

FACULTY PROFILE

Name : Dr. Rajasekaran Aiyalu
Designation : Principal & Professor
Field of specialization : Pharmaceutical Analysis
Total year of experience : Teaching/Research/Industry: 29 Years



Area of research:

1. **Medicinal Chemistry** - Design and development of novel azoles for antimicrobial and anti TB agents
2. **Phytopharmacology** - Development of pharmaceutical formulations for the treatment of Arthritis from medicinal plants used in traditional practice.
3. **Pharmaceutical Analysis** - Development of new analytical techniques for quantification of herbs and allopathic drugs.

Educational Profile:

DEGREE & YEAR	UNIVERSITY	NAME OF THE INSTITUTION
B.Pharmacy (1987)	Annamalai University, Chidambaram	Institute of Pharmaceutical Engineering & Technology, Annamalai University, India
M.Pharmacy (1989)	BITS Pilani, India	BITS Pilani, India
Ph.D (2001)	BITS Pilani, India	BITS Pilani, India

Projects Guided:

UG: 23

PG: 27

Ph.D: 14

Honours / awards / achievements:

AWARDS RECEIVED

1. Received “**PRINCIPAL OF THE YEAR 2017 AWARD**” from APTI on 24th March 2018 at the 22nd National Convention of APTI held at LLOYD institute of management and Technology, Greater Noida, New Delhi.
2. Received cash Rs 10,000 and the “**BEST PAPER AWARD**” (third Prize) **Dr.P.D.SETHI MEMORIAL NATIONAL AWARD 2017** in Pharmaceutical Analysis for the year 2017 for the research paper titled paper: Detection and estimation of well-known free radical

scavengers rutin, quercetin and gallic acid in market herbal anti-inflammatory and anti-arthritis formulations by HPTLC Methods in Scholars Academic Journal of Pharmacy, (SAJP) 2017; 6(5): 221-228.

3. Received the **“BEST PAPER AWARD” Dr.P.D.SETHI ANNUAL AWARD 2011** in Pharmaceutical Analysis for the year 2011 for the research paper titled HPTLC method for estimation of Gallic acid and Rutin in Haritaki-An Ayurvedic formulation”published in International Journal of PharmTech Research 2011, Vol 3(2), 986-999.
4. Received the **“BEST TEACHER AWARD”** from the Minister of Health and Family Welfare Dr.MRK.Pannerselvam in the presence of Dr.Subbaraju, Health Secretary, Vice-Chancellor Dr.Mayilvahanan Natarajan, DME Dr.Kanagasabai, Dean MMC Dr.J.Mohansundaram at a function organized by Tamilnadu Dr.MGR Medical University, Chennai on behalf of Teachers day celebration on 5th Sep 2010.
5. Received **“Research Excellence Award”** from Doctor Thangs products Coimbatore towards the recognition of acadmic research and inductrial collaborative research carried out.
6. **Dr P.D.Sethi Memorial Annual Award-2015. Best Research Papers** on Application of TLC/HPTLC in Pharma, Herbal and Other Chemical Analysis for the research paper” Detetction of flavonoids, phenolic acids and xanthones in commercial herbal formulations by HPTLC techniques” **Res J Pharmacognosy and Phytochemistry. 7(1), jan-Mar 2015, 19-24.**
7. Received NPTEL (National Program on Technology Enhanced learning) ELITE Award for securing 68% marks in online course **“Outcome based pedagogic principles for effective learning” conducted by IIT Karagpur.**
8. Received the License for the manufacture of herbal aerosol spray (developed from DST/DPRP project) from state Licensing authority, Arumbakam, Tamilnadu vide letter K.Dis.No.1146/D(2)/2017 dated 1.2.18 Received on 22.2.18.

RECOGNITIONS

1. IPCA honored me as a scientific service committee member for 68th, 69th and 70th Indian Pharmaceutical congress (Visakhapatnam, Chandigarh and NewDelhi) for 3 years from Dec 2016 to Dec 2018.
2. Siddha Pharmacopoeia committee member for 3 years from 7th April 2017 to 6th April 2019.
3. Member of Board of studies, Sri Ramachandra Institute of Higher Education and Research (Deemed to be University) Porur, Chennai 600116 from 28.2.2019 to 27.2.2022.
4. Academic expert, Board of Studies SRM College of Pharmacy, Kattankulathur, 603203 from July 2018 to June 2021.

