Awards & Honors

Name of the Award	Name of the Organization	Purpose of the Award	Nature of the Award/Frequency
National Bio-Science Award-2007	DBT, New Delhi Govt of India	To promote Scientific Research	National/ Annual
TATA Innovation Award-2013	DBT, New Delhi Govt of India	To promote Scientific Research	National/ Annual
YM Scientist Award-2002	MAAS (INDIA)	To promote Scientific Research	National/ Annual
Distinguished Research Scientist Award-2015	VIFRA FOUNDATION (INDIA)	To promote Scientific Research	Inter- National/ Annual
Research Excellence Award-2015	The Indus Foundation, NJ (USA)	To promote Scientific Research	Inter- National/ Annual
Best Teacher Award-2009	AMU, Aligarh	For outstanding Scientific/Teaching contributions	National/ University Level Annual
Rashtriya Gaurav Award	IIF, Society, New Delhi (INDIA)	To promote Scientific Research	National/ Annual
Merit Award	Delhi University, New Delhi	For securing 1st position in B. Pharm.	University Level Annual
Merit Award	DYEA, New Delhi	For outstanding performance in B. Pharm	National/ Annual



Government of India Ministry of Science and Technology Department of Biotechnology

PRESENTS

NATIONAL BIOSCIENCE AWARD FOR CAREER DEVELOPMENT 2007

TO

DR. OWAIS MOHAMMAD ALIGARH MUSLIM UNIVERSITY, ALIGARH

in recognition of his pioneering work in development of nano-particles based delivery systems such as virosomes for gene packaging, liposomes and microspheres for vaccine development, gene therapy vectors and drug delivery systems. He has developed liposome based antigen delivery vehicles, which can elicit strong immune response against model antigens in animals.

Given this Day, the 17th of March 2008 at the function organized in connection with the Foundation Day of the Department.

KAPIL SIBAL
MINISTER OF SCIENCE & TECHNOLOGY
AND EARTH SCIENCES



No. BT/HRD/35/01/03/2012 Government of India Ministry of Science & Technology Department of Biotechnology

Block No. 2, 6-8th Floors CGO Complex, Lodi Road, New Delhi - 110 003.

Dated: 15.04.2013

ORDER

In continuation of this Department's sanction order of even number dated 21.02.2013, sanction of the President of India is hereby accorded under Rule 18 of the delegation of Financial Powers Rules, 1978, for the release of a sum of Rs. 7.40 lakhs (Rupees Seven lakhs and forty shousand only) of Tata Innovation fellowship awarded to Dr. Mohammad Owais. Associate Professor, Interdisciplinary Biotechnology Unit, Aligam Muslim University, Aligam 202002, U.P. being the first release for the implementation of the project entitled "Targeted delivery of promiscuous antigens to dendritic cells; Prophylactic implications against experimental brucellosis" as per the break-up given below

(7 In Latchs)

S. No.	Head	Amount
1	Fellowship	2.40 @ Rs. 20,000/-per month
2	Contingency	5.00
	Total	7.40

- The other terms and conditions of the grant shall remain unaltered
- The amount of ₹ 7.40 takhs (Rupees Severt takhs and forty thousand only) will be drawn by Drawing and Dispursing Officer, DET, from the Pay and Accounts Officer, DET and disbursed to the Registrar, Aligarh Muslim University, Aligarh-202002, UP Inrough RTGS as per following details:

Branch Name: AMU Stranch, Aligarti 10512179411 IFSC Code MICR Code | 202002003

The expenditure involved is debitable to

Demand No. 87 3425

3425.60 3425 60 200

3425.60.200 17.08.31

Department of Biotechnology Other Scientific Research 2013-14

Others

Assistance to other Scientific Bodies (Minor head)

Human Resource Development

Human Resource Development Programmes

Grants in Aid General

Accomuna



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Dr. G.J. SAMATHANAM Advisor/Scientist-G 06/TDT

Telefax: 011-26862512 Phone: 011-26590367 Email: samathan@nic.in D D No.

VII-PRDSF/103/05-

Date

22.06.2007

Dear Dr. Owais,

I am forwarding herewith the minutes of the first year monitoring committee meeting of the project titled "Evaluation of Tuftsin-bearing polyene nanoparticles in combating some systemic murine fungal infections" among Aligarh Muslim University, Aligarh / M/s Cadila Pharmaceuticals Ltd., Ahmedabad held on 18.06.2007 at Ahmedabad for favour of your information & compliance, As and when you receive the industry contribution the same may be communicated to us for taking action to release DST share. Please ensure the observations of the monitoring committee during the second year so that you are able to contribute still more.

