

**Patent:**

<b>S N</b>	<b>Name of Patent Awardee</b>	<b>Patent Number</b>	<b>Title of the Patent</b>	<b>Year Patent was awarded/ Published</b>
1	<b>Inventors:</b> Dr. Gowtham Kumar Subbaraj Dr. Hikku Gnanadhas Sobhin Osannal Mr.Y.Santhosh Kumar <b>Applicant:</b> Chettinad Academy of Research and Education	202141056736	System and fabrication of replica plating apparatus and applications Thereof	17/12/2021 (Patent Published)
2	<b>Inventors:</b> Dr. Kurunchi C Divya <b>Applicant:</b> Chettinad Academy of Research and Education	202141056711	Oral delivery of insulin using hybrid nanoparticles	17/12/2021 (Patent Published)
3	<b>Inventors:</b> Dr. S. Weslen Vedakumari and Ms. B. Jayavardhini <b>Applicant:</b> Chettinad Academy of Research and Education	202141056723	Polymeric scaffolds for wound treatment	17/12/2021 (Patent Published)
4	<b>Inventors:</b> Dr. Ramakrishnan. V, Keerthana.S <b>Applicant:</b> Chettinad Academy of Research and Education	202141056718	Genetic polymorphisms associated with preeclampsia and recurrent Pregnancy loss, methods of detection and uses thereof	17/12/2021 (Patent Published)
5	<b>Inventors:</b> Dr. Ramakrishnan and V, Aswathi. P <b>Applicant:</b> Chettinad Academy of Research and Education	202141056709	Methods and testing the use of lepr gene polymorphisms in type-2 diabetes Mellitus and uses thereof	17/12/2021 (Patent Published)
6	<b>Inventors:</b> Dr. Surajit Pathak Suman Adhikari, Tirtha Bhattacharjee <b>Applicant:</b> Chettinad Academy of Research and Education	202141056720	A facile and efficient aqueous medium synthesis of novel ni (ii) Coordination compound and its superior dna binding ability	17/12/2021 (Patent Published)
7	<b>Inventors:</b> Dr. Antara Banerjee and Suman Adhikari, Tirtha Bhattacharjee <b>Applicant:</b> Chettinad Academy of Research and Education	202141056742	Method for proficient, high yield synthesis of novel pd(ii) coordination Compound based on dithiolat	17/12/2021 (Patent Published)

8	<b>Inventors:</b> Dr. Shoba Narayan and Saraswathi N <b>Applicant:</b> Chettinad Academy of Research and Education	202141056739	Gold core stabilized silica nanocomposites with antimicrobial peptides And drugs, preparation and us	17/12/2021 (Patent Published)
9	<b>Inventors:</b> Dr. Shiek SSJ Ahmed, Ms Monisha KG and Dr Chokkalingam M <b>Applicant:</b> Chettinad Academy of Research and Education	202141056743	Levels circulating linc00520 and dbhas1 Incrnas as diagnostic markers for coronary artery disease	07/12/2021 (Patent filed)
10	<b>Inventors:</b> Dr. Saravanan Ramachandran, Dr G.S.Hikku and S. Vignesh <b>Applicant:</b> Chettinad Academy of Research and Education	202141056738	Chitosan biosphere preparation and metal adsorptionfrom used engine oil thereof	17/12/2021 (Patent Published)
11	<b>Inventors:</b> Koyeli Girigoswami Ramachandran Murugesan Agnishwar Girigoswami Keerthana V Jothika S Kavitha D <b>Applicant:</b> Chettinad Academy of Research and Education	202041051665	Method of preparation of GO-TiO2 nanocomposite and use thereof	04/12/2020 (Patent Published)
12	<b>Inventors:</b> Antara Banerjee Surajit Pathak Ramachandran Murugesan <b>Applicant:</b> Chettinad Academy of Research and Education	202041051674	A method to induce rapid transdifferentiation of mesenchymal stem cells and its application thereof.	04/12/2020 (Patent Published)
13	<b>Inventors:</b> Karunanithi Rajamanickam Prema C Sabitha S Yamini P Ramachandran Murugesan <b>Applicant:</b> Chettinad Academy of Research and Education	202041051663	Method And Process For The Evaluation Of Chemotherapeutic Pseudo-Progression In Brain Tumours Using Quantitative Perfusion MRI	04/12/2020 (Patent Published)
14	<b>Inventors:</b> Karunanithi Rajamanickam Prema C Sabitha S Yamini P Ramachandran Murugesan <b>Applicant:</b> Chettinad Academy of Research and Education	202041051676	Method And Process For The Evaluation Of Chemotherapy In Brain Tumours Using Tumour-Segmentation Of MR Images	04/12/2020 (Patent Published)

