

TAGORE DENTAL COLLEGE AND HOSPITAL

2.3.5.2 *The teaching learning process of the institution nurtures creativity, analytical skills and innovation among students*

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1. PATENTS LIST

INNOVATIONS

The staffs and students are encouraged to do research and innovate. The institution provides all infrastructure, funds and any other requirements to perform research.

List of patents applied are as follows

.No	Applicant name	Patent no	Patent title	Status
1	Arunkumar. C Dr S Balagopal	487/CHE/2013	Automated cavity designer	FINAL SPECIFICATION
2	Michael Bernard Pras Dr I Kannan	1292/CHE/2013	Pharmaceutical components and method of treatment of dental caries and dental plaque – Banyan tree extracts	APPROVED
3	Michael Bernard Pras Dr Chitraa R Chandra	3164/CHE/2014	Commercial Oral Hygiene Monitor	APPROVED
4	S. ChellaVignesh Dr S Balagopal Dr Chitraa R Chandra		Multipurpose tooth brush for oral care	FINAL SPECIFICATION
5	S. ChellaVignesh Dr S Balagopal Dr Chitraa R Chandra		Apparatus for skin, Tooth polishing and Oral care	PROVISIONAL COMPLETED
6	Iswariya Dr I Kannan	1796/CHE/2015	An insilico design of inhibitors of GspB, a virulence factor of Streptococcus gordonii in the causation of Infective Endocarditis	Application process
7	Iswariya Dr I Kannan	1797/CHE/2015	Study on Diosmetin Derivatives as the inhibitors of FIM H of uropathogenic Escherichia coli by molecular Docking with HEX	Application process
8	Michael Bernard Pras Dr Delfin Lovelina Dr Chitraa R Chandra		Molecular docking study of kaempferol derivatives as inhibitor of gingipains, a virulent factor of porphyromonasgingivalis	Application process
9	Priyanka K Dr Vandhana James		A novel method and device with angle rotor for ideal crown retention in tooth	Final Specification

These are some of the steps taken in that direction

- Students are advised on the importance of research from the first year.
- Students are encouraged to do surveys, epidemiological studies, short term projects during the preclinical and clinical year of study. In internship it is part of their curriculum to do surveys and research projects in some department. Patient, student clinician awareness studies are regularly done.
- These initiatives have resulted in student's application for patents, writing research articles and publishing and engaging in ICMR projects.
- Students are given aid to publish their articles and also apply for patents.
- To promote research and publication the college publishes a bi annual journal – Journal of Clinical Dental Updates and Research.
- Students are encouraged to present papers in regional and national conferences, under graduate student convention and competitions and also during CSM meetings. Special cases done by the students are presented by them in conferences.
- The institution aids the faculty to undertake research, epidemiological survey, attend and organize CDE programs.
- The institution provides on duty and academic leave for the faculty to participate in research work, conferences, seminars, workshops and training sessions.
- Staffs preparing for exams are granted leave.
- College hosted the ICD an international conference at Hyatt Regency on 17,18 December 2016, ISP Colloquium a PG convention along with ISP. We have also supported other organisations and departments in conducting conferences and support them financially like Forensic odontology conference at Chennai, IDA Conference, Global dental Meet at Chennai on 5, 6 November 2015, Pedodontia Conference at Chennai conf, ISDR/IDA, AOMSI , Andaman conference, TNIPS, and also conduct preconference courses.
- The institution and Tagore Medical College have all facilities like research lab, central lab, central research facilities, and animal lab, and we have signed an MOU to utilize their facilities. MOU also has been signed with Tagore Engineering college for research activities.
- Infrastructure, logistics, and equipments are available and also made available for research activities.

- Incentives are given for the staff for international and national publication in indexed journals with high impact factors. Promotions and increments are based on their research, publications and students guidance.
- About 3 lakh rupees were spent on research activities every year. Equipments were purchased for about 30 lakhs during the past 3 years for research purposes and reference materials are available in the library in the form of books, journals and e journals.
- Also the institution has instituted 4 awards to students, every year for the best research work.
- The institution conducts regular CDE programs and eminent speakers, research persons and faculties are invited to the college. This initiative helps build the research temper in the college.
- The institution has provided the researchers with the clinical material, laboratory facilities, consumable and non-consumable materials and technical man power free of cost.
- We have conducted programs, on research methodology and statistics for the staff and students. Our affiliated university also conducts research programs and the institution encourages the faculty to attend these programs.
- Research linkages with other institutions, universities and centres of excellence. (national and international). The institution has research linkages with University of Malaya, Mahasa University, Tagore Medical College, Jerusalem Engineering college, Tagore Engineering College, Madras University- Biochemistry department, IIT, and with Global Hospitals.
- MOU's are also signed with University of Malaya and University of Mahasa in Kuala Lumpur for research activities and student exchange program.
- Providing travel grant for attending national/international conference and workshops. Travel grants are given to faculties and students presenting papers in national and international conferences.
- Staffs and students are made to do a certificate courses at NPTEL like Health Research Fundamentals and Introduction to Research