5. Member of Board of studies, The Tamil Nadu Dr MGR Medical University, Chennai-32 for two terms from 19.4.2013 to 18.3.2017 and from 8.7.2016 to 7.7.2019.
6. Member of Board of studies, Dayanad Sagar University Bangalore from 28.4.15 to till date.
7. Library e-consortium selection committee member for The Tamil Nadu Dr MGR Medical University, Chennai-32 as per registrar Lr No 79798/2018 dt 3.12.2018
8. Chairperson and evaluator for the scientific sessions of Indian Pharmaceutical Congress.
9. Received certificate of appreciation from Managing trustee of KMCH College of Pharmacy for achieving 100% results in the subjects MPAT (Oct 2013, Oct 2015, Nov 2017) and Pharmaceutical Analysis (Oct 2014, Oct 2015, Oct 2016, Oct 2019) handled for First M.Pharm and Third Pharm D respectively
10. Chaired the oral scientific session of (6th edition) International Conference on Pharmacognosy and Medicinal Plants, held at Amsterdam, Netherlands on 16th April 2018 organized by EuroSciCon.
11. Chaired the oral session of Two days National Seminar on Bioinformatics- A tool for Pharmaceutical Biotechnology and drug discovery from 21st and 22nd June 2018.
12. Chaired the oral and poster session of Two days National Seminar on management of lifestyle disorders on 19th Jan 2019 organized by SKM siddha and ayurveda company (india) private Limited, Erode 638104.
13. Research Advisory committee member-Kovai Medical Center Research and Educational Trust, Coimbatore-from 27th April 2019 onwards.
14. Received Continuance of provisional affiliation orders from Vice-chancellor of the TN Dr MGR Medical University on 3.5.2019.
15. Co-Chairman Scientific services committee, National convention 2017-18, Indian pharmaceutical Association 10 & 11 Feb 2018, Chennai'
16. Expert and Surprise audit member for Pharmacopoeia commission of Indian Medicine and Homopathy (PCIM & H) Project of Dr Arul Amudhan, Melaka Medical College, Manipal University, Manipal. Conducted Audit on 20.05.2019 along with Dr D Chamundeeswari,Prinicpal SRMC, Porur, Chennai.

GRANTS RECEIVED

S.N	Funding agency	Title of the project	Amount	Status
1	Department of Scientific and Industrial Research, DST, New Delhi	Isolation & Documentation of Indigenous & conservation of traditional practices in Theni, Virudhunagar, Sivagangai, Dindugal and Madurai Districts in Tamilnadu.	17.84 Lakhs	Completed 31.3.2008
2	Department of Science and technology, Govt of	Design, development and pharmacological evaluation of novel topical aerosol spray of	48.87 Lakhs	Completed 31.3.2013

	India, New Delhi	anti-arthritic herbs used in traditional practice		
3	AICTE, New Delhi Staff development Programme	Recent advances in Novel Drug Delivery Systems	7 Lakhs	Completed 28.04.2010
4	Defence Research and development Organization (DRDO), Govt of India, New Delhi	Design, development and antiarthritic evaluation of novel topical gel from herbs used in traditional practice	11.789 Lakhs	Completed 17.09.2013
5	M/s Kaleeswari refineries Pvt Ltd, Chennai	Evalaution of hair growth using <i>in vitro</i> human hair follicle organ culture	10 lakhs	Completed 07.09.2012
6	AICTE, New Delhi Staff development Programme	Validation of Analytical methods and procedures	7 Lakhs	Completed 31.06.2012
7	AICTE, New Delhi Research Programme Scheme RPS	Multitargeted important plant derived coumarins: HIV-1 reverse transcriptase and human-CCRS inhibitors as potential Anti-HIV compounds	17.25 Lakhs	Completed 31.03.2015
8	AICTE, New Delhi Research Programme Scheme RPS	Design, development and pharmacological evaluation of novel capsule formulation from plants of Gentianaceae family used in traditional practice for liver disorders	25 Lakhs	Completed 31.3.2016
9	AICTE, New Delhi Research Programme Scheme RPS	Detection and quantification of markers in kabasura kudineer and nilavembu kudineer for antiviral and antibacterial activity by Preparative HPLC and HPTLC techniques	2.91810 lakhs	Ongoing since 10.01.2020