15	<p><b>Inventors:</b> Koyeli Girigoswami          Agnishwar Girigoswami          Ramachandran Murugesan          Gopikrishna A  <b>Applicant:</b> Chettinad Academy of Research and Education</p>	202041051698	Method and process of nanoformulation of liposomal myricetin and uses thereof	04/12/2020 (Patent Published)
16	<p><b>Inventors:</b> Gowtham kumar Subbaraj          Murugesan Ramachandran          Sindhu Varghese          Hikku  <b>Applicant:</b> Chettinad Academy of Research and Education</p>	202041051678	System and Fabrication Of A Microbial Streaking Apparatus And Application Thereof	04/12/2020 (Patent Published)
17	<p><b>Inventors:</b> Ramakrishnan. V          Iyshwarya B.K          Keerthana. P          Sivashankar. A          Murugesan Ramachandran  <b>Applicant:</b> Chettinad Academy of Research and Education</p>	202041051672	Genetic Polymorphisms Associated with Fibroadenoma, Methods of detection and use thereof	11/12/2020 (Patent Published)
18	<p><b>Inventors:</b> Sathyaraj          Weslen Vedakumari          Jayavardhini Bhoopathy          Arjun Sathish Kumar          Ramachandran Murugesan  <b>Applicant:</b> Chettinad Academy of Research and Education</p>	202041051689	Method and preparation of sericin scaffolds reinforced with biomacromolecules and uses there of	11/12/2020 (Patent Published)
19	<p><b>Inventors:</b> Ambigapathi Moorthi; Sai Nievethitha Sethu; Namasivayam Subhapradha; Narasimhan Srinivasan; Ramachandran Murugesan  <b>Applicant:</b> Chettinad Academy of Research and Education</p>	201841000244	Method of nanoformulation of Hesperetin for enhancement of properties and uses	1/11/2019 (Patent Published)
20	<p><b>Inventors:</b> Karunanithi Rajamanickam; Saraswathi.S; Joy Sebastian Prakash.J; Murugesan Ramachandran  <b>Applicant:</b> Chettinad Academy of Research and Education</p>	201841000239	System and Methods to determine structural and functional changes in T1 weighted and functional MRI images in human brain	1/11/2019 (Patent Published)

21	<b>Inventors:</b> Manigandan Venkatesan; Karthik Ramachandran; Saravanan Ramachandran; Murugesan Ramachandran <b>Applicant:</b> Chettinad Academy of Research and Education	201841000238	Process, extraction of Low Molecular Weight Sulfated Chitosans (LMWSC) and their application in the treatment of Neurological disease	1/11/2019 (Patent Published)
22	<b>Inventors:</b> Gowtham Kumar Subbaraj; Sindhu Varghese <b>Applicant:</b> Chettinad Academy of Research and Education	201841000242	A system and device for dispensing sterile microbial culture	1/11/2019 (Patent Published)
23	<b>Inventors:</b> Ramakrishnan V; Hafsa .S; Santhosh .V Sivarshini .S <b>Applicant:</b> Chettinad Academy of Research and Education	201941026213	ESR1 PvuII and XbaI polymorphism Associated with Coronary Artery Disease, Methods of detection and uses thereof	02/08/2019 (Patent Published)
24	<b>Inventors:</b> Jyothi Ashok Kumar; Thotakura Balaji; C.Swathi Priyadarshini; Ramachandran Murugesan; <b>Applicant:</b> Chettinad Academy of Research and Education	201941026211	Street Maze to assess learning and memory in rodents	12/07/2019 (Patent Published)
25	<b>Inventors:</b> Shoba Narayan; Nikitha Shalom Richard; Sangamithra Nehru; Soniya Pushparaj; Subitha Palaniraj; Geeva; Chokkalingam Meyyapan, Ramachandran Murugesan <b>Applicant:</b> Chettinad Academy of Research and Education	201941026200	Novel Injectable Biocompatible Carriers for Cardiac Tissue Repair and Regeneration	12/07/2019 (Patent Published)
26	<b>Inventors:</b> SSJ Shiek Fareeth Ahmed Murugesan.R; Gnanakkumaar Athira Anirudhan; Meenalochini M; Rukshana Parveen T; Sruthi B; Prema B.K; Vidhya P <b>Applicant:</b> Chettinad Academy of Research and Education	201941026204	Method and process for the detection of metal induced toxicity based on Fourier Transform infrared spectroscopy	12/07/2019 (Patent Published)

