Bharath Institute of Higher Education and Research

Faculty Profile

Personal Details	
Dr.R.Saravanan	
Professor and HOD	
Faculty of Pharmacy	
Bharath institute of Higher education and Research Selaiyur, Chennai-73	
rssrmcp@gmail.com, saravanan.pharmacy@bharathuniv.ac.in	
Mobile : 9700784826	

Area of Interest	Pharmaceutics, Biotechnology, Molecular Microbiology, NDDS, Nano formulation

Subjects Taught

UG	PG
Pharmaceutical Microbiology	Modern Pharmaceutical Analytical Technique
Pharmaceutical Biotechnology	DDS
Pharmaceutics 1	Cosmetic science
NDDS	
Quality assurance	

Academic Background

Degree	Specialization	University	Class	Month & Year of Passing
B.Pharm	Pharmacy	The TN Dr MGR Medical university, Chennai	I st class with Distinction	October 2003
M.Pharm	Pharmaceutical Biotechnology	The TN Dr MGR Medical university, Chennai	I st class with Distinction	March 2009
Ph.D.	**Pharmaceutical Science**	**Jawaharlal Nehru technological university Kakinada, Kakinada**		Oct 2020

Work Experience as on April-2024

Name of the Institution/Company	Position	From	To
Faculty of Pharmacy Bharath institute of Higher Education and Research	Professor	20.12.21	Till now
QIS College of Pharmacy' Ongole AP	Professor cum HOD	01.06.2009	17.12.2021
Torrent Pharmaceuticals Ahmadabad	Area Manager	01.12.2003	28.07.2007

Total experience	18.8Years	Teaching	15 Years	Research		Administration	3.8 Years

Research Publications

International Journal	National Journal	International Conference	National Conference	R
36	14	5	30	

Recent Publications(Conferences) -Chronological order

Sl.No	Details Enclosed
1	R Saravanan ,P. Chaithanya*, V. Sebastin. Approaches and Advancements In The Improvement Of Quercetin Bioavailability . YUGATO , 2024 ; 76 (1): 224-234. (WOS)
2	R Saravanan, Yerragopu Nagasurekha*, , Kole Shivakumar, Solid Lipid Nanoparticles: A Review. Indo Am. J. P. Sci , 2023, 10 (03), 218-235.
3	R Saravanan, Yerragopu Naga Surekha*, , Yepuri jyothi Swaroop Seetharam. Solid Lipid Nanoparticles As Carriers Of Natural Phenolic Compounds. Indo Am. J. P. Sci , 2023, 10 (03), 236-255
4	Ravindran Saravanan, Muggu S. Bhavani. Beyond Syringes and Pills: Advances in Drug Delivery Systems for Diabetes, IJDDT. 2023; 13(3):1069-1077. (Scopus)
5	Saravanan R, Durga J, Rajaganapathy K, Srinivasan R. Potential of Probiotic Recombinant Microbial Enzymes: Overview of Expression, Purification, Characterization and Its Application in Various Diseases. Journal of Advanced Zoology. 2023; 16; 44(S5): 884-901. (Scopus)
6	Saravanan R and Sasisdhar B. Taguchi design: Optimization *α-amylase* Synthesis by *Bacillus velezensis sp.*.YMER.2023; 22(10), 401- 410. (Scopus)

