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Education Qualification

Course	Organization	Year of award
B.Pharm.	E.G.S. Pillay College of Pharmacy, Nagapattinam, The Tamilnadu Dr. M.G.R Medical University, Chennai-32, INDIA.	2007
M.Pharm. (Pharmaceutics)	College of Pharmacy, Madurai Medical College, Madurai-20, The Tamilnadu Dr. M.G.R Medical University, Chennai-32, INDIA.	2010
Ph.D. (Pharmaceutics)	Indian Institute of Technology (Banaras Hindu University), Varanasi – 221 005, INDIA.	2016

Professional Experience (In Years)

Teaching Experience: 4 Years

Research Experience: 3 Years

Areas of Research

- ❖ **Cancer Nano-medicine**
- ❖ **Molecular Pharmaceutics**
- ❖ **Cancer Stem Cells Targeting**
- ❖ **Multifunctional Nanoparticles**
- ❖ **Targeted Liposomes and other vesicular drug delivery systems**

Research/Consultancy Grants

Title of Projects	Funding Agency	Duration	Total grant	Role (PI/CO-PI)
-	-	-	-	-

Publications

International Publications

1. **M.R. Vijayakumar**, R. Kosuru, S.K. Singh, C.B. Prasad, G. Narayan, M.S. Muthu, S. Singh, Resveratrol loaded PLGA: D- α -tocopheryl polyethylene glycol 1000 succinate blend nanoparticles for brain cancer therapy, **RSC Advances**, 6 (2016) 74254-74268. **(Impact Factor: 3.119)**
2. **M.R. Vijayakumar**, K.Y. Vajanthri, C.K. Balavigneswaran, S.K. Mahto, N. Mishra, M.S. Muthu, S. Singh, Pharmacokinetics, biodistribution, in vitro cytotoxicity and biocompatibility of Vitamin E TPGS coated trans resveratrol liposomes, **Colloids and Surfaces B: Biointerfaces**, 145 (2016) 479-491. **(Impact Factor: 4.389)**
3. **M.R. Vijayakumar**, L. Kumari, K.K. Patel, P.R. Vuddanda, K.Y. Vajanthri, S.K. Mahto, S. Singh, Intravenous administration of trans-resveratrol-loaded TPGS-coated solid lipid nanoparticles for prolonged systemic circulation, passive brain targeting and improved in vitro cytotoxicity against C6 glioma cell lines, **RSC Advances**, 6 (2016) 50336-50348. **(Impact Factor: 3.119)**
4. **M.R. Vijayakumar**, R. Kosuru, P.R. Vuddanda, S.K. Singh, S. Singh, Trans resveratrol loaded DSPE PEG 2000 coated liposomes: An evidence for prolonged systemic circulation and passive brain targeting, **Journal of Drug Delivery Science and Technology**, 33 (2016) 125-135. **(Impact Factor: 2.734)**
5. **M.R. Vijayakumar**, M.S. Muthu, S. Singh, Copolymers of poly(lactic acid) and d- α -tocopheryl polyethylene glycol 1000 succinate-based nanomedicines: versatile multifunctional platforms for cancer diagnosis and therapy, **Expert Opinion on Drug Delivery**, 10 (2013) 529-543. **(Impact Factor: 4.838)**
6. L. Maurya, **M.R. Vijaykumar**, H. Dewangan, S. Singh, Lipid based aqueous core nanocapsules (ACNs) for encapsulating hydrophilic Vinorelbine bitartrate: Preparation, optimization, characterization and in vitro safety assessment for intravenous administration, **Current Drug Delivery**, 15(9), (2018) 1284-1293. **(Impact Factor: 1.582)**