With kind regards,

Dr. Owais Mohammed,

(G.J. Samathanam)

Senior Lecturer, Interdisciplinary Biotechnology Unit, Aligarh Muslim University, Aligarh-202002

Copy to:

 Dr. Rajiv I. Modi, Managing Director, M/s Cadila Pharmaceuticals Ltd., "Cadila Corporate Campus", Sarkhej – Dholka Road, Bhat, Ahmedabad – 382 210.

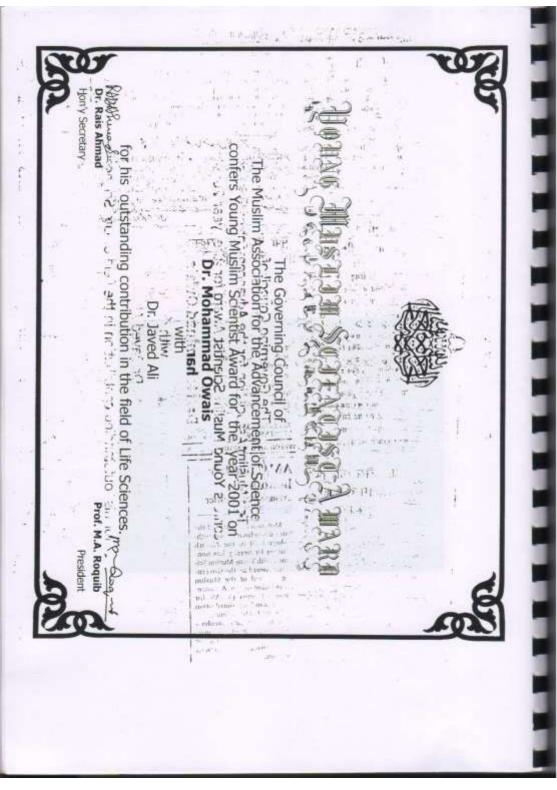
 Dr. Bakulesh M. Khamar, Executive Director – Research, M/s Cadila Pharmaceuticals Ltd., "Cadila Corporate Campus", Sarkhej – Dholka Road, Bhat, Ahmedabad – 382 210 – with a request to consider the release of Cadila's second year contribution to AMU as recorded in the minutes. Please take action on the issues industry has to provide information to DST.

3. Shri V.K. Sharma, Advisor (Corporate Affairs), Cadila Pharmacouticals Ltd., D-

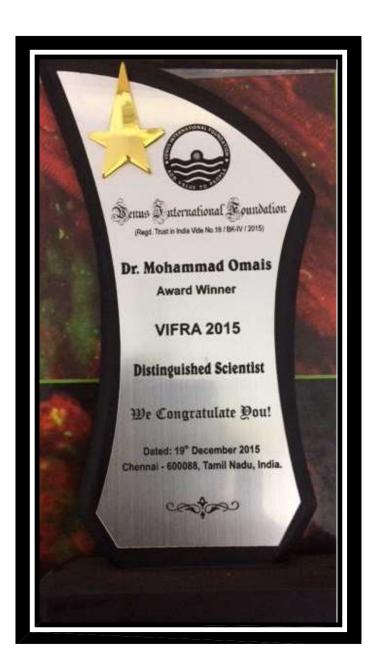
1011, New Friends Colony, New Delhi - 110 065

(J. Samathanam)

B. off. a. comprise to C.J. SAMATHAN Section 10 / Scientist Of Section 10 / Scientist Of Section 10 / Section







FIRST ANNOUNCEMENT

12th INTERNATIONAL LIPOSOME RESEARCH DAYS joint meeting with the 3rd conference on LIPIDS, LIPOSOMES & MEMBRANE BIOPHYSICS

UBC Campus, Vancouver, Canada August 4-8, 2010

International Advisory Board

Canada

Italy

M. Bally

M. Ponzoni

C. Allen

Germany

R. Epand R. McElhaney R. Zeisig

Japan

Spain F. Goni

K. Maruyama

Czech Republic

N. Oku

J. Turanek

H. Harashima

Russia

T. Ishida

L. Yakushenko

USA

Taiwan

C. Alving

J. Ae Wand

F. Szoka

China Y. Xu

L. Huang V. Torchilin

Israel

D. Needham

A. Gabizon

D. Deamer

C. Barenholz

P. Felgner

India

The Netherlands P. Devarajan

G. Storm

P. C. Ghosh

B. de Kruijff

M. Owais

D. Hoekstra

Brazil

United Kingdom H. Bueno da Costa Australia

Y. Perrie

H. Bayley France

G. Russell-Jones

L. Leserman

M. Patane

Portugal

South Africa H. Swai

R. Gaspar

Conference topics will include:

