

Prof.Dr.R.Murugesan., Ph.D Emeritus Professor Advisor- Research

Karpaga Vinayaga Instituite of Medical Sciences & Research Centre, GST Road Chinna Kolambakkam, Palayanoor (PO) Tamil Nadu 603 308

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Prof. R. Murugesan, a gold medalist in UG and PG programs, received his Ph.D degree from Regional Sophisticated Instrumentation Center, the Indian Institute of Technology, Madras in the year 1981. Following several years of research experience in The Netherland, USA and Australia, he joined Madurai Kamaraj University, India as Associate Professor where he went onto become Dean, Academic Affairs and Computerization. He was involved in many interdisciplinary research and teaching programs. His research group was engaged in the development of biodegradable multifunctional nanoparticles for efficacy enhancement in Photo Dynamic Therapy of cancer as well as development of Electron Magnetic Resonance Imaging (EMRI) Scanner for imaging free radicals '*in vivo*'.

Prof.Murugesan has travelled widely abroad (as Visiting Professor/Scientist) and collaborated with many international groups. His collaborative research with the Radiation Biology Branch, **National Cancer Institute**, **NIH**, **USA** to develop RF-FT EMR spectroscopy and imaging for cancer research resulted in FT EMR imaging of live mice for the first time. His contributions for the development of pulsed RFFT EMR imaging, FEDRI (Fluorine Electron Double Resonance Imaging) and OMRI (Overhauser enhanced Magnetic Resonance Imaging)techniques for imaging free radicals *in vivo are* covered by a number of patents and publications in international journals. He was also involved in collaborative research with Faculty of Pharmaceutical Sciences, Kyushu University, Japan for development live small animal imaging technology for translational research.

Prof.Murugesan has also worked on the development of many Artificial Intelligence-(AI)- based algorithms for Medical Image Reconstruction and Analysis. His research in drug design and biomarker discovery makes extensive use of AI based-data mining techniques in chem- and bio- informatics. Dr.R. Murugesan moved in the year 2012 to Chettinad Academy of Research and Education (CARE) as Director, Faculty of Allied Health Sciences, where he contributed in the development of various innovative UG and PG interdisciplinary programmes. Later from 2015 to Aug 2021, he served CARE as Director, Research, motivating many young faculty members to get actively involved in interdisciplinary translational research, with emphasis on patentable research. Henurtured and molded them as quality conscious researchers which resulted in quality publications in high impact journals and extramural research grants from various agencies. His research interest covers wide areas such as medical imaging, nanoparticles for drug delivery, cancer cell sorting and drug sensitivity assessment, biomarker discovery, low cost systems for point of care diagnosis and evidence-based nursing research.

Dr. R Murugesan has published over 180 research papers in international journals and has presented 50 papers in international and 40 papers in national conferences. He has 6 patents and 3 copyrights to his credit. In addition, 43 of his patent applications have been published and are in various stages of examination. As an interdisciplinary researcher he has guided 35 doctoral students for Ph.D in the areas of Chemistry, Physiscs, Biology, nanotechnology, Computer Science and Nursing.

Dr. Murugesan has served as member in many expert committees, including UGC's Expert Committees on Commonwealth Academic Fellowship Selection and Evaluation and Research Funding Council – Major and Minor Research Projects. He has also received awards/recognitions such as National Trainee Award, Biomedical ESR Center, Milwaukee, USA; Visiting Professor, Kyushu University, Japan; Visiting Scientist National Cancer Institute, USA: Research Fellow, Australian National University, Canberra.

Research Profile

No of Papers published in	208
Scopus/WOS/Pubmed indexed Journals	
No of Papers published in Proceedings	15
No of Patents Awarded	6
No of Patents Filed and Published	36
Copy Rights	4
No of Citations	3996

h-Index	45
i-10Index	103
No of Ph.D Guided	35
No of UG/PG/M.Phil Guided	10/30/12
Papers presented in International/National	50/42
conferences	
Extramural funded Projects/Grant	6/~1 Core
Books/Book Chapters/ Monographs	10

Research Interests:

Nanomedicine, Medical Imaging, Artificial Intelligence in Medicine, Bioinformatics and Drug Discovery Biomarkers discovery and Low-cost diagnostic kits development, Biomaterials, Biomedical Magnetic Resonance, Photodynamic Therapy.