27	<p><b>Inventors:</b> SSJ Shiek Fareeth Ahmed;          Murugesan.R; Gnana kumaar; Athira Anirudhan;          Muumina M          Monisha Ganesh K M  <b>Applicant:</b> Chettinad Academy of Research and Education</p>	201941026208	Method and non-invasive process for screening of coronary artery disease using Fourier Transform Infrared Spectroscopy.	12/07/2019 (Patent Published)
28	<p><b>Inventors:</b>Sathyaraj Weslen          Vedakumari;Raveendra Rubiya;Keerthivasan Iyswariya; Shalini Thomas;Venkatesan Divya;Ramachandra Murugasen  <b>Applicant:</b> Chettinad Academy of Research and Education</p>	201941026201	Angiogenic nanocomposites for tissue repair and regeneration	12/07/2019 (Patent Published)
29	<p><b>Inventors:</b> Karunanithi Rajamanickam; Sharon Jebamalar; Joy Sebastian Prakash J;Ramachandran Murugasen  <b>Applicant:</b> Chettinad Academy of Research and Education</p>	201941026202	Method And Process For Producing Functional Connectivity Index From RS-FMRI For Autism Spectrum Disorder (ASD) And Uses Thereof	12/07/2019 (Patent Published)
30	<p><b>Inventors:</b>Saravanan Ramachandran;Jeneesha George;Gomathy V;Janani priya V;Manigandan Venkatesan;Ramachandran Murugasen;  <b>Applicant:</b> Chettinad Academy of Research and Education</p>	201941026209	Extraction and formulation of agar from brown seaweed & use of their anticancer properties	12/7/2019 (Patent Published)
31	<p><b>Inventors:</b>Sathyaraj Weslen Vedakumari;Shalini Thomas;Keerthivasan Iyswariya;Raveendran Rubiya;Bhoopathy Jayavardhini;Ramachandra n Murugasen  <b>Applicant:</b> Chettinad Academy of Research and Education</p>	201941026203	Nanostructured Magentic Sericin - Method and process of fabrication of and uses thereof	12/07/2019 (Patent Published)
32	<p><b>Inventors:</b>Ramakrishnan.V ;Pallavi Kesavan;Aiswarya P.S;Umamaheshwari.V  <b>Applicant:</b> Chettinad Academy of Research and Education</p>	201941026210	Genetic Polymorphisms Associated with Migraine (Headache), Methods of detection and uses thereof	12/07/2019 (Patent Published)

33	<b>Inventors:</b> Shoba Narayan; Rathi Usha Kannan;Geeva <b>Applicant:</b> Chettinad Academy of Research and Education	201841000245	Design Development and Use of pH - Sensitive multifunctional gold nanorods	05/07/2019 (Patent Published)
34	<b>Inventors:</b> Surajit Pathak; Sushmitha Sriramulu; Antara B anerjee; Ganesan Jothimani; Murugesan Ramachandran Marotta Francesco <b>Applicant:</b> Chettinad Academy of Research and Education	201841000251	Method and process of conditioned medium derived from mesenchymal stem cells	05/07/2019 (Patent Published)
35	<b>Inventors:</b> Antara Banerjee; Ganesan Jothimani; Pathak Surajit ; Sushmitha Sriramulu; Murugesan Ramachandran <b>Applicant:</b> Chettinad Academy of Research and Education	201841000240	Methods, effects and application of inhibition of Wnt $\beta$ catenin signaling pathway in mesenchymal stem cells	05/07/2019 (Patent Published)
36	<b>Inventors:</b> Ramakrishnan V; Bhavani B <b>Applicant:</b> Chettinad Academy of Research and Education	201841000248	Method and testing the use of ESR1 gene polymorphisms in infertility	05/07/2019 (Patent Published)
37	<b>Inventors:</b> Weslen Vedakumari Sathyaraj;Jayalakshmi Rajendran; Murugesan Ramachandran <b>Applicant:</b> Chettinad Academy of Research and Education	201841000243	Fabrication and use of novel nanoscaffolds	05/07/2019 (Patent Published)
38	<b>Inventors:</b> Thamarachelvan Arunachalam; Priyanga Gandhi Chellakannu; AnithaVijayarangan, Murugesan Ramachandran <b>Applicant:</b> Chettinad Academy of Research and Education	201741001079	Paper Based Analytical Device for the Detection of Salivary Biomarkers	13/07/2018 (Patent Published)
39	<b>Inventors:</b> Shoba Narayan; Surajit Pathak; Rachel Karena; Moorthi Ambigapathi; Srinivasan Narasimhan; Murugesan Ramachandran <b>Applicant:</b> Chettinad Academy of Research and Education	201741001087	A method and development of a nanoscaffold for delivery of agents for stem cell differentiation	13/07/2018 (Patent Published) 06.08.2020 (Patent Awarded) Award No: 343553