7	Parimi R, Gupta TR, Pravallika KE, Ravindran S. Analytical Method Development and Validation of Iron, Arsenic, Cadmium, Mercury and Lead Content in Sunset Yellow by Inductively Coupled Plasma Mass Spectrometry (Icp-Ms). Journal of Advanced Zoology. 2023 Nov 24;44(S6):258-64. (Scopus)
8	Saravanan R, Kaliyaperumal R, Ranganathan S, K M, et al. Current Strategy of Monoclonal Antibody: Development, Cloning, Formulation and Drug Delivery. Recent Advances in Drug Delivery and Formulation. 2023 Oct. (PUBMED). DOI: 10.2174/0126673878260516231017165459. PMID: 37909435
9	R. Saravanan, Yerrapogu Naga Surekha*, and Shaik Rahmatha. Review On Use Of Herbal Drugs For Solid Lipid Nanoparticles, World Journal of Pharmacy and Pharmaceutical Sciences, 2023; 12(4):1893-1904.
10	**R.Saravanan1***, R.Srinivasan, A.Shanmugarathinam, R.Karthikeyan4, E.Karthikeyan, M. Vasanth Kumar, N. Kishore Raghul, K. Vijay Aadhi Raj, B.Vasu raja and K.Saifullaha. Chronic Wasting Disease and Their Potential Transmission to Cervids: an Overview. Indian Journal of Natural Sciences.2022; 13(75) , 49592-49596. (Web of Science)
11	Saravanan Ravindran, Shanmugarathinam Alagarsamy, Ruckmani Kandasamy, , Dhayabaran Daniel3, Jeyaseeli Florance Ebinezar, Jayasurya Kathirvelu.Concepts And Applications Of Solid Lipid Nanoparticles. International Journal of Advanced Pharmaceutics, 2023;13(1), 1-9.
12	R.Saravanan, Devi.R, Shakthivel.K, R. Srinivasan, E. Karthikeyan and R. JothiLakshmi N. Jayaramakani, , M.Vasanthkuma, S.Kalaivanan and Sam David.E. Pharmacological Properties of North Indian Herbs of *Abelmoschus moschatus* -A Review. Indian Journal of Natural Sciences.2023; 13(76), 52664- 52670. (Web of Science)
13	Saravanan R, Subahan F. Safety Evaluation of Vaccines In Pregnant Women And Infants. Journal of Pharmaceutical Negative Results. 2022; 13 (S 10) :4987-97. (Scopus)
14	Saravanan R and Bhimana Sasisdhar. , The Microbial Biosynthesis of *α -Amylase*: a Review. Indian Journal of Natural Sciences.2023; 14(77), 55049- 55062. (Web of Science)
15	R Saravanan, K Rajaganapathy , R Srinivasan, M Vasanth Kumar , P Balaji, Ronald Darwin , P Shanmugasundaram , V Chandrakala , M K Vijayalakshmi, S Kalaivanan, R Sathiyasundar. Potential use of Exosomes: A Type of Refined Biological Nano platform, for Delivering Therapeutic Drugs. Eur. Chem. Bull. 2023,12 (Special issue 6), 4986 –

	5015. (Scopus)
16	Saravanan R, Durga Prasad Kondeti, Sivakumar Vijaya Raghavalu, A.Sujana. The Novel Approachments on Pharmacoeconomic for Indian Pharmacy, Indian Journal of Natural Sciences.2023; 14(77), 54693- 54700. (Web of Science)
17	Saravanan Ravindhran, Geetha Jayaprakasha, Jayaprakash Shanmugamb, S.K Senthil kumar Kulanthaivelb, Ramana Ramasamya, Ramesh Kumar Praveen Kumara, Ramesh Kumar Saravanana, Ravi Kumar Saravanana, Reena Ravia. Screening and Assessment Of Phytochemicals From Aegle Marmelos Against The NS5B Of The Zika Virus Using Molecular Docking. Journal of Namibian Studies, 35 S1 (2023): 3309-3321. (Scopus)
18	**Saravanan Ravindhran, Geetha Jayaprakash, Jayaprakash Shanmugam, S.K. Senthil kumar Kulanthaivel, Saravanan Govindaraj Sri vishanth Dhandapani, Srijayapriya Annadurai, Subhasri Sathiyendiran, Subiksha Babu, Sudhandhira devi Saravanan.** In silico identification of potent inhibitors of Piper betle and Laurus nobilis phytoconstituents on Mycobacterium tuberculosis via molecular docking. Pak Heart J 2023:56(02), 1543-1553. (Scopus)
19	**R.Saravanan1***, R.Srinivasan, A.Shanmugarathinam, R.Karthikeyan4, E.Karthikeyan, M. Vasanth Kumar, N. Kishore Raghul, K. Vijay Aadhi Raj, B.Vasu raja and K.Saifullaha. Chronic Wasting Disease and Their Potential Transmission to Cervids: an Overview. Indian Journal of Natural Sciences.2022; 13(75) , 49592-49596. (Web of Science)
20	**R. Saravanan**,* A. Shanmugarathinam, K. Vengata Naga Priyanka & (2020) Nipah: A Deadly Zoonotic Disease. J Pharm Health Sci Res. 2020; 1(1), 1-13.
21	**Ravindran Saravanan**, Alagarsamy Shanmugarathinam*, Mallikarjun Vasam,Review on Fast Dissolving Tablets Technology and Superdisintegrants. JIAPS. 2019; 4 (3), 07-15.
22	**Ravindran Saravanan**, Alagarsamy Shanmugarathinam*, Mallikarjun Vasam. An Insight Into Buccal Drug Delivery System JIAPS. 2019. 4 (1); 07-15.
23	**R. Saravanan,** Shanmugarathinam A, Mallikarjun V. Mucoadhesive buccal tablets of rabeprazole sodium formulation and *in-vitro* evaluation. Int J Ind Herbs Drugs. 2017; 2(6), 24-29.
24	**R. Saravanan,** Shanmugarathinam A, Mallikarjun V*,.Phytocompounds used as excipients in mucoadhesive systems, an outline on buccal tablets and films. Int J Ind Herbs Drugs. 2017; 2(3), 44-.48.
25	**R. Saravanan**, D.Dhachinamoorthi, **K. Prasanna Kumari.** * Formulate And Evaluate Oral Disintegrating Tablets Of Mirtazapine. WJPMR. 2019; 5(9), 263-273.