Professional Experience:

2021 Nov-Till Date	Advisor- Research
	Karpaga Vinayag Instituite of Medical Sciences
	&Research Centre
2015-2021	Director-Research
	Chettinad Academy of Research and
	Education(CARE)
	Kelmabakkam-603103
2012-2014	Director, Faculty of Allied Health Sciences, CARE,
	Kelmabakkam-603103
2008-2012	Emeritus Professor, Networking Resource Centre in
Biological	
-	Sciences, Madurai Kamaraj University
2007–2008	Senior Professor, Bio Physical Chemistry, Madurai
Kamaraj	
	University
2002-2004	DEAN(Academic: Teaching &Computerization)
	Madurai Kamaraj University
2000 - 2002	Coordinator, Madurai Kamaraj University

1998-2000	Head, MCA Programme & Computer Center,
	Madurai Kamaraj University
1998-2000	Placement Coordinator, MCA Programme,
	Madurai Kamaraj University
1997 – 2007	Professor, Physical Chemistry,
	Madurai Kamaraj University

Awards & Recognitions:

- B.Sc Gold Medalist, St. Xavier's College, Palayamkottai, 1969
- M.Sc University First Rank, Bagthavathchalam memorial prize, Madurai Kamaraj University, 1971
- National trainee award, National Biomedical ESR Center, Milwaukee, Wisconsin, USA, 1984
- Visiting Scientist, National Cancer Institute, USA 2001
- Visiting Professor, Kyushu University, Dec 2005 -Feb 2006
- Member, Expert Committee, Commonwealth Academic Staff Fellowship selection for the year 2005,
- University Grants Commission, New Delhi, December 2004
- Member, Expert Committee, Evaluation and Research Funding Council Major and Minor Research Projects, University Grants Commission, New Delhi, August 2004
- Member, Expert Committee, Evaluation and Research Funding Council Major and minor research projects, University Grants Commission, New Delhi, July 2005
- Reviewer: *IEEE Transactions on Biomedical Engineering *Artificial Intelligence in Medicine * Nanomedicine * J. *Process Biochemistry

• Educational Qualifications

- Ph. D Chemistry, Regional Sophisticated Instrumentation Center, IIT, Madras
- M. Sc Chemistry, Madurai Kamaraj University, Madurai
- Certificate Course: Microprocessors Applications, BIT, Canberra, Australia

Visits Abroad:

Sl No	Country Visited	Year	Purpose of Visit
1	The Netherlands	Dec'81 – Jun'82	Post Doctoral Research Fellow – Study of Magnetic
			ordering and spin diffusion in low dimensional magnetic
			materials by ESR with Prof. E. de Boer - University of
-		x 1 100 A 105	Nijmegen, The Netherlands
2	USA	July'82- Apr'85	Research Associate – Time Resolved EPR Spectroscopy
			with Prof.S.I. Weissman, Wasnington University, St.Louis
2	Austrolio	May'85 Dae'86	MO, USA Development of New Instrumentation for
3	Australia	May 85 -Dec 80	Zero Field ESP with Dr P. Bramley Pesearch School of
			Chemistry Australian National University Canberra
			Australia
4	USA	Oct'93	Collaborative Research – RF-FT-EPR Imaging- Radiation
			Biology Branch, National Cancer Institute, NIH, Bethesda,
			MD
5	USA	May'94 –Jun'96	Visiting Scientist – RF-FT-EPR Imaging at the Radiation
			Biology Branch, National Cancer Institute, NIH, Bethesda,
			MD
6	Italy	Sept 10-14, 1995	To present a paper in an International workshop and
			symposium at L'aquila, Italy
7		N 207 A 207	
/	USA	Mar 9/-Apr 9/	Collaborative Research project discussions – Radiation
			MD
8	Japan	Oct'12-16, 1997	To present a paper in an International Conference at
Ũ	vapan		Yamagata, Kyoto, Japan and to visit Institute of Advanced
			Energy, Kyoto University
9	USA	May'98-June'98	Collaborative Research – Radiation Biology Branch,
		_	National Cancer Institute, NIH, Bethesda, MD
10	USA	May'99-June'99	Collaborative Research – Radiation Biology Branch,
			National Cancer Institute, NIH, Bethesda, MD
11	USA	Dec'00-Dec'01	Visiting Scientist- Radiation Biology Branch, National
10		N. 102 X 102	Cancer Institute, NIH, Bethesda, MD
12	USA	May'02_June'02	Collaborative Research – Radiation Biology Branch,
12	T	20.2.02 += 10.4	National Cancer Institute, NIH, Bethesda, MD
13	Japan	29-3-03 to 10-4-	10 present a paper in an international Conference and deliver special lectures at Knushu University Japan
14	USA	$\frac{0.0}{1000}$	Collaborative Research Medical Imaging Padiation
14	USA	June 05_July 05	Biology Branch National Cancer Institute NIH Rethesda
			MD
15	USA	Dec 03	Collaborative Research Medical Imaging – Radiation
_	-		Biology Branch, National Cancer Institute, NIH, Bethesda,
			MD