Nanotoxicology

Ligand-targeted and combination

therapeutics

Intracellular delivery

New technology developments

Roles of lipids in membranes

Self-organization of lipids

Lipid trafficking

Membrane nanotechnology

PLUS workshops on

commercialization of nanomedicines

delivery of gene therapeutics (DNA, siRNA)

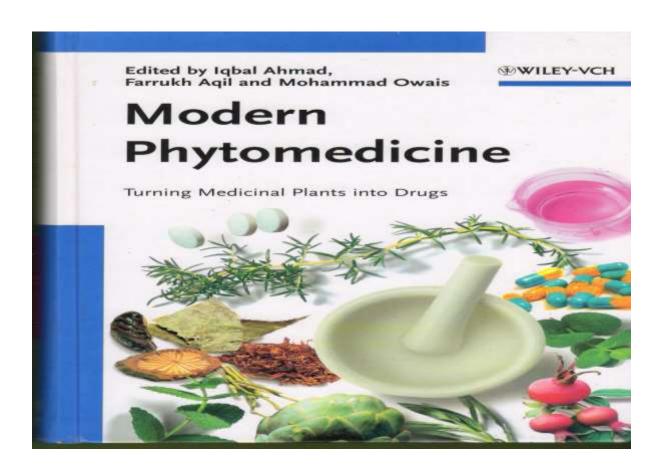
recent clinical develoments

PLUS the International Alec Bangham Award,

poster awards, and sponsor exhibits

All researchers with interests in liposomes, nanomedicines, lipids and biomembranes are invited to join us on the beautiful University of British Columbia campus for an exciting interdisciplinary conference.

Organizers: Theresa M Allen (terry.allen@ualberta.ca; Pieter R Cullis (pieterc@interchange.ubc.ca)





To Whom it may concern

This letter is my personal recommendation for Dr. Mohammed Owais. I have seen the profile of Dr. Owais very closely who holds a distinguished record from his Ph.D. days till today specifically in the area of development of liposome-based formulations for the treatment of a range of infectious diseases. His pioneering work in development of nano-particle based delivery systems such as virosomes for gene packaging, liposomes and microspheres for vaccine development, gene therapy vectors and drug delivery systems are being currently exploited by some of the leading pharmaceutical and biotechnology companies to develop some novel drug formulations. Dr Owais work in the area of liposomes technology and nanoparticle has been featured as a cover page by reputed International journals (Molecular Medicine & FEMS-Immunology and Medical Microbiology). He has also developed liposome based antigen delivery vehicles, which can elicit strong immune response against model antigens in animals. Dr. Owais is also currently propagating idea of administering suitable drug formulation along with immunomodulators to combat infectious diseases.

Cadila Pharmaceuticals Ltd., India has sought help of Dr. Mohammed Owais in development of nanoparticle based novel antifungal formulations for treatment of opportunistic fungal infections under the PRDSF program of DST, Govt of India. This product is likely to have great market value and the formulations have been found to impart tremendous increase in efficacy of the drugs. Presently Gennova is evaluating liposome based vaccine delivery options for human phase I clinical trial which have been developed at Dr. Owais lab.

On a personal note, I would like to mention that it has been a pleasure to know a scientist like Dr. Owais, who has developed applied science area so well within academic environment. I wish him all the success in his endeavors and he may add more laurels to his illustrious career.

Yours Sincerely,

Sanjay Singh, Ph.D. Chief Executive Officer

एड्स: अमुवि के प्रोफेसर बनाएंगे दवा

बहुराष्ट्रीय दवा की कंपनी मेडीला से हुआ करार



एड्स कीची भीवती कि नियंत्रन पर दक्ष रीपर करो के लिए एक पक्षीप midde feen 2: mi महत्त्रपृथि दावा कंपनी पेग्रेल और चारा गामा

के विजय एवं प्रीचीतिको शिक्या के चीच निवासिक शोध और निवास के रोत र्व अर्था प्रदान प्राथमित