26	**R. Saravanan,*** D.Dhachinamoorthi, Y. Sudhakar. Expression of cholera toxin B Antigen (CT-B) epitope in transgenic edible banana plant *(Robusta sp)*. Int.J.Res.Pharm.Sci. 2017; 8(3), 405-413.
27	**R. Saravanan,*** D.Dhachinamoorthi, Y. Sudhakar. Propagation and establishment of high yielding banana plants (robusta sp) from shoot tip by plant tissue culture method. International Journal of Current Research, 2017; 9(10), 58446-58453.
28	**R. Saravanan,*** D.Dhachinamoorthi, Y. Sudhakar. Exploring the importance of invitro culture in large Scale cultivation of high yielding banana plants. Int J Pharma Bio Sci, 2017; 8(4), (P) 193-199
29	**R. Saravanan,*** D.Dhachinamoorthi, Y. Sudhakar. Genetic Fusion and Conformation of Cholera Toxin B Gene With P CAMBIA 1301 In *Agrobacterium tumefaciens* (LBA4404). Ejbps, 2017; 4(10), 606-613.
30	**R. Saravanan*,** D. Haneesha, CH. Gowtham and A. Hanuma Sravani. Formulation and Evaluation of Nanoparticles Loaded With Lamivudine Ejbps, 2017; 4(9), 611-616.
31	**R. Saravanan**, K. Senthil Kumar*, D. Dachinamoorthi, Y.Sudhakar and K.Ashok. Formulation and Evaluation of Controlled Release Occuserts of Levofloxacin Hydrochloride. IJIPSR. 2017; 05(01), 13-26.
32	**Saravanan. R***, Senthilkumar. K, Dhachinamoorthi. D, Haneesha. D. The impacts and biodegradation studies of *Bacillus subtilis*(MTCC1427) on tannery effluents. Journal of Pharmacy Research. 2017;11(2),116-119.
33	**Saravanan R.***, Dhachinamoorthi D. and Ravikumar K.Development of Formulation and Invitro Evaluation of EtodolacFlotting Tablets for Gastro Retinetive Drug Delivery.2017; 6(4), 1079-1092.
34	**Saravanan. R***, Senthilkumar. K., Dhachinamoorthi. D., Uma Mahesh. P, Vamsi Krishna. G,VenkataPavani.K. Evaluation of Wound Healing and Anti-Microbial Activity of the *ArgemonemexicanaLinn (Papavraceae).*Research J. Pharm. and Tech. 2017; 10(3), 852-857.
35	**Saravanan.R.***, Senthilkumar. K., Dhachinamoorthi. D., Sri Vaishnavi.O., Srujanalakshmi. B.V., Anusha Rani. K., Chinnamai. P. and Salamullakhan. D.The Influence and Biodegradation activity of *Pseudomonas aeruginosa*(MTCC 1934) on Alcohol and Chemical Industry Waste Water. Elixir Pollution. 2016; 97, 42418-42420
36	**R. Saravanan**., Senthilkumar K., Dhachinamoorthi D., Anandpal T*.,Aparna Ch. Antibiotic activity of various extracts of *Abutilon indicumlinn*against various pathogens. World journal of pharmacy and pharmaceutical sciences. 2016; Vol 5, Issue 4, 1358-