40	<b>Inventors:</b> Agnishwar Girigoswami; Haribabu V ; Koyeli Girigoswami <b>Applicant:</b> Chettinad Academy of Research and Education	201741001085	Label-free biocompatible magnetoflourent nanoclusters for multimodal imaging	13/07/2018 (Patent Published)
41	<b>Inventors::</b> Weslen Vedakumari Sathyaraj; Murugesan Ramachandran <b>Applicant:</b> Chettinad Academy of Research and Education	201741001094	Fabrication of sericin modified monetite for bone tissue engineering	13/07/2018 (Patent Published)
42	<b>Inventors::</b> Weslen Vedakumari Sathyaraj; Murugesan Ramachandran <b>Applicant:</b> Chettinad Academy of Research and Education	201741001086	A method for crafting metal nanoparticle based biosensor for detection of plasmin in biofluids	13/07/2018 (Patent Published)
43	<b>Inventors::</b> Moorthi Ambigapathi; Shoba Narayan; Azeena Saleem; Subhapradha Namasivayam; Srinivasan Narasimhan; Murugesan Ramachandran <b>Applicant:</b> Chettinad Academy of Research and Education	201741001091	Polymeric matrix containing metal doped ceramic for tissue engineering	13/07/2018 (Patent Published)
44	<b>Inventors::</b> Satish Ramalingam; Shoba Narayan; Surajit Pathak; Liza Mary <b>Applicant:</b> Chettinad Academy of Research and Education	201741001089	A method and process for the efficacy enhancement of activities of Bioflavonoids	13/07/2018 (Patent Published)
45	<b>Inventors::</b> Surajit Pathak; Murugesan Ramachandran; Madhumala Gopinath <b>Applicant:</b> Chettinad Academy of Research and Education	201741001093	A method and process for evaluating the quality of mesenchymal stem cells	13/07/2018 (Patent Published)
46	<b>Inventors::</b> Surajit Pathak; Murugesan Ramachandran; Vimala Devi Subramanian; <b>Applicant:</b> Chettinad Academy of Research and Education	201741001095	Method and process for screening toxicity of cosmetic products containing nanoparticles	13/07/2018 (Patent Published)
47	<b>Inventors:</b> Thangavel M; Subitha P <b>Applicant:</b> Chettinad Academy of Research and Education	201741001096	Method and process for accessing efficacy of anticancer agent	13/07/2018 (Patent Published)

48	<b>Inventors:</b> Kurunchi C Divya Murugesan R Srinivasan N <b>Applicant:</b> Chettinad Academy of Research and Education	201741001090	Development method and process for the detection of drug resistant water borne pathogens	13/07/2018 (Patent Published)
49	<b>Inventors:</b> Girigoswami Koyeli; Agnishwar Girigoswami; Murugesan Ramachandran; Akhtar Nazim <b>Applicant:</b> Chettinad Academy of Research and Education	201741001092	Sensor for amyloid detection based on ZnOnanoflower platform	13/07/2018 (Patent Published)
50	<b>Inventors:</b> D MathangiD Chandrasekar; A Ahamed Basha <b>Applicant:</b> Chettinad Academy of Research and Education	201641044254	Design of multi- metabolic cage for small laboratory animals	29/06/2018 (Patent Published)
51	<b>Inventors:</b> Vincent Alexander; Shiek Fareeth Ahmed; Ramachandran Murugesan ;Pradeep G Nair <b>Applicant:</b> Chettinad Academy of Research and Education	5414/CHE/201 5	System and Process for Nitric Oxide Estimation in Fluids	30/06/2017 (Patent Published)
52	<b>Inventors:</b> : Metkar Sanjay Kisan; Girigoswami Koyeli; Agnishwar Girigoswami; Murugesan Ramachandran <b>Applicant:</b> Chettinad Academy of Research and Education	5415/CHE/201 5	Degradation Process of Amyloid Fibrils by Serratiopeptidase	30/06/2017 (Patent Published)
53	<b>Inventors:</b> : Metkar Sanjay Kisan; Girigoswami Koyeli; Agnishwar Girigoswami; Murugesan Ramachandran <b>Applicant:</b> Chettinad Academy of Research and Education	5412/CHE/201 5	Denaturation of Amyloids by Lumbrokinase	14/04/2017 (Patent Published)
54	<b>Inventors:</b> : Dupesh Khan S; Pandiyan N; Kanchana Dev <b>Applicant:</b> Chettinad Academy of Research and Education	5239/CHE/201 4	A method for lyophylisation of human spermatozoa	01/7/2016 (Patent Published)