16	USA	Sept 04	Collaborative Research Medical Imaging – Radiation
		-	Biology Branch, National Cancer Institute, NIH, Bethesda,
			MD
17	USA	Feb 05	Collaborative Research Medical Imaging – Radiation
			Biology Branch, National Cancer Institute, NIH, Bethesda,
			MD
18	USA	May-June 05	Collaborative Research Medical Imaging – Radiation
			Biology Branch, National Cancer Institute, NIH, Bethesda,
			MD
19	Japan	Dec05-Feb06	Visiting Professor, Kyushu University, Japan
20	USA	June 06	Collaborative Research – Radiation Biology
			Branch, National Cancer Institute, NIH, Bethesda, MD
21	Japan	September 06	Collaborative Research, Faculty of
			Pharmaceutical sciences, Kyushu University, Japan
22	Japan	Feb07-March07	Collaborative Research, Faculty of
			Pharmaceutical sciences, Kyushu University, Japan
23	Japan	7 th May -30 th	Collaborative Research, Faculty of
		June 07	Pharmaceutical sciences, Kyushu University, Japan
24	Japan	18 th 27 th Aug	Collaborative Research, Faculty of
		07	Pharmaceutical sciences, Kyushu University, Japan
25	Japan	6th –10th Mar	Invited Speaker Prof. Utsumi's retirement Symposium on
		2010	"The relation between University and the promotion of
			Science and Technology" at Faculty of Pharmaceutical
			sciences, Kyushu University, Japan
26	Canada	May 28-June5,	Invited Faculty, IC-IMPACTS Summer Institute on
		2016	Nanotechnologies for Safe & Sustainable Infrastructure,
			Integrated Water Management and Public Health.

PATENTS

Awarded 7: (WORLD – 1, USA – 4, India 2)

- 1. System and Method for performing In-Vivo imaging and Oxymetry and FT Microscopy by pulsed radiofrequency electron paramagnetic resonance, **Ramachandran Murugesan**, Rolf Tschudin, Sankaran Subramanian, James Mitchell, Murali Cherukuri Krishna, US Patent No. 5,678,548, Oct 21, 1997.
- 2. System and method for performing in vivo imaging and oxymetry and FT microscopy by pulsed radiofrequency electron paramagnetic resonance", **Ramachandran Murugesan**, Murali K. Cherukuri James B. Mitchell, Sankaran Subramanian Rolf G. Tschudin, WO 97/04331 Feb. 6, 1997.

- 3. Gated RF Preamplifier for use in pulsed Radiofrequency electron paramagnetic resonance and MRI, Rolf Tschudin, **Ramachandran Murugesan**, Sankaran Subramanian, James Mitchell, Murali Cherukuri Krishna, US patent No: 5,828,216, Oct 27, 1998.
- 4. Invivo imaging and oxymetry by pulsed radio frequency paramagnetic resonance", **Ramachandran Murugesan,** Murali K. Cherukuri James B. Mitchell, Sankaran Subramanian, Rolf G. Tschudin, US patent No. 5, 865, 746, Feb.2, 1999.
- Resonant structure for spatial and spectral-spatial imaging of free radical spin probes using radiofrequency time domain electron paramagnetic resonance", Nallathamby Devasahayam, James B. Mitchell, Angelo Russo, John Cook, Mobae Afeworki, Rolf G Tschudin, Sankaran Subramanian, Ramachandran Murugesan, Frank S. Harrington, Murali K. Cherukuri US Patent US 6,573,720 B1, June 3, 2003
- Resonant structure for spatial and spectral-spatial imaging of free radical spin probes using radiofrequency time domain electron paramagnetic resonance", Nallathamby Devasahayam, James B. Mitchell, Angelo Russo, John Cook, Mobae Afeworki, Rolf G Tschudin, Sankaran Subramanian, Ramachandran Murugesan, Frank S. Harrington, Murali K. Cherukuri WO 98/54590, 3 Dec, 1998.
- A method and development of a nanoscaffold for delivery of agents for stem cell, Shoba N, Surjit P, Rachel Karena, Moorthi A, Srinivasan N, Murugesan R, Patent No. 343553, 201741001087,11/01/2017.