	1364.
37	**R Saravanan,**G Renuga*, K Seenikani, A BabuThandapani. Expression of GSH-1 Gene for the Production of Glutathione in *Escherichia coli*. Inventi Rapid: Pharm Biotech &Microbio. 2013; Issue 3, 1-7.
38	**R. Saravanan**, D. Dhachinamoorthi, K. Senthilkumar, M. Srilakshmi*, T. Divya Sri. Antibacterial Activity of *Euphorbia hirta* Extracts. IJRAP, 2012; 3(3), 439-441.
39	**Saravanan, R.*,**Dhachinamoorthi D., Senthil Kumar K., Vinodkumar S., Nikhileshbabu M. andNeeraj J.Effects of UV-B Enhanced Solar Radiation on *Trigonella foenum-graecum.* Research J. Pharm. and Tech.2012; 5(3), 328-332.
40	**Saravanan R.*,**Senthilkumar K., Dhachinamoorthi D., HeenaNeha S.D., Benarjee K.,Narendra K., Prudhvi Ch.Analysis of Nutrients and Minerals Content in Commercially Purchased*Agaricus bisporus.* Research J. Pharm. and Tech.2013; 6(7), 765-768.
41	**R.Saravanan**, K.Senthil Kumar*, D.Dhachinamoorthi, UdayKumar Gopal, V.Shanmugam. Microemulsions as Carrier for Novel Drug Delivery: A Review. 2011; 10(2),37-45.
42	**R. Saravanan**,K. Senthil Kumar*, D. Dachinamoorthi, and K. Ashok Design And Evaluation Of Fast Dissolving Tablet of Metoprolol Tartrate.IJPSR. 2011; Vol. 2(8), 2162-2167.
43	**Saravanan.R**., G. Renuga* , Murali Krishnan, A. BabuThandapani.Construction of yeast expression vector containingELT-B gene for high level of heatlabile enterotoxin-B subunit (LT-B). IRJB. 2011; 2(7), 130-135.
44	**Saravanan R.*,**Dhachinamoorthi D., Renuga G. and Senthilkumar K.Production of L-Asparaginase from *Pectobacteriumcarotovorum*(MTCC1428) and *Bacillus circulans*(MTCC 490). Research J. Pharm. and Tech. 2011; 4(8): 1323-1327.
45	**Saravanan,R***, Dhachinamoorthi. D, Senthilkumar. K and Thamizhvanan. K. Antimicrobial activity of various extracts from various parts of*Calophylluminophyllum*L. Journal of Applied Pharmaceutical Science. 2011; 01 (03): 102-106.
46	**Saravanan, R**., Senthil Kumar, K*. D. Dhachinamoorthi, S. Chellaram and G. Thirumurugan. Rapidly Dissolving Tablet. Research J. Pharm. and Tech. 2010; 3(4): 1-7.
47	**Saravanan R***, Dhachinamoorthi D, SanjithNath M., Senthilkumar K.Antimicrobial

	Properties of Passiflora foetida L. against Various Clinical and Phytopathogens.Inventi Rapid: Ethnopharmacology.2010; 1(2): 1-3.
48	**Saravanan. R.*,**Senthilkumar. K., Dhachinamoorthi. D., Chellaram.S.,Mallikarjuna Reddy. Virosomes: As a Versatile Carrier for Delivery System. Journal of Pharmacy Research. 2010; 3(6): 1-7.
49	**Saravanan.R.,*** G. Renuga A. BabuThandapani and K.R. Arumugam. Expression of Cholera toxin B subunit in Banana callus culture. J. Pharm. Sci. & Res.2010; 2(1): 26-33.
50	**Saravanan, R**., Senthil Kumar, K*. D. Dhachinamoorthi, S. Chellaram and G. Thirumurugan. Rapidly Dissolving Tablet. Research J. Pharm. and Tech. 2010; 3(4): 1-7.

