020
REPLY TO FER DATE	06/08/2021

Application Status

APPLICATION STATUS	Application Refused U/S 15
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Application Details

APPLICATION NUMBER	202041035029
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	14/08/2020
APPLICANT NAME	Vels Institute of Science, Technology & Advanced Studies (VISTAS)
TITLE OF INVENTION	ROLE OF POLIO VIRUS ANTIGEN IN MODULATING THE BETA-CELL AUTOIMMUNITY IN TYPE 1 DIABETES MELLITUS
FIELD OF INVENTION	BIOTECHNOLOGY
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	14/08/2020
PUBLICATION DATE (U/S 11A)	28/08/2020

Application Status

APPLICATION STATUS	Application Awaiting Examination
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Application Details

APPLICATION NUMBER	202041035022
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	14/08/2020
APPLICANT NAME	VELS INSTITUTE OF SCIENCE, TECHNOLOGY& ADVANCED STUDIES (VISTAS)
TITLE OF INVENTION	DEVELOPMENT AND CHARACTERIZATION OF SQUALENE LOADED TOPICAL EMULGEL SCAFFOLD: CELLULAR PROLIFERATIVE POTENTIAL AND REGENERATION IN FULL THICKNESS BURNT MODEL.
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.co
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	14/08/2020
PUBLICATION DATE (U/S 11A)	28/08/2020

Application Status

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➡ Disposed



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Application Details

APPLICATION NUMBER	202041036030
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	21/08/2020
APPLICANT NAME	VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)
TITLE OF INVENTION	APPARATUS FOR SCREENING, EVALUATION AND IN VITRO-IN VIVO CORRELATION OF ANTI-DIABETIC ACTIVITY
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	21/08/2020
PUBLICATION DATE (U/S 11A)	04/09/2020

Application Status

APPLICATION STATUS	Application referred u/s 12 for examination.
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Application Details

APPLICATION NUMBER	202041040457
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	18/09/2020
APPLICANT NAME	VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)
TITLE OF INVENTION	ANTIBACTERIAL AND ANTIFUNGAL ACTIVITY OF NANO HERBAL GEL FROM THE ETHANOLIC EXTRACT OF THE STEM BARK OF BAUHINIA VARIEGATA
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	18/09/2020
PUBLICATION DATE (U/S 11A)	02/10/2020
REPLY TO FER DATE	14/09/2021

Application Status

APPLICATION STATUS	Reply Filed. Application in amended examination
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Application Details

APPLICATION NUMBER	202041040467
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	18/09/2020
APPLICANT NAME	Vels Institute of Science, Technology & Advanced Studies (VISTAS),
TITLE OF INVENTION	COMBINATION OF BIOFLAVONOIDS RUTIN AND BERBERINE NANOPARTICLES FOR ITS ANTICANCER ACTIVITY
FIELD OF INVENTION	TRADITIONAL KNOWLEDGE CHEMICAL
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	18/09/2020
PUBLICATION DATE (U/S 11A)	02/10/2020

Application Status

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➡ Disposed



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Application Details

APPLICATION NUMBER	202041040465
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	18/09/2020
APPLICANT NAME	VELS INSTITUTE OF SCIENCE, TECHNOLOGY& ADVANCED STUDIES(VISTAS)
TITLE OF INVENTION	DEVELOPMENT OF LUMEFANTRINE LOADED SEDDS: AN ATTEMPT TO IMPROVE THE ANTIMALARIAL EFFICACY AND OVER COME THE RESISTANCE CAUSED BY P. FACIPARUM USING BOX-BEHNKEN DESIGN
FIELD OF INVENTION	PHARMACEUTICALS
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	18/09/2020
PUBLICATION DATE (U/S 11A)	02/10/2020
REPLY TO FER DATE	06/08/2021

Application Status

APPLICATION STATUS	Application Refused U/S 15
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Application Details