Sl No	Inventors	Patent Title	Ref.Number Filed Date	Published Date
1.	Sanjay K M Koyli G Agnishwar G Murugesan R	Denaturation of Amyloids by Lumbrokinase	09/10/2015 5412/CHE/2 15	14/04/2017 (Patent Published)
2.	Sanjay K M Koyeli G Agnishwar G Murugesan R	Degradation Process of Amyloid Fibrils by Serratiopeptidase	09/10/2015 5415/CH E/2015	30/06/2017 (Patent Published)
3.	Alexander V ShiekFareeth Ahmed SSJ Murugesan R Pradeep G Nair	System and Process for Nitric Oxide Estimation in Fluids	09/10/2015 5414/CH E/2015	30/06/2017 (Patent Published)

7

	Suraiit P		11/01/2017	13/07/2018
	Murugesan R	A method and	2017/100	(Patent
4.	Madhumala G	process for	1093	Published)
		evaluating the	1075	
		quality of		
		mesenchymal		
		stem cells		
	Moorthi A	Polymeric	11/01/2017	13/07/2018
5	Shoba N	matrix	20174100	(Patent
5.	Azeena S	containing	1091	Published)
	SubhapradhaN	metal doped		
	Srinivasan N	ceramic for		
	Murugesan R	tissue		
		engineering		
		A method for	11/01/2017	13/07/2018
0.	WeslenVedakumari S	crafting metal	20174100	(Patent
	Murugesan R	nanoparticle	1086	Published)
		based biosensor		
		for detection of		
		plasmin in		
		biofluids		
		Entrication of	11/01/2017	13/07/2018
7	WeslenVedakumar S	sericin modified	20174100	(Patent
7.	Murugesan R	monetite for hone	1094	Published)
		tissue engineering		
	Shoba N			13/07/2018
	Shoba N Surajit P	A method and	11/01/2017	13/07/2018 (Patent
8.	Shoba N Surajit P Rachel KarenaMoorthi A	A method and development of a	11/01/2017 20174100	13/07/2018 (Patent Published)
8.	Shoba N Surajit P Rachel KarenaMoorthi A Srinivasan N	A method and development of a nanoscaffold for delivery of agents	11/01/2017 20174100 1087	13/07/2018 (Patent Published) Approved
8.	Shoba N Surajit P Rachel KarenaMoorthi A Srinivasan N Murugesan R	A method and development of a nanoscaffold for delivery of agents for stem cell	11/01/2017 20174100 1087	13/07/2018 (Patent Published) Approved
8.	Shoba N Surajit P Rachel KarenaMoorthi A Srinivasan N Murugesan R	A method and development of a nanoscaffold for delivery of agents for stem cell differentiation	11/01/2017 20174100 1087	13/07/2018 (Patent Published) Approved
8.	Shoba N Surajit P Rachel KarenaMoorthi A Srinivasan N Murugesan R Surajit P	A method and development of a nanoscaffold for delivery of agents for stem cell differentiation	11/01/2017 20174100 1087 03/01/2018	13/07/2018 (Patent Published) Approved 13/07/2018
8. 9.	Shoba N Surajit P Rachel KarenaMoorthi A Srinivasan N Murugesan R Surajit P Sushmitha S	A method and development of a nanoscaffold for delivery of agents for stem cell differentiation Method and	11/01/2017 20174100 1087 03/01/2018 20184100	13/07/2018 (Patent Published) Approved 13/07/2018 (Patent
8. 9.	Shoba N Surajit P Rachel KarenaMoorthi A Srinivasan N Murugesan R Surajit P Sushmitha S Antara B	A method and development of a nanoscaffold for delivery of agents for stem cell differentiation Method and process of	11/01/2017 20174100 1087 03/01/2018 20184100 0251	13/07/2018 (Patent Published) Approved 13/07/2018 (Patent Published)
9.	Shoba N Surajit P Rachel KarenaMoorthi A Srinivasan N Murugesan R Surajit P Sushmitha S Antara B Ganesan J	A method and development of a nanoscaffold for delivery of agents for stem cell differentiation Method and process of conditioned	11/01/2017 20174100 1087 03/01/2018 20184100 0251	13/07/2018 (Patent Published) Approved 13/07/2018 (Patent Published)
8. 9.	Shoba N Surajit P Rachel KarenaMoorthi A Srinivasan N Murugesan R Surajit P Sushmitha S Antara B Ganesan J Murugesan R	A method and development of a nanoscaffold for delivery of agents for stem cell differentiation Method and process of conditioned medium derived	11/01/2017 20174100 1087 03/01/2018 20184100 0251	13/07/2018 (Patent Published) Approved 13/07/2018 (Patent Published)
8. 9.	Shoba N Surajit P Rachel KarenaMoorthi A Srinivasan N Murugesan R Surajit P Sushmitha S Antara B Ganesan J Murugesan R Marotta F	A method and development of a nanoscaffold for delivery of agents for stem cell differentiation Method and process of conditioned medium derived from	11/01/2017 20174100 1087 03/01/2018 20184100 0251	13/07/2018 (Patent Published) Approved 13/07/2018 (Patent Published)