Memberships in Professional Bodies

Sl.No	Name of the Professional Body
1	Tamil Nadu State Pharmacy council Member

Conferences and Presentation

Sl.No	Details
1	Participated and presented a paper in 55TH INDIAN PHARMACEUTICAL CONGRESS 2003 held at Chennai.
2	Participated and presented a paper in TWO DAYS STATE LEVEL BIOINFORMATICS WORKSHOP (AUGUST, 2008) at KG College of arts and science, Coimbatore**.**
3	Participated and presented a paper 'Edible Vaccine' in UGC SPONCERED NATIONAL SEMINAR on **Innovative Research and Development in Pharmaceutical Science-Current Scenario and New horizons"** (9th and 10th Nov 2012) at Acharya Nagurjuna University, Guntur.
4	Participated and presented a paper in UGC SPONCERED NATIONAL WORKSHOP on **Trends in pharmaceutical research and role of software applications** (28 and 29 March 2016) at Acharya Nagurjuna University, Guntur.
5	Participated an International conference and presented a paper, '**Agrobacterium mediated gene transfer of CT B antigen in transgenic callus culture of Banana sp**.'

	(23-25, Nov 2016) world congress on Drug discovery and development At **Indian Institute of Science, Bengaluru**.
6	Participated and presented a paper on Edible banana Vaccine containing CT B gene in 68th INDIAN PHARMACEUTICAL CONGRESS 2016 held at Andhra University, Visakhapatnam (AP)
7	Participated and present a paper in PHARMARIA a Three Days International conference at Amaravathi, AP in AUG 11 to 13, 2017.
8	Participated and presented a paper , ' Role and importance of hormones in banana tissue culture' during 6th indo African conference on " Advances and challenges in pharmaceutical science" (31 Aug 2017) at Acharya Nagurjuna University, Guntur
9	Participated and presented a paper, '**Production of transgenic edible Banana plant containing CT B** Antigen.' (9th and 10th , Feb 2018) in IPA sponsored National Seminar on Recent trends and Importance of green pharmacy at MAM College of Pharmacy, Guntur.
10	Participated and presented a paper, '**Plant based edible vaccine against cholera**.' (21 and 22, Feb 2020) in 24th annual convention and National conference of society of Pharmacognosy 2020 at VJ's college of pharmacy, Rajamahendravaram (AP).

Book Published

R. Saravanan,* D.Dhachinamoorthi, Ch.MM.Prasada Rao. A Hand Book of Practical Microbiology. 2019, Lambert Academic Publishing.Germany. ISBN 978-620-0-22006-6.

Dr. R. Saravanan,* BIOPROCESS TECHNOLOGY. 2022, Lambert Academic Publishing. Germany. 978-613-9-45583-6.

Dr. R. Saravanan,* PHARMACOGNOSY - I. LAB MANUAL. 2022, Lambert Academic Publishing. Germany. ISBN 978-620-4-95658-9

Dr. R. Saravanan,* Dr.W.Helen. HUMAN ANATOMY & PHYSIOLOGY – II LAB MANUAL. 2023, Lambert Academic Publishing. Germany. ISBN 978-620-4-956596

Dr. R. Saravanan, Dr.E.Karthikeyan, Dr R.Srinivasan. Experimental pharmaceutical science. 2022, Lambert Academic Publishing. Germany. ISBN 978-61-39447916.

Dr. R. Saravanan, M Mounica, D Anushya. Herbal plants -Immunomodulators. 2023,

Lambert Academic Publishing. Germany. ISBN 978-62-07462476

PATENT

DR.R.SARAVANAN , DR. SHANMUGARATHINAM ALAGARSAMY, DR. R. KARTHIKEYAN, DR. V. MALLIKARJUN, DR. DEEPA M K, DR. M. VANI, DR. K. KARTHICK
Title: A NOVEL TREATMENT OF CERVICAL CANCER USING COMBINATION OF CIPLATIN, METHOTREXATE AND PEMBROLIZUMAB. Application number - 202341065567, Date - 29/09/23

DR.R.SARAVANAN , DR. DAU LAL BOHRA, DR SREE JANARDHANAN V, DR GANNA ANITHA, MR.SHINE SUDEV,

Title: DESIGN, SYNTHESIS AND BIOLOGICALEVALUATION OF ANTIPROSTRATE CANCERAGENT, Application number - 202311042529, Date - 26/06/23.