APPLICATION NUMBER	202041043142
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	05/10/2020
APPLICANT NAME	VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)
TITLE OF INVENTION	NOVEL DIATOM BIOSILICA NANOPARTICLES AS A DRUG DELIVERY CARRIER FOR INFECTIOUS DISEASES: DEVELOPMENT IN-VITRO, AND IN-VIVO CHARACTERIZATION.
FIELD OF INVENTION	PHARMACEUTICALS
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	05/10/2020
PUBLICATION DATE (U/S 11A)	16/10/2020

Application Status

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Application Details

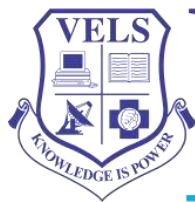
APPLICATION NUMBER	202041043143
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	05/10/2020
APPLICANT NAME	Vels Institute Of Science, Technology & Advanced Studies (VISTAS)
TITLE OF INVENTION	PHYTOCHEMICAL SCREENING AND EVALUATION OF ANTIFERTILITY ACTIVITIES OF POLYGONUM GLABRUM IN FEMALE ALBINO RATS
FIELD OF INVENTION	PHARMACEUTICALS
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	05/10/2020
PUBLICATION DATE (U/S 11A)	16/10/2020

Application Status

APPLICATION STATUS	Application Awaiting Examination
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➡ Disposed



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INSTITUTION WITH **UGC 12B** STATUS

NIRF 2023

PHARMACY

PATENT PUBLISHED

2021



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Application Details

APPLICATION NUMBER	202141020622
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	06/05/2021
APPLICANT NAME	VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)
TITLE OF INVENTION	DEVELOPMENT OF BUCCAL ADHESIVE FILM CONTAINING COMBINATION OF ANTI-OXIDANTS FOR PREVENTING THE PROGR
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	06/05/2021
PUBLICATION DATE (U/S 11A)	11/06/2021

Application Status

APPLICATION STATUS	Under Examination
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Application Details

APPLICATION NUMBER	202141035476
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	06/08/2021
APPLICANT NAME	VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED SCIENCES(VISTAS)
TITLE OF INVENTION	FORMULATION OF PHENYLEPHRINE AND AMIKACIN NANOEMULSION
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	06/08/2021
PUBLICATION DATE (U/S 11A)	20/08/2021
REPLY TO FER DATE	06/12/2022

Application Status

APPLICATION STATUS	Under Examination
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Application Details

APPLICATION NUMBER	202241008125
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/02/2022
APPLICANT NAME	VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS)
TITLE OF INVENTION	DEVELOPMENT OF TOPICAL OINTMENT CONTAINING HERBAL EXTRACTS FOR TREATING PSORIASIS
FIELD OF INVENTION	BIOTECHNOLOGY
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	16/02/2022
PUBLICATION DATE (U/S 11A)	04/03/2022

Application Status

APPLICATION STATUS	Application Awaiting Examination
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Application Details

APPLICATION NUMBER	202241008126
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/02/2022
APPLICANT NAME	VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS)
TITLE OF INVENTION	INHIBITORY EFFECT OF TRAGIA INVOLUCRATA BY IN VITRO AND IN VIVO METHODS THROUGH MITOCHONDRIAL MOLECU
FIELD OF INVENTION	BIO-CHEMISTRY
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	16/02/2022
PUBLICATION DATE (U/S 11A)	04/03/2022

Application Status

APPLICATION STATUS	Application Awaiting Examination
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Patent Search

Invention Title	SURFACE MODIFIED NANOPARTICLES FOR THE TREATMENT OF CANCER AND METHOD OF PREPARATION THEREOF
Publication Number	12/2022
Publication Date	25/03/2022
Publication Type	INA
Application Number	202241015299
Application Filing Date	20/03/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	CHEMICAL
Classification (IPC)	A61K0009510000, B82Y0030000000, C09C0001360000, C09C0001300000, C08K0009060000

