

Faculty Profile

Name: **Abimanyu Sugumaran**

Designation: **Assistant Professor**

Department/Centre: **Pharmaceutical Sciences**

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Educational Qualification: **M. Pharm (Pharmaceutics)**, Bharathidasan Institute of Technology, Bharathidasan University, Tiruchirappalli (2008); **Ph.D in Pharmaceutical Technology**, Anna University (2015).

Areas of Interest: **Nanodispersion, Pharmaceutical Formulations, Drug Targeting, Nano Drug Delivery, Nano Biomaterials.**

Work Experience: [In Chronological order with the recent one at the last.]

Name of the Organization	Designation	Period		Nature of Post (permanent/temporary/Adhoc/contractual etc.)
		From	To	
Tablets (India) ltd, Chennai. TamilNadu	Officer R&D	05/05/2008	24/02/2009	Permanent
SRM College of Pharmacy, SRM Institute of Science and Technology, Kattankulathur. TamilNadu	Professor	06/01/2016	31/10/2022	Permanent
Assam University, Silchar	Assistant Professor	03/11/2022	Continuing	Permanent

Awards and Honours (if any): [Maximum upto 5]

Award Details	Awarding Agency	Year	Remarks
Junior Research Fellow	DST, New Delhi	2009	---

Projects: [In chronological order with the recent one at last. Mention shall be made if the project is ongoing or completed]

Project Title	Awarding Agency	Period	Amount Sanctioned	Ongoing/Completed

Consultancy/International Collaboration: : [In chronological order with the recent one at last.]

Details	Year	Remarks (If any)

Publications in Peer Reviewed Journals/Book Chapters (Maximum 5)

Authors	Title of the Paper	Name of the Journal/Book	Journal/Book Details	ISSN/ISBN
Abimanyu Sugumaran* , Janani Sadhasivam, Pratiksha Gawas, Venkatramaiah Nutralapati, Rajesh Pandian, Sathish Kumar Perumal	Curcumin conjugated dextran coated Fe ₃ O ₄ Nanoparticles: Cytotoxic effect on lung cancer cell line A549	Materials Science and Engineering : B (Elsevier; IF 3.407)	2022.286: 116047. DOI:10.1016/j.mseb.2022.116047	0921-5107
Gouranga Dutta, Sivakumar Manickam, Abimanyu Sugumaran*	Stimuli-responsive hybrid metal nanocomposite - A promising technology for effective anticancer therapy	International Journal of Pharmaceutics (Elsevier; IF 6.51)	2022 Aug 25;624:121966. doi: 10.1016/j.ijpharm.2022.121966.	0378-5173
Abimanyu Sugumaran , Rajesh Pandiyan, Palanivel Kandasamy, Mariya Gover Antoniraj, Irfan Navabshan, Balasubramanian Sakthivel, Selvakumar Dharmaraj, Santhosh Kumar Chinnaiyan, Veeramuthu Ashokkumar, Chawalit	Marine biome-derived secondary metabolites, a class of promising antineoplastic agents: A systematic review on their classification, mechanism of action and future	Science of The Total Environment (Elsevier; IF 10.753)	2022 Aug 25;836:155445. doi: 10.1016/j.scitotenv.2022.155445.	0048-9697

Ngamcharussrivi chai	perspectives .			
Santhosh Kumar Chinnaiyan, Rajesh Pandiyan, Subramanian Natesan, Srikanth Chindam, Ajay Kumar Gouti, Abimanyu Sugumaran*	Fabrication of basil oil Nanoemulsi on loaded gellan gum hydrogel – evaluation of its antibacterial and anti- biofilm potential	Journal of Drug Delivery Science and Technology (Elsevier; IF 5.062)	2022; 68: 103129. DOI: 10.1016/j.jddst.2022.103129 .	1773-2247
Rajesh Pandiyan, Sumathi C Samiappan, Abimanyu Sugumaran, Subpiramaniyam Sivakumar	Stomach- affecting intestinal parasites as a precursor model of Pheretima posthuma treated with anthelmintic drug from Dodonaea viscosa Linn.	Green Processing and Synthesis (De Gruyter; IF 3.97)	2022; 11: 492–502. DOI: 10.1515/gps-2022-0029	2191-9550

Books Authored/Edited Books (Maximum 5)

Authors	Title of the Book	ISBN	Published Details	Authored/Edited
B. Premkumar, Ali Zarrabi, Venkatesan Perumal, Sohail Akther, Abimanyu Sugumaran, Pranav Kumar Prabhakar and Ponnurengam Malliappan Sivakumar.	Antimicrobial Resistance Opportunities and Challenges.	978-1-53617- 943-9.	Nova Publishers - New York, USA. 2020.	Authored
Saurabh S, Sivakumar PM, Perumal V, Khosravi A,	Integrative Nanomedicine for New Therapies.	9783030362591	Springer Nature Switzerland AG. 2020.	Authored

Abimanyu S, Prabhawathi V.				
Subramanian N, Chandra Sekar P, Abimanyu S, Sharavanan S.P, Nandagopal M, Vijula Rani D, Jamuna Rani N.	Nano Biomaterials	978-93-82563- 37-2	Bloomsbury Publishing Pvt Ltd, New Delhi, 2012.	Authored
Chandra Sekar P, Subramanian N, Abimanyu S, Venkateshwaran K.	Nano Biomaterials	978-93-82563- 37-2	Bloomsbury Publishing Pvt Ltd, New Delhi, 2012.	Authored
Subramanian. N, Syamasri G, Moulik. S.P, Augustin F, Chandrasekar. P, Abimanyu S.	Biomedical applications of nanostructured materials.	023-033-201-3	Macmillan publishers India Ltd, India. 2010.	Authored

Peer Reviewed Publications in Proceedings of National/International Conference/Workshop/Symposium (Maximum 5)

Authors	Title of the Paper	Name of the Program and Organizer	Publisher Details	ISBN/ISSN
Subramanian N, Abimanyu S , Vinoth J, Chandrasekar P	Biodegradable Chitosan Magnetic Nanoparticle Carriers for Sub-Cellular Targeting Delivery of Artesunate for Efficient Treatment of Breast Cancer.	8 th International Conference on the Scientific and Clinical Applications of Magnetic Carriers. Edited by U. Hafeli, W. Schutt and M. Zborowski	AIP Conference Proceedings	978-0-7354-0866-1

Patents (If any):

Patent Details	Awarding Agency	Year	Remarks (If any)
Subramanian. N, Abimanyu. S , Chandra Sekar. P. Method and composition for solubilization of hydrophobic compounds.	The Patent Office, Govt. of India. Indian Patent No: 298063	2018	Granted on:26/06/2018.

Details of the Ph.D degree awardee (Under the Supervision of the Faculty):

Name of the Scholar	Title of the Thesis	Year of Award	Remarks (If any)
Mr. Chanduluru Hemanth Kumar	Sustainable Analytical Method Development Validation of Selective Cardiovascular Drugs by UV Spectrophotometry and AQBD Based LC Techniques for Tablets and in Spiked Human Plasma	2022	Awarding University: SRM Institute of Science and Technology, Kattankulathur
Mrs. Kanaka Parvathi Kannaiah	Environmentally Benign Method Development and Validation of Creams and Ointments using UV Spectrophotometry and AQBD Based LC Methods	2022	Awarding University: SRM Institute of Science and Technology, Kattankulathur