2. PATENTS DETAILS

PATENTS DETAILS

Year	Name	Details	Application Number
2013	F. Michael bernard prashanth	Pharmaceutical composition and method for treatment of dental carries and dental plaque	1292/CHE/2013
2014	Arun kumar	Pharmaceutical composition and method for treatment of dental caries and dental plaque	1848/CHE/2014
2014	Chella vignesh	Home kit for skin and oral care	2161/CHE/2014
2014	Chella vignesh	Multipurpose drug delivering apparatus for oral care	1605/CHE/2014
2014	F. Michael bernard prashanth	A novel mini oral hygiene monitoring device for detecting early caries in Tooth and gum disease	3164/CHE/2014
2015	Aishwarya	A pharmaceutical composition inhibiting GSPB, A virulence factor of Streptococcus Gordonii in the causation of Infective Endocarditis	1796/CHE/2015
2015	Aishwarya	A pharmaceutical composition inhibiting FIMH of Uropathogenic E coli	1797/CHE/2015
2015	Priyanka	A novel method and device with angle rotor for an ideal crown retention in tooth	3878/CHE/2015

PATENT OFFICE
INTELLECTUAL PROPERTY BUILDING
G.S.T. Road, Guindy, Chennai-600032
Tel No. :091(044)22502081-4 Fax No. 044 22502066
E-mail : Chennai-patent@nic.in
Web Site : www.ipindia.gov.in



CHALLAN : TR-5
DOCKET NO :24376

Date/Time : 29/07/2015 12:07:40

To,
TAGORE DENTAL COLLEGE AND HOSPITAL
RATHINAMANGALAM, CHENNAI - 600 127, TAMIL NADU, INDIA pentalectual@gmail.com

Agent Number:

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	15727	ORDINARY APPLICATION	3878/CHE/2015	A NOVEL METHOD AND DEVICE WITH ANGLE-ROTOR FOR AN IDEAL CROWN RETENTION IN TOOTH	8800
2		E-101/39914/2015-CHE	3878/CHE/2015	Correspondence	0
3		E-2/2147/2015-CHE	3878/CHE/2015	Form2	0
4		E-3/3225/2015-CHE	3878/CHE/2015	Form3	0
5		E-5/779/2015-CHE	3878/CHE/2015	Form5	0
Total :					8800

Received a sum of Rs. 8800 (Rupees Eight Thousand Eight Hundred only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Cheque	Punjab National Bank	486995	21/07/2015	8800

* 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.

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

PATENT OFFICE
INTELLECTUAL PROPERTY BUILDING
G.S.T. Road, Gulindy, Chennai-600032
Tel No. (091)(044) 22502081-84 Fax No. 044 22502066
E-mail : Chennai-patent@nic.in
Web Site : www.ipindia.gov.in



Date/Time : 06/04/2015

CHALLAN : TR-5
DOCKET NO :11060

Agent Number:

To,
TAGORE DENTAL COLLEGE AND HOSPITAL
RATHINAMANGALAM, CHENNAI - 600 127. pentlectual@gmail.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	6615	ORDINARY APPLICATION	1796/CHE/2015	A PHARMACEUTICAL COMPOSITION INHIBITING GSPB, A VIRULENCE FACTOR OF STREOTICICCUS ...	8800
2		E-101/18876/2015-CHE	1796/CHE/2015	Correspondence	0
3		E-2/1061/2015-CHE	1796/CHE/2015	Form2	0
4		E-3/1521/2015-CHE	1796/CHE/2015	Form3	0
5		E-5/415/2015-CHE	1796/CHE/2015	Form5	0
6	6615	ORDINARY APPLICATION	1797/CHE/2015	A PHARMACEUTICAL COMPOSITION INHIBITING FIMF OF UROPATHOGENIC ESCHERICHIA COLI FOR ...	8800
7		E-101/18877/2015-CHE	1797/CHE/2015	Correspondence	0
8		E-2/1062/2015-CHE	1797/CHE/2015	Form2	0
9		E-3/1522/2015-CHE	1797/CHE/2015	Form3	0
10		E-5/416/2015-CHE	1797/CHE/2015	Form5	0
Total :					17600

Received a sum of Rs. 17600 (Rupees Seventeen Thousand Six Hundred only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Cheque	Punjab National Bank	800393	03/04/2015	17600

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PATENT OFFICE
INTELLECTUAL PROPERTY BUILDING
G.S.T. Road, Guindy, Chennai 600032
Tel No. : (091)(044) 22502081-84 Fax No. 044 22502056
E-mail : Chennai-patent@ipc.in
Web Site : www.ipindia.gov.in



Date/Time : 28/03/2014

CHALLAN : TR-5
DOCKET NO :8455

Agent Number:

To,
Mr. A. ARIVAZHAGAN
NO. 38/13, 1ST FLOOR, DEENIGAR, STREET, VADAPALANI, CHENNAI - 600 026.