पानक प्रकाश

कारे में अधरे चोध में एक दाब तैया नहीं। या प्रमेश प्रेतिनपुरसर कार्यरकेली के क्षेत्र में 1960 से क्षेप कर्म कर के हैं। हह हमेरा ने अगन पेस्ट क्षमार अधिका अमेरिका विभार एकावीएक के ब्र.आसी पैली के पुर के साथ किया है और इसआईसी वेशेंड को विकास करने में महावर्ड़न भूरिका निवर्त है। तकि विकास से एकाईसे के भूपात की समान किए जा महेरा

अपूर्व द्वर किए गए इस कर से और्थाद करने और सिद्धत के बीच संपर्क स्थापन होने से अध बंदे एक्स क्रिकार्थ में अस्त दिलीक आएटी और

पुरुवते के इस पुर में चात भी पुरवतीय बाजा में अपने को तथा बोता और पस्तीय ज्ञांग श्रीच क

वार्तों में अपने पूंची लगाएत। इस नार्वे का क्षेत्र कुलारि कार्रिय आग्राम और र्चनस्तर हो. पंच्यान को आह है। उन्होंने शोध बानों ना जिला औष्य कार्यपर्य से जोड़ है तकि दोनों के भोत संबद सर्वात हो जाए।

25. उपैस ने बाइपर कि ठायेरिका में 25. गिर्ने पुन is upon topo all meson is firm feadure wi गाँ क्या अली हुलेश और में हैं। क्ली बलीनिय रेश्ट अहीर बात हो है। इसके बाद यह दक्त मार्केट में

AMU Joins hands with Cadila in medical research

The Aligarh Muslim University tus entered into an agreement with Cadile Pharmaceutical industries, Abmedabad, which is tooking for the supertise of research scientists to develop more effective and modern medicines. AMU has developed excellent expertise and ofvestructure in selected areas of drug develop-

Pione 30/6/06

29 जून 2006 द्वारा एड्स की दबां

असीमक २६ जून।

हा.मुहम्मद उपैस एड्स सम्बंधित मैनो विश्य घर से एच.आई.दी. असीयह मुस्तिन विश्वविद्यालय ने एड्स पार्टिकाना विकसित करने में अपने छो। की सवाज किए जा सके। ने से बीमारी के नियंत्रण पर दवा तैयार । से एक दवा तैयार करेंगे।डा.उपैस डा.उपैस के इस अन्तर्राष्ट्रीय शोध से उत्तरा के। इस सन्दर्शन के अन्तर्गत

किया है।इस समझीते के अन्तर्गत से शोध कार्य कर रहे हैं। 21. उर्वम ने उर्वम से गृहम की रोक्याण के लिये बहुराष्ट्रीय दबा कम्पनी केंद्रीसा और अपना पोस्ट डान्टरेंट प्रिम्बन अमेरिका दक्ष करने में उनका सहयोग मांगा है। भारत संरकार के विज्ञान और प्रीक्षेणिकी हिसत एन.आई.एक. कें ,डा.आर.सी. अमुधि डासा किये गये इस करार से विकास के कीन विकासिक स्रोध और मेली के पुत्र के साथ किया है और आधीर कथानी और विकास के बीच है जा मुसम्बर विकास रहत से संबंधित विकास के क्षेत्र में आगे कदम बढ़ायेंगे। एस.आई.सी. सैन्डा को विकासित करने सथाई स्वापित होने से धारत की नेनो पारिकारम विकासित करने से अपने अमृदि बावोरेक्नोलाओ इंस्टोट्यूट के में महत्वपूर्ण भूमिका निवाई है।शाबि सवस्य तेवाओं ने अत्य निवंदला आवेती । तेव में एक दया तैकार करेते । का भूमण्डलीय बाजार में अवने को तैयार । खेस ने अपना योग्ट राज्यरस प्रायक्ताण करेगा और छदयोग शोद कार्यों में अपनी पूंजी सनायेगा।

> को जाता मैं कि उन्होंने बोध कार्यों का रिश्या सीधा कम्पनीयों से लोड़ा है ताफि बोनों के बीच संवाद स्थापित की लाये।

मेंसे क्षेत्रान के लिए निवंद्रण वर दवा तियार करने के लिए निपशीय समझीशा । में प्रशास करने से लिये एक विपक्षीय समझीता मोतिकुतर वामोलीको । तेत्र में १६६८ प्रधायित तोकर ही कैंदीला ने डाक्टर पतुराष्ट्रीय दया कम्पनी केदीला आर दया तैयार भारत सरकार के विकास एवं झोधीरिकी सांस है। विभाग के बीच बेताईक शोध और विद्वला में आने कदम बहावेरे।