8. 9.	Shoba N Surajit P Rachel KarenaMoorthi A Srinivasan N Murugesan R Surajit P Sushmitha S Antara B Ganesan J Murugesan R Marotta F	A method and development of a nanoscaffold for delivery of agents for stem cell differentiation Method and process of conditioned medium derived from mesenchymal	11/01/2017 20174100 1087 03/01/2018 20184100 0251	13/07/2018 (Patent Published) Approved 13/07/2018 (Patent Published)
9.	Shoba N Surajit P Rachel KarenaMoorthi A Srinivasan N Murugesan R Surajit P Sushmitha S Antara B Ganesan J Murugesan R Marotta F	A method and development of a nanoscaffold for delivery of agents for stem cell differentiation Method and process of conditioned medium derived from mesenchymal stem cells	11/01/2017 20174100 1087 03/01/2018 20184100 0251	13/07/2018 (Patent Published) Approved 13/07/2018 (Patent Published)
8. 9.	Shoba N Surajit P Rachel KarenaMoorthi A Srinivasan N Murugesan R Surajit P Sushmitha S Antara B Ganesan J Murugesan R Marotta F Kurunchi C	A method and development of a nanoscaffold for delivery of agents for stem cell differentiation Method and process of conditioned medium derived from mesenchymal stem cells Development	11/01/2017 20174100 1087 03/01/2018 20184100 0251 11/01/2017	13/07/2018 (Patent Published) Approved 13/07/2018 (Patent Published) 13/07/2018
8. 9. 10.	Shoba N Surajit P Rachel KarenaMoorthi A Srinivasan N Murugesan R Surajit P Sushmitha S Antara B Ganesan J Murugesan R Marotta F Kurunchi C Divya	A method and development of a nanoscaffold for delivery of agents for stem cell differentiation Method and process of conditioned medium derived from mesenchymal stem cells Development method	11/01/2017 20174100 1087 03/01/2018 20184100 0251 11/01/2017 201741001090	13/07/2018 (Patent Published) Approved 13/07/2018 (Patent Published) 13/07/2018 (Patent
8. 9.	Shoba N Surajit P Rachel KarenaMoorthi A Srinivasan N Murugesan R Surajit P Sushmitha S Antara B Ganesan J Murugesan R Marotta F Kurunchi C Divya Murugesan R	A method and development of a nanoscaffold for delivery of agents for stem cell differentiation Method and process of conditioned medium derived from mesenchymal stem cells Development method and process for the	11/01/2017 20174100 1087 03/01/2018 20184100 0251 11/01/2017 201741001090	13/07/2018 (Patent Published) Approved 13/07/2018 (Patent Published) 13/07/2018 (Patent Published)
8. 9.	Shoba N Surajit P Rachel KarenaMoorthi A Srinivasan N Murugesan R Surajit P Sushmitha S Antara B Ganesan J Murugesan R Marotta F Kurunchi C Divya Murugesan R Srinivasan N	A method and development of a nanoscaffold for delivery of agents for stem cell differentiation Method and process of conditioned medium derived from mesenchymal stem cells Development method and process for the detectionof drug	11/01/2017 20174100 1087 03/01/2018 20184100 0251 11/01/2017 201741001090	13/07/2018 (Patent Published) Approved 13/07/2018 (Patent Published) 13/07/2018 (Patent Published)
8. 9. 10.	Shoba N Surajit P Rachel KarenaMoorthi A Srinivasan N Murugesan R Surajit P Sushmitha S Antara B Ganesan J Murugesan R Marotta F Kurunchi C Divya Murugesan R Srinivasan N	A method and development of a nanoscaffold for delivery of agents for stem cell differentiation Method and process of conditioned medium derived from mesenchymal stem cells Development method and process for the detectionof drug resistant water	11/01/2017 20174100 1087 03/01/2018 20184100 0251 11/01/2017 201741001090	13/07/2018 (Patent Published) Approved 13/07/2018 (Patent Published) 13/07/2018 (Patent Published)
8. 9. 10.	Shoba N Surajit P Rachel KarenaMoorthi A Srinivasan N Murugesan R Surajit P Sushmitha S Antara B Ganesan J Murugesan R Marotta F Kurunchi C Divya Murugesan R Srinivasan N	A method and development of a nanoscaffold for delivery of agents for stem cell differentiation Method and process of conditioned medium derived from mesenchymal stem cells Development method and process for the detectionof drug resistant water borne	11/01/2017 20174100 1087 03/01/2018 20184100 0251 11/01/2017 201741001090	13/07/2018 (Patent Published) Approved 13/07/2018 (Patent Published) 13/07/2018 (Patent Published)