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	5228	ORDINARY APPLICATION	1605/CHE/2014	MULTIPURPOSE DRUG DELIVERING A PPARATUS FOR ORAL CARE	1760
2		E-101/15683/2014-CHE	1605/CHE/2014	Correspondence	0
3		E-2/2029/2014-CHE	1605/CHE/2014	Form2	0
4		E-3/1936/2014-CHE	1605/CHE/2014	Form3	0
5		E-6/14570/2014-CHE	1605/CHE/2014	Form5	0
Total :					1760

Received a sum of Rs. 1760 (Rupees One Thousand Seven Hundred & Sixty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Cheque	Indian Bank	217178	20/03/2014	1760

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



A.ARIVAZHAGAN, M.L., M.B.A.,
A. ROHINI SRI, B.A., B.L., (Hons)
ADVOCATES
(Patent, Trade Marks, Copy Right & Cyber Laws)

20th Day of March, 2014

To
The Controller of Patents,
Patents Office,
Guindy,
Chennai - 600032.

Sir,

We herewith enclose the PATENT APPLICATION under the Title "**MULTIPURPOSE DRUG DELIVERING APPARATUS FOR ORAL CARE**" and enclosing a Cheque bearing No.217178, dated 20.03.2014 for Rs.1760/- drawn on Indian Bank, M.G.R. Nagar Branch, Chennai.

Kindly Acknowledge the same.

Thanking You,

Yours faithfully

(A.ARIVAZHAGAN)

Advocate

Encl:

1. Patent Application Form 1,2,3 & 5
2. Cheque for Rs.1,760/-

ARIVAZHAGAN
26/3/14
PATENT OFFICE
GOVERNMENT OF INDIA
T.P.R. Building, GUNDEY
CHENNAI - 600 032

HEAD OFFICE: #38/13, DESIGAR STREET, VADAPALANI, CHENNAI - 600026
PH.No. 044 23652038 CELL: +91 9841304394 WEBSITE: www.leintelligensia.com

PATENT OFFICE
INTELLECTUAL PROPERTY BUILDING
G.S.T. Road, Guindy, Chennai-600032
Tel No. (091)(044) 22502081-84 Fax No. 044 22502066
E-mail : Chennai-patent@ipc.in
Web Site : www.ipindia.gov.in



CHALLAN : TR-5
DOCKET NO : 12367

F 245

Date/Time : 29/04/2014

Agent Number:

To,
S.CHELLAVIGNESH
C/O.A.ARIVAZHAGAN, ADVOCATE, 38/13,DESIGAR STREET, VADAPALANI, CHENNAI-600026

Sr. No.	CBR No.	Reference Number / Application Type	Application Number	Title/Remarks	Amount Paid
1	7668	ORDINARY APPLICATION	2161/CHE/2014	HOME KIT FOR SKIN AND ORAL CARE	1760
2		E-101/20945/2014-CHE	2161/CHE/2014	Correspondence	0
3		E-2/2523/2014-CHE	2161/CHE/2014	Form2	0
4		E-3/2480/2014-CHE	2161/CHE/2014	Form3	0
5		E-8/1745/2014-CHE	2161/CHE/2014	Form5	0
Total :					1760

Received a sum of Rs. 1760 (Rupees One Thousand Seven Hundred & Sixty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/ Draft Date	Amount in Rs
Cheque	Indian Bank	217195	24/04/2014	1760

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

Le Intelligensia[®]

A.ARIVAZHAGAN, M.L., M.B.A.,
A.ROHINI SRI, B.A., B.L., (Hons)
ADVOCATE
(Patent, Trade Marks, Copy Right & Cyber Laws)

24th Day of April, 2014

To
The Controller of Patents,
Patents Office,
Guindy,
Chennai - 600032.

Sir,

We herewith enclose the ONE PATENT APPLICATIONS and enclosing a Cheque bearing No. 217195 dated 24.04.2014 for Rs.1,760/- (Rupees One Thousand Seven Hundred and Sixty) drawn on Indian Bank, M.G.R. Nagar, Chennai.

The Titles is

1. "HOME KIT FOR SKIN AND ORAL CARE"

Kindly Acknowledge the same.