से आवंध अमृति वावीदेशमानीका इंस्टीइयुट सम्पर्क स्था सेवाओं वे मुकायते । उपेल मोशिक्यूलर वायीलोजी के शेव में और मुकाबते के दृष्ट्र पूर्व में चारत भी 1665 से शीध कार्य कर रहे हैं + बा. में अधनी समेरिका रिध्त एम आई.ए. के बा. नमीम आ नार भी गेलों के पुष के साथ किया है केनान स वीर एक अर्थ की बेक्टेन्ड को विकस्तित इस कार्य का रेव कुलपति की नसीम १९०३ में महावारूण धूमिका निभाई है हे ताकि अहमद और रिनिस्ट्रार और प्रीकेंग्रम और विशासर से एवं आई थे. के तो असे।

Shall Times

ह दिल्ली, शुक्तवार, ३० जुन, २०००

सहारा न्यून ब्युरो

असीयव, २९ जूर। असीयव पुरिताम विश्वविद्यालय ने मृत्य के निवास पर दशा तैयार करने के लिए एक प्रियक्षीय समझौता नित्या है। समझीते के आर्मात बहुराष्ट्रीय दना कम्पनी और केंद्र सरकार के विज्ञान चेजनिक शोध और विद्वार के क्षेत्र में भागे कदम बहारोंगे ।

बायोरेक्नोशीओ इस्टोट्यूट के हा, भोडम्मद उपैस एड्स में संबंधित देनो पार्टिकरण विकासित करने में आपने शोध से एक दवा तैयार करेंगे। डा. इत्रीश मोतिकुत्ता बायोतीजी के क्षेत्र में 1998 से शोध बार्च का रहे हैं। वा, वर्षेस ने अपना पोस्ट डाकार प्रतिकाण आपेरिका क्रियत एनआईएन के डा. जारती गैलो के पूप के साथ किया है और एचआईबी सेकेंड को विकासित बनने में महत्वपूर्ण पूरित निशामी है शक्ति निश्म से एकलाईकी बाबरस को सनान्त क्रिया जा समें।

बा, उनेस के इस सीच में प्रभावित क्षेत्रर ही जीवीला ने हा उमेश से पृहस की रोकशाम में लिए इस बहरे में उनका सहयोग मांग

अमृति द्वारा किये यूथे इस करार में औषांच कानाने और विद्यान के बॉच सामार्थ स्थापित होने से भारत की स्वापन्य संकाओं में आता विर्वाण आएमी और मुकाबले के इस सुग में भारत भूमहालीय भारतार में अपने भी तैयार कोगा।

इस सवर्ष का श्रेष कुलगति मार्गिय अपूर्णद और रविस्तृत और प्रो, फैनान को जाता है कि उनाने शोग कार्यों का विश्वा सीधा क्रम्मीको से क्षेत्रा है तहिंद देने के बीच प्रचाद स्थापित हो जाए।

3ना गरा 29 जून 2006

अमुवि वैज्ञानिक एड्स की दवा तैयार करने में

असावा असाव कुमान वाच. बावल स्टब्स्ट के कुमान करा विधालन के पहल जैसी खारनाक स्ट्स से सम्बंधित नेते बटिकान दिस. बोधारी के निकास का तथा तथा करने कि करने में अपने शोध से एक सम बीम नैहानिक शोध और तिहात के तोच एनआईएव के दा. आर.मी. गेलों के पूच में आरे करम बदावेरे। स म िव के साम किया है और एवआईवी सेकेंट

में विद्वान एवं जीवरियारी विकास के प्रेस्ट दाकारत प्रतिप्रक्रम अमेरिका विकास

निपाई है। लिक विस्थपर में बाबार के नक्षण का रहा देवार करने विश्व करने में अपने श्रीप से एक एस की बावार को सम्बद्ध किया के तिन एक रिपार को समझेद किया करने हैं। यह उसे से एक एस की बावार को समझेद किया के तिन करने हैं। यह उसे से एक एस स्वाहित हैंने पर अपने प्रकार की स्वाहित की अपने के अपनी के अपने की अपने की अपने की अपने की उसे की अपने की उसे की अपने की है। अपृथि द्वारा किये गये इस बनार से औषाँच करणनी और विद्वार के बीच गामको स्थापित होने से भारत को व्यास्थ्य शेवाओं में आत्मनिर्माता आयेगी और मुकाबले के इस पुर में धनत भी धूर्यहरतीय बाहार में अपने को तैयार कोग और भारतीय उद्धान गोप कामी में अपनी पूंची त्लापंतः इस शीय का अप कृतपति नशीम अहमद और र्राज्यक्त और ग्री. चैवन को जात है। कि उनाने शोध कामी का गिरता सीधा कर्णांच्ये से शहर है तकि होते हैं बीच संवाद स्थापित हो सबेह