11.	Thamaraichelvan A Priyanga Gandhi C AnithaV, Murugesan R	Paper Based Analytical Device for the Detection of Salivary Biomarkers	11/01/2017 20174100 1079	13/07/2018 (Patent Published)
12.	WeslenVedakumari S Jayalakshmi R Murugesan R	Fabrication and use of novel nanoscaffolds	03/01/2018 20184100 0243	05/07/2019 (Patent Published)
13.	Surajit P Sushmitha S Antara B Ganesan J Murugesan R Marotta F	Method and process ofconditioned medium derived from mesenchymal stem cells	03/01/2018 20184100 0251	05/07/2019 (Patent Published)-
14.	Antara B Ganesan J Pathak S Sushmitha S Murugesan R	Methods, effectsand application ofinhibition of Wnt β cateninsignaling pathwayin mesenchymalstem cells	03/01/2018 20184100 0240	05/07/2019 (Patent Published)
15.	Sathyaraj Weslen Vedakumari Shalini Thomas Keerthivasan Iyswariya Raveendran Rubiya Bhoopathy Jayavardhini Ramachandran Murugasen	Nano structured Magentic Sericin - Method and process of fabrication of and uses thereof	01/07/2019 20194102 6203	12/07/2019 (Patent Published)
16.	Saravanan Ramachandran Jeneesha George Gomathy V Jananipriya V ManigandanVenkatesan Ramachandran Murugasen	Extraction and formulation of agar from brown seaweed & use of their anticancer properties	01/07/2019 20194102 6209	12/07/2019 (Patent Published)
17.	Karunanithi Rajamanickam Sharon Jebamalar Joy Sebastian Prakash J Ramachandran Murugasen	Method And Process For Producing Functional Connectivity Index From RS- FMRI For Autism	01/07/2019 20194102 6202	12/07/2019 (Patent Published)