Saravanan.R., Durgaprasad K, Munish kumar, Dhachinamoorthi D, Shanmugarathinam A, Jayaprakash S. 2022/03/09, Application number, 202241012718

Title: BREAST AND OVARIAN CANCER DETECTION USING URINE DIAGNOSIS Applied date: 2022/03/09 Published Date: 2022/04/01

Saravanan.R., Senthil kumar.K., Panneerselvam. T and Vedha hari B.N.,

2018/07/23, Application number, 201841027495

Title: 6-SUBSTITUTED BENZYLIDENE-3-NITRO-6,7,8,9-TETRAHYDRO-5H-BENZO[7]ANNULEN-5-ONE.

Applied date: 23/07/2018 Published Date: 24/01/2020.

DESIGN PATENT

DR.R.Saravanan, Shanmugarathinam Alagarsamy , Jalaiah Marri , Kannan Senthil Kumar, Dr. K. Rajaganapathy
Title: AUTOMATIC INSULIN WAERABLE OMNIPOD SYSTEM TO SHOW INSULIN RATE
Application No: 389276-001, CBR No: 208076, Date:29.06.2023

DR.R.Saravanan, Dr. Naidu Narapusetty Mrs. Venkata Jhansipriya Marabathuni Mrs. Sk. Meharaj M. Vasanth Kumar

Title: DISINFECTION CHAMBER FOR COVID 19

Application No: 389050-001, CBR No: 207933, Date:26.06.2023 Publihed: 23/08/2023

DR.R.Saravanan, Dr. D. Sakthivel , P. Jeyaprabha , R. Devi , Dr. D. Kumarasamyraja , V. Mahalekshmi

Title: INJECTION MOLDING MACHINE

Application No: 389052-001, CBR No: 207935, Date:26.06.2023

DR. R. Saravanan and co

AUTOMATIC BOTTLE FEEDING LIQUID PUMPING CAP TIGHTING PHARMACEUTICAL MACHINE

Application No: 408332-001**, CBR No:** 202918**, Date:** 22/02/2024

Research Project

AICTE-RPS Project – Principal Investigator- 24.8 lac

1-7009524198: Molecular biology and novel drug delivery system - Plant based edible Banana vaccine against cholera

Roles and Responsibilities

Sl.No	Details
1	Controller of Exam section for Pharmacy in QIS College of Pharmacy, Ongole
2	In charge for Research and Development in QIS College of Pharmacy, Ongole
3	In charge For Industrial Training
4	Purchase in charge for Chemicals and Glassware

Awards Received

Sl.No	Details
1	Best Researcher Award 2016 - World congress on Drug discovery and development At **Indian Institute of Science, Bengaluru**.
2	Best Paper Presentation Award **Production of transgenic edible Banana plant containing CT B** Antigen.' (9^{th} and 10^{th} , Feb 2018) in IPA sponsored National Seminar on Recent

	trends and Importance of green pharmacy at MAM College of Pharmacy, Guntur.
3	Best Teacher Award- 2019, QIS College of Pharmacy, Ongole
4	Best faculty Award 2022-The Tamilnadu all Registered Pharmacist Welfare Association
5	Best Researcher Award 2023-The Tamilnadu all Registered Pharmacist Welfare Association

TECHNICAL SKILLS
➢ Electrophoresis (AGE and SDS-PAGE),
➢ Cloning, Expression and purification of proteins
➢ PCR
➢ Western Blotting
➢ UV visible spectro photometry
➢ Transformation
➢ Fermentation
➢ Chromatographic techniques
➢ Plant tissue culture work
➢ ELISA

MY RESEARCH ID LINKS
1. https://scholar.google.com/citations?user=YZH3g_YAAAAJ&hl=en
2. https://www.scopus.com/authid/detail.uri?authorId=57204947391
3. Web of Science Researcher ID: HJY-6770-2023
4. https://orcid.org/ 0009-0006-7113-8754