Thanking You,

Yours faithfully


(A.ARIVAZHAGAN)

Encl:

1. Patent Applications Form 1,2,3 & 5
2. Cheque for Rs.1,760/-

dc D 27/4/2014
PATENT OFFICE
GOVERNMENT OF INDIA
IPR Building, GUINDY
CHENNAI - 600032

HEAD OFFICE: #38/13, DESIGAR STREET, VADAPALANI, CHENNAI - 600026
PH.No. 044 23650394 CELL: +91 9841304394 WEBSITE: www.leintelligensia.com

(12) PATENT APPLICATION PUBLICATION

(21) Application No.3164/CHE/2014 A

(19) INDIA

(22) Date of filing of Application :30/06/2014

(43) Publication Date : 05/02/2016

(54) Title of the invention : A NOVEL MINI ORAL HYGIENE MONITORING DEVICE FOR DETECTING EARLY CARIES IN TOOTH AND GUM DIESEASE

(51) International classification	:A61C	(71)Name of Applicant :	1)TAGORE DENTAL COLLEGE AND HOSPITAL
(31) Priority Document No	:NA		Address of Applicant :RATHINAMANGALAM, CHENNAI -
(32) Priority Date	:NA		600 127 Tamil Nadu India
(33) Name of priority country	:NA	(72)Name of Inventor :	1)PROF. M. MALA
(86) International Application No	:NA		2)DR. CHITRA
Filing Date	:NA		3)R. CHANDRAN
(87) International Publication No	: NA		4)F. MICHAEL BERNAD PRASHANTH
(61) Patent of Addition to Application Number	:NA		
Filing Date	:NA		
(62) Divisional to Application Number	:NA		
Filing Date	:NA		

(57) Abstract :

This is a handheld device which is presumed to detect changes in the oral cavity. The aimed changes to be detected are the initial stages of dental caries and gingival (gums) changes. People refer the doctor only when there is pain or sensitivity or a certain amount of decay is present in the tooth, which is not the initial stage unfortunately. The initial stage is only a slight demineralization on the surface of the tooth which does not produce any symptom but can be immediately rematerialized under professional guidance. This device could check and detect the initial stage of dental caries using an optical caries detection method. Likewise, certain changes in gingival (gums) can also be detected using certain changes in their molecular structure so that the oral hygiene can be maintained.

No. of Pages : 9 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.1848/CHE/2014 A

(19) INDIA

(22) Date of filing of Application :07/04/2014

(43) Publication Date : 01/01/2016

(54) Title of the invention : PHARMACEUTICAL COMPOSITION AND METHOD FOR TREATMENT OF DENTAL CARRIES AND DENTAL PLAQUE

(51) International classification	:A61K 8/00	(71)Name of Applicant : 1)TAGORE DENTAL COLLEGE AND HOSPITAL Address of Applicant :RATHINAMANGALAM, CHENNAI - 600 127 Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	1)PROF. J. MALA
Filing Date	:NA	2)DR. CHITRA
(87) International Publication No	: NA	3)R. CHANDRAN
(61) Patent of Addition to Application Number	:NA	4)I. KANNAN
Filing Date	:NA	5)C. ARUN KUMAR
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT The invention is generally related to the prevention of dental caries and dental plaque. The present invention relates to the production of Quinic acid derivatives insilico having the property to inhibit the virulence factors responsible for the formation of dental plaque. The present embodiment aim to prevent the dental caries. The invention is additionally related to solve the problem tooth decay due to Streptococcus mutans. The present embodiment is a target specific and will inhibit only Streptococcus mutans bacteria in the formation of dental plaque and caries. A compound of the formula

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.1292/CHE/2013 A

(19) INDIA

(22) Date of filing of Application :25/03/2013

(43) Publication Date : 23/01/2015

(54) Title of the invention : PHARMACEUTICAL COMPOSITION AND METHOD FOR TREATMENT OF DENTAL CARRIES AND DENTAL PLAQUE

(51) International classification	:A61K	(71)Name of Applicant :
(31) Priority Document No	:NA	1)TAGORE DENTAL COLLEGE AND HOSPITAL
(32) Priority Date	:NA	Address of Applicant :RATHINAMANGALAM, CHENNAI -
(33) Name of priority country	:NA	600 127 Tamil Nadu India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)PROF. J. MALA
(87) International Publication No	: NA	2)DR. CHITRA
(61) Patent of Addition to Application Number	:NA	3)R. CHANDRAN
Filing Date	:NA	4)I. KANNAN
(62) Divisional to Application Number	:NA	5)F. MICHAEL BERNARD PRASHANTH
Filing Date	:NA	

(57) Abstract :

The invention is generally related to the prevention of dental caries and dental plaque. The present invention relates to the methanolic and chloroform extracts obtained from the aerial roots of Banyan tree has the antibacterial activity against Streptococcus mutans. The present embodiment aims to prevent the dental caries. The invention is additionally related to solve the problem tooth decay due to Streptococcus mutans. The present embodiment is a target specific and will inhibit only Streptococcus mutans bacteria in the formation of dental plaque and dental caries.

No. of Pages : 16 No. of Claims : 4