		Spectrum		
		Disorder (ASD)		
		And Uses		
		Thereof		
	SSJ Shiek Fareeth Ahmed	Method and non-		
	Murugesan.R,	invasive process		12/07/2019
18.	Gnanakkumaar Athira	for screening of	01/07/2019	(Patent
	Anirudhan Muumina M	coronary artery	20194102	Published)
	Monisha Ganesh K M	disease using	6208	
		Fourier		
		Transform		
		Infrared		
		Spectroscopy.		
	SSJ ShiekFareeth Ahmed			
	Murugesan.R,	Method and	01/07/2019	12/07/2019
	Gnanakkumaar	process for the	20194102	Patent
19.	Athira Anirudha n Moonalochini M	detection of metal	6204	(Published
-,	Rukshana Parveen T	induced toxicity		
	Sruthi B	based on Fourier		
	Prema B.K	Transform		
	Vidhya P	infrared		
		spectroscopy		
	Shoba Narayan	Novel Injectable	01/05/2010	10/05/2010
	Nikitha Shalom Richard	Biocompatible	01/07/2019	12/07/2019
20	Sangamunra Nenru Soniya Pushparai Subitha	Carriers for	20194102	(Fateni Published)
20.	Palanirai	Cardiac Tissue	0200	r donshed)
	Geeva	Repair and		
	Chokkalingam Meyyappan	Regeneration		
	Ramachandran Murugesan			
	Jyothi Ashok Kumar	Street Maze to	04/0=/2010	10/05/2010
21.	ThotakuraBalaji	assess	01/07/2019	12/07/2019
	C.SwatniPriyadarshini Domochondron	learning and	20194102	(Patent Published)
	Murugesan	memory in	6211	i donshed)
		rodents		
22.	Sathyaraj	Angiogenic	01/07/2019	12/07/2019
	WeslenVedakumari;	nanocomposit	201941026201	(Patent
	RaveendraRubiya;	es for tissue		rublished)
	KeerthivasanIyswariya;	repair and		
	Shalini Thomas;	regeneration		
	VenkatesanDıvya;			
	RamachandraMurugasen			
			1	

23.	Karunanithi Saraswathi Joy Sebastian J Murugesan R	System and Methods to determine structural and functional changes in T1 weighted and functional MRI images in human brain	03/01/2018 20184100 0239	1/11/2019 (Patent Published)
24.	Saravanan R Manigandan V Karthik R Murugesan R	Process, extraction of Low Molecular Weight Sulfated Chitosans (LMWSC) and their application in the treatment of Neurological disease	03/01/2018 20184100 0238	1/11/2019 (Patent Published)-
25	Moorthi A SaiNivethitha Subhaprad ha N Srinivasan N Murugesan R	Method nanoformulation enhancement	03/01/2018 20184100024 4	1/11/2019 (Patent Published)
26	KoyeliGirigoswami Ramachandran Murugesan AgnishwarGirigoswami Keerthana V Jothika S Kavitha D	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	27-11-2020 202041051665	04/12/2020 (Patent Published)
27.	Antara Banerjee Surajit Pathak Ramachandran Murugesan Praveen Kumar Rowlo	A method to induce rapid transdifferentiation of mesenchymal stem cells and its application thereof.	27-11-2020 202041051674	04/12/2020 (Patent Published)
28.	Karunanithi Rajamanickam Prema C Sabitha S Yamini P Ramachandran Murugesan	Method and Process For The Evaluation Of Chemotherapeutic Pseudo-Progression In Brain Tumours	27-11-2020 202041051663	04/12/2020 (Patent Published)

		Using Quantitative Perfusion MRI		
29.	Karunanithi Rajamanickam Prema C Sabitha S Yamini P Ramachandran Murugesan	Method And Process For The Evaluation Of Chemotherapy In Brain Tumours Using Tumour- Segmentation Of MR Images	202041051676 27-11-2020	04/12/2020 (Patent Published)
30.	KoyeliGirigoswami AgnishwarGirigoswami Ramachandran Murugesan Gopikrishna A	Method and process of nanoformulation of liposomal myricetin and uses thereof	202041051698 27-11-2020	04/12/2020 (Patent Published)
31.	Gowtham kumar Subbaraj Murugesan Ramachandran Sindhu Varghese Hikku	System and Fabrication Of A Microbial Streaking Apparatus And Application Thereof	202041051678 27-11-2020	04/12/2020 (Patent Published)
32.	Ramakrishnan. V Iyshwarya B.K Keerthana. P Sivashankar. A Murugesan Ramachandran	Genetic Polymorphisms Associated with Fibroadenoma, Methods of detection and use thereof	202041051672 27-11-2020	11/12/2020 (Patent Published)
33.	Sathyaraj WeslenVedakumari Jayavardhini Bhoopathy Arjun Sathish Kumar Ramachandran Murugesan	Method and preparation of sericin scaffolds reinforced with biomacromolecules and uses there of	202041051689 27-11-2020	11/12/2020 (Patent Published)

34.	Saravanan Ramachandran	Method of	202041051675	11/12/2020
	Vignesh, N Thabitha, A. Karthika, T Ramachandran Murugesan	preparation of water soluble carboxymethyl chitosan gel and uses	27-11-2020	(Patent Published)
		there of		

C. Papers published:

TITLE:

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