SEMINAR/CONFERENCE/WORKSHOP/HANDS ON TRAINING GRANTS RECEIVED

SN	Funding agency	Title of the seminar	Amount received	Date of the event conducted
1	AICTE, New Delhi	International Seminar on Recent trends in LC/MS	1.5 Lakhs	28.01.2009
2	Council for Scientific and Industrial Research, Newdelhi	Hands on training in herbal drug standardization using HPLC and HPTLC	Rs.50, 000	19.11.2010
3	Indian Council for Medical Research, New Delhi 22.09.2011	Conference on preclinical and clinical challenges in drug discovery	Rs.25,000	10 th & 11 th Nov 2011
4	The Tamilnadu Dr.MGR Medical University, Chennai 24.2.2012	Conference on preclinical and clinical challenges in drug discovery	Rs.15,000	10 th & 11 th Nov 2011
5	Indian Council for Medical Research, New Delhi	Hands on training in Chemoprofiling of herbal drugs using HPLC & HPTLC	Rs.25000	2 nd Feb 2012

6	Indian Council for Medical Research, New Delhi	Emerging trends in herbal research and cancer therapy	Rs.25000	14 th March 2012
7	Department of Science and technology, Govt of India, New Delhi	International travel grant 15.1. 2013	Not availed	18 th Feb to 22 Feb 2013
8	The Tamilnadu Dr.MGR Medical University, Chennai	Two days national level workshop on molecular modeling	Rs.15,000	15 & 16 th Sep 2014
9	The Tamilnadu Dr MGR Medical University, Chennai	One day National level seminar on Innovations in the eradiction of neglected disease: lymphatic filariasis	Rs.15,000	27 Oct 2015
10	The Tamilnadu Dr MGR Medical University, Chennai	National level seminar on Emerging and remerging Aedes borne diseases Zika and Dengue- An update	Rs 15000	26 th July 2016
11	The Tamilnadu Dr MGR Medical University, Chennai	National level seminar on 3Ds Depression Dengue and diabetes-our health our future	Rs 15000	22 nd August 2017
12	The Tamilnadu Dr MGR Medical University, Chennai	Two days National level conf cum workshop on innovations in pharmacy shaping the future	Rs 15000	25 th and 26 th Sep 2017
13	The Tamilnadu Dr MGR Medical University, Chennai	One day National level seminar on emerging and remerging zoonotic viral disease NIPAH-current scenario	Rs 15000	14 th Aug 2018
14	The Tamilnadu Dr MGR Medical University, Chennai	Two days workshop on CADD	Rs 15000	15 th 16 th Dec 2018
15	National commision for women, Newdelhi	Two days national seminar on participation o f women in science an dtechnology- avisonon challenges and prospects	Rs 3,00,000	8 th and 9 th March 2019
16	AICTE, New Delhi	One day International Conference on recent trends in Pharmaceutical Industry: Bridging the Gaps in Pharma Education	Rs 5,00,000	23 July 2019
17	The Tamilnadu Dr MGR Medical University, Chennai	Current Scenario of patient safety vigilance activities in India	Rs 15000	3 Sep 2019

Patents

S.N	Title	Patent number	Application number	Date of filing
1	A process for the preparation of novel 5-[β(10-phenothiazinyl)-1-acyl)-2,3,4-tetrazoles useful as antimicrobial, analgesic and anticonvulsant	IN202803	403/MAS/2002	24-05-2002.
2	Novel compound extracted from natural source and its use as a pharmaceutical excipient	----	2168/CHE/2010	30-07-2010
3	A process for isolation, extraction and purification of Mangiferin from <i>Canscora heteroclita</i> (L)Gilg	----	3185/CHE/2011	16-09-2011
4	Aerosol formulation for treatment of arthritis	----	1864/CHE/2012	11-05-2012

5	A process for extraction, isolation and purification of sweroside from <i>Enicostema axillare</i> (lam.) raynal ssp. littorale (blume) raynal	Provisional specifications	6383/CHE/2014	19-12-2014
6	Novel binders for pharmaceutical formulation	-----	3412/CHE/2014	10-07-2014

Book Chapter

Nutraceuticals: Comprehensive Medicinal Chemistry III, Chapter: 12287, 3rd Edition, 2017, Elsevier publications

Books Authored:

1. Principles and Applications of UV-Visible Spectroscopy
2. Drugs Inspector - Multiple Choice Questions, A Guide for Pharmacy competitive

Examinations

3. Principles and applications of visible, Ultraviolet and Infrared Spectroscopy
4. Principles and applications of Gas and liquid chromatography.

Number of Seminars /symposium /conference attended:

National : 33

International : 11

Number of Publications:

National : 149

International : 91