Inventor

Name	Address	Country
Sandhiya.V	C.L.Baid Metha College of Pharmacy, Thoraipakkam, Chennai-97, Tamil nadu, India	Indi.
Dr. Grace Rathnam	C.L.Baid Metha College of Pharmacy, Thoraipakkam, Chennai-97, Tamil nadu, India	Indi.
Dr. P. Shanmugasundaram	School of Pharmaceutical Sciences, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai-600117, India	Indi.
Dr. U.Ubaidulla	C.L.Baid Metha College of Pharmacy, Thoraipakkam, Chennai-97, Tamil nadu, India	Indi.
Dr. R. Kumaravel Rajan	C.L.Baid Metha College of Pharmacy, Thoraipakkam, Chennai-97, Tamil nadu, India	Indi.
Dr. Priyanka Sinha	C.L.Baid Metha College of Pharmacy, Thoraipakkam, Chennai-97, Tamil nadu, India	Indi.
R. Vijayakumar	C.L.Baid Metha College of Pharmacy, Thoraipakkam, Chennai-97, Tamil nadu, India	Indi.
Dr. S. Sathesh Kumar	School of Pharmaceutical Sciences, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Pallavaram, Chennai-600117, India	Indi.

Applicant

Name	Address	Country
Dr. U.Ubaidulla	C.L.Baid Metha College of Pharmacy, Thoraipakkam, Chennai-97, Tamil nadu, India	India

Abstract:

ABSTRACT SURFACE MODIFIED NANOPARTICLES FOR THE TREATMENT OF CANCER AND METHOD OF PREPARATION THEREOF The present invention relates a su nanoparticles for the treatment of cancer and evaluate their cytotoxic activity against breast cancer cells. The invention also relates to a process for the preparat nanoparticles. Fig 1

Complete Specification

Claims:1. A surface modified nanoparticles for the treatment of cancer comprising:

- a. a photosensitizer;
- b. a drug;
- c. a polymer;
- d. a targeting moiety; and
- e. a lipid core (lecithin).

2. The surface modified nanoparticle as claimed in claim 1, wherein the drug is selected from gallic acid, curcumin, quercetin, ferulic acid, ellagic acid, rutin, a polyphenol compounds.

3. The surface modified nanoparticle as claimed in claim 1, wherein the polymer is selected from PLGA, CHITOSAN, PEG-PLGA, PCL, PVP, PLA and ALGINATE.

4. The surface modified nanoparticle as claimed in claim 1, wherein the targeting moiety is selected from DSPE-PEG2K-F, DSPE-PEG-FA, PEG-FA, CMC-EDBE-F, MNPs and FA-BSA.



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Application Details

APPLICATION NUMBER	202241020227
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	04/04/2022
APPLICANT NAME	Vels Institute of Science, Technology and Advanced Studies (VISTAS)
TITLE OF INVENTION	DESIGN AND DEVELOPMENT OF LIFITEGRAST LOADED CONTACT LENSES FOR DRY EYE SYNDROME
FIELD OF INVENTION	PHYSICS
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent.vels@eattributes.com
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Application Status

APPLICATION STATUS	FER Issued, Reply not Filed
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Patent Search

Invention Title	CONTROLLING THE RELEASE RATE OF A THERAPEUTIC DRUG USING NANOPARTICLE VESICLES EMBEDDED IN HYDROGEL
Publication Number	47/2022
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Application Filing Date	16/11/2022
Priority Number	
Priority Country	
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Field Of Invention	CHEMICAL
Classification (IPC)	A61K0031704000, A61P0043000000, A61K0047600000, A61K0047690000, B82Y0005000000

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Abstract:

CONTROLLING THE RELEASE RATE OF A THERAPEUTIC DRUG USING NANOPARTICLE VESICLES EMBEDDED IN HYDROGEL 5 A method of controlling the release rate of therapeutic drug using nanoparticle vesicles embedded in hydrogel, wherein the method comprises selecting electronic components useful for sensing or detecting (analytes, signals or conditions); storing data from said electronic components, transmitting or generating an output signal. It also comprising at 10 least one surfactant from the group consisting of crown ether amphiphiles bearing a steroidal moiety. It further enhances the induction of host defenses by adriamycin, when administer form and capable of reducing adriamycin toxicity. Comprises β - glycerophosphate polyol, glycerol, pentaerythritol, ethylene glycol, glycerin, castor oil, sucrose polyethyl polypropylene glycol. It also do administers a therapeutically 15 effective amount of the suspension parenterally. It is consisting of alpha-tocopherol, including analog including alpha-tocopherol succinate, provided that if the secondary compound is alpha-tocopherol, the toxicity for adriamycin is reduced at least three and a half tin has a method for enhancing the therapeutic effectiveness of adriamycin and a secondary compound .