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. Department of Biotechnology, Ministry of Science and Technology

Current area of Research:

Among various novel drug delivery systems, Nanoparticles have emerged as a suitable drug vehicle in regulating pharmacokinetics, pharmacodynamics and eventually the bioactivity of the active core compound. Nanoparticles entail en-route shielding of the associated drug molecules and eventually facilitate their targeted delivery to the active site. Nano-particles with corona have been reported to preferentially accumulate at site of injury, infection and inflammation, mostly because of endothelial dysfunction and blood vessel fenestration at such sites.

In spite of their widely acclaimed potential for sustained drug release and potential to accumulate at the desired site, Nanoparticles do come across with series of barriers that prevent achievement of desirable therapeutic outcome. The main emphasis of Dr Owais has therefore been on addressing some of such problems. He has developed siRNA (cf. phosphoinositide 3-kinase, Polo like kinase-1 and, E6 of HPV) bearing nano-particles as a delivery vehicle for treatment of skin, liver, breast and lung cancer in model animals. In another study, he demonstrated that liposome prepared with lipid (from E. coli or Archae bacteria) can specifically prime dendritic cells to activate both CD4⁺ T helper as well as CD8⁺ T cytotoxic cells of the host. He has also demonstrated that exosomes as well as in-side-out erythrocyte vesicles can deliver encapsulated antigen to cytoplasm of the target cells and find application in development of prophylactic vaccine against murine malaria. Recently, he demonstrated that nano-particle/amyloid mediated targeting (mannose/anti-DC-SIGN antibody based) of RD9 gene products of *Mycobacterium sps* to dendritic cells favors Th1 phenotype of elicited CD4+ T lymphocytes against tuberculosis, thereby help to cut down the antigen dose by several folds. Besides, he developed nanoparticles based DNA (SOD/IL-18) and L₇/L₁₂ ribosomal protein bearing vaccines against experimental brucellosis and escheriosome based subunit vaccines against experimental malaria and leishmaniasis in BALB/c mice.

He has successfully transferred technologies pertaining to development of biomimetically synthesized nanoparticles to industries viz. Cadilla Pharma, Ahmedabad and Gennova, Pune for treatment of cancer and opportunistic infections.

Traditional pharmaceutical approaches, implied in the synthesis of Nano-formulation are obscure, owing to the incompatible physico-chemical properties of the drug as well as various undesirable attributes of the excipients used in synthesis of the formulations. In general, the usage of excipients is curtailed by issues like nonoptimal biodegradability, short shelf life, toxicity and non-specific activation of user's immune system. Such issues necessitate strategies that lead to development of excipient free drug delivery systems. Plant based extracts have great potential to induce biomimetic synthesis of Nanoparticles. Generally appreciated for medicinal importance of its antioxidant contents, orange juice is likely to play a role in the fight with cancer. Considering this fact, Dr. Owais proposed a prototype employing orange juice that facilitates biomimetic synthesis of Nano-sized supra-molecular assemblies of 5-fluorouracil (5-FU), a potent anticancer drug. The as-synthesized 5-FU Nanoparticles retained the anti-neoplastic efficacy of the parent compound and induced apoptosis of cancer cells. Excipient-free, biomimetically engineered 5-FU Nanoparticles demonstrated enhanced efficacy against DMBA induced fibrosarcoma in the experimental mouse model when compared to the free form of the drug. Nominee has extended similar biomimetic approach to fabricate amphotericin B, nystatin, cis-platinum, doxorubicin and plethora of anti-fungals as well as anticancer agents-based nanoparticles and established their efficacy in model animals.



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Date Mailed: 05/28/2015

Dr. Mohammad Owais Interdisciplinary Biotechnology Unit Aligarh Muslim University Aligarh, 262201 INDIA

Receipt is acknowledged of this provisional patent application. It will not be examined for patentability and will become abandoned not later than twelve months after its filing date. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections

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Power of Attorney: None

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The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 62/133,412**

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Non-Publication Request: No

Early Publication Request: No

** MICRO ENTITY **

Title

PRODUCTION OF BISPECIFIC ANTIBODIES FOR RAPID DETECTION OF FOOD BORNE PATHOGENS

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No page 1 of 3