Complete Specification

Description:CONTROLLING THE RELEASE RATE OF A THERAPEUTIC DRUG USING NANOPARTICLE VESICLES EMBEDDED IN HYDROGEL

BACKGROUND

Technical Field

[0001] The embodiments herein generally relate to a method of controlling the release rate of a therapeutic drug using nanoparticle vesicles embedded in hydrogel.

Description of the Related Art

[0002] Drug delivery systems, such as physical encapsulation or liposomes containing neutral or zwitterionic lipids, are used to improve drug administration. The lipids in liposomes arrange themselves into bilayers and entrap one or more spaces. Biological immunostimulatory, such as cytokines and bacterial cell wall derivatives, are also capable of stimulating the tumoricidal activity of macrophages. Entrapment of such immunostimulatory in lipid bilayer vesicles, i.e., liposomes, potentiates the induction of tumoricidal activity. The liposome effect effects may be due to increased incorporation of the immunostimulatory into macrophages and phagocytic components of the reticuloendothelial system (RES). Tumors in the abdominal cavity are exposed to higher concentrations of drug for longer periods of time

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Patent Search

Invention Title	MODULATION OF VITAMIN C AND E BY NEISOSPERMA OPPOSITIFOLIUM (LAM.) FOSB. & SACHET AND QUERCUS LANATA SM. EXTRACTS INDUCED EXPERIMENTAL DIABETIC RATS
Publication Number	46/2022
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Application Number	202241064223
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Priority Country	
Priority Date	
Field Of Invention	CHEMICAL
Classification (IPC)	A61P0003100000, A23L0033105000, A61K0036490000, H04L0025020000, A61K0031640000

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Abstract:

ABSTRACT MODULATION OF VITAMIN C AND E BY NEISOSPERMA OPPOSITIFOLIUM (Lam.) Fosb. & Sachet and QUERCUS LANATA Sm. EXTRACTS ON STZ-INDUCED EXF DIABETIC RATS This study aims to research the effect of Ethanol Extract of stem bark of Neisosperma oppositifolium (Lam.) Fosb. (EENo) and Ethanol Extract of stem Quercus lanata Sm. (EEQI) on Vitamin C and E in streptozotocin induced diabetic rats. Diabetes mellitus was induced with single intraperitoneal injection of streptozoc dissolved in 0.1M of cold citrate buffer, pH 4.5) 115 mg/ kg in 12-hr-fasted rats. After 72 hours, rats with a blood glucose concentration above 250 mg/dl were consider diabetic. All rats were fed orally with glucose load of 3 mg/g body weight. Twenty-five Male albino Wister rats were included in this study. They were divided into 5 grc normal control, diabetic control, positive control (Glibenclamide) and the remaining 2 groups were administrated Ethanol Extract of stem bark of Neisosperma oppos (Lam.) Fosb. (EENo) and Ethanol Extract of stem bark of Quercus lanata Sm. (EEQI). Evaluated the effect of Vitamin C and E on the activities of antioxidant enzymes (C/ in liver and kidney tissue of diabetic rats.

Complete Specification

We claim:

1. The antioxidant enzymes such as CAT, SOD were significantly ($p < 0.05$) decreased in diabetic rats compared to normal rats in kidney, liver and pancreas tissues.
2. Diabetic group rats treated with Ethanol Extract of stem bark of Neisosperma oppositifolium and Quercus lanata exhibited significantly higher ($p < 0.05$) CAT enz
3. The non-enzymatic antioxidants such as GSH was significantly lower whereas MDA levels increased in untreated diabetic rats compared to normal rats.

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