7. L. Maurya, S. Singh*, **M.R. Vijaykumar**, G. Narayan, Vitamin E TPGS emulsified vinorelbine bitartrate loaded solid lipid nanoparticles (SLN): formulation development, optimization and in vitro characterization, **Current Drug Delivery**, 15(8), (2018) 1135-1145. **Impact Factor: 1.582)**
8. C.K. Balavigneswaran, S.K. Mahto, A.K. Mahanta, R. Singh, **M.R. Vijaykumar**, B. Ray, N. Misra, Cell proliferation influenced by matrix compliance of gelatin grafted poly(D,L-Lactide) three dimensional scaffolds, **Colloids and Surfaces B: Biointerfaces** 166 (2018) 170–178. **(Impact Factor: 4.389)**
9. K.P. Meena, **M.R. Vijaykumar**, P.S. Dwibedy, Catechin-loaded Eudragit microparticles for the management of diabetes: formulation, characterization and in vivo evaluation of antidiabetic efficacy, **Journal of Microencapsulation**, 34 (2017) 342-350. **(Impact Factor: 2.287)**
- 10 Sonali, R.P. Singh, N. Singh, G. Sharma, **M.R. Vijaykumar**, B. Koch, S. Singh, U. Singh, D. Dash, B.L. Pandey, M.S. Muthu, Transferrin liposomes of docetaxel for brain-targeted cancer applications: formulation and brain theranostics, **Drug delivery**, 23 (2016) 1261-1271. **(Impact Factor: 4.902)**
- 11 Sonali, P. Agrawal, R.P. Singh, C.V. Rajesh, S. Singh, **M.R. Vijaykumar**, B.L. Pandey, M.S. Muthu, Transferrin receptor-targeted vitamin E TPGS micelles for brain cancer therapy: preparation, characterization and brain distribution in rats, **Drug delivery**, 23 (2016) 1788-1798. **(Impact Factor: 4.902)**
- 12 P.R. Vuddanda, **M.R. Vijaykumar**, M. Yaspal, S. Singh, Investigations on Agglomeration and Haemocompatibility of Vitamin E TPGS Surface Modified Berberine Chloride Nanoparticles, **BioMed research international**, 2014 (2014) 11. **(Impact Factor: 2.276)**
- 13 B. Singh, P.R. Vuddanda, M.R. Vijaykumar, P.S. Saxena, S. Singh, Cefuroxime axetil loaded solid lipid nanoparticles for enhanced activity against S. aureus biofilm, **Colloids and surfaces. B, Biointerfaces**, 121 (2014) 92-98. **(Impact Factor: 4.389)**

National Publications
<p>1. M. Abraham Lingan, A. Abdul Hassan Sathali, M.R. Vijayakumar, A. Gokila. (2011) Formulation and evaluation of topical drug delivery system containing clobetasol propionate niosomes. Scientific Reviews and Chemical Communications, 1(1), 7-17. (Impact Factor: 0.774)</p> <p>2. M.R. Vijayakumar, A. Abdul Hassan Sathali, K. Arun. (2010) Formulation and evaluation of diclofenac potassium ethosomes. International Journal of Pharmacy and Pharmaceutical Sciences. 2(4), 7-17. (Impact Factor: 2.029)</p>
Book Chapters
-
Authored Books
-
Edited Books
-

Patents

	Inventors	Title and Award/Application no.
Awarded	-	-
Published	Sanjay Singh, Vijayakumar M.R.	Composition of resveratrol loaded hybrid nanoparticles and a method of preparation thereof, Intellectual Property India, Published in 'The Patent Office Journal', No. 41/2019, Date: 11/10/2019, Reference No. 201811012870 A. (Filed in 2018)
Filed	-	-

Research Supervision

	Completed	Ongoing
PG/M.Phil	-	-

Ph.D	-	-
Post-Doctoral	-	-

Honors, Recognition and Awards

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Membership of Professional Bodies

Tamil Nadu Pharmacy Council, Chennai, INDIA.

Seminar/Conference/Symposia /Workshops Organised

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Countries Visited

* **United Kingdom**

* **France**

Invited Lectures/Talks/Chair/Co-Chair in Seminar/Conference/Symposia /Workshops

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Additional Information (If Any)

Paper Presentations (Oral/Poster)

International

1. ICPSE 2015: International Conference on Pharmaceutical Science and Engineering 23- 24 January, 2015, Hotel Holiday Inn, **Paris, France.**
2. ICMBPS 2015: International Conference on Medical, Biological and Pharmaceutical Sciences, 19-20 January, 2015, Hotel Holiday Inn, **London, United Kingdom.**
3. 4th International Conference on Stem Cells and Cancer (ICSCC-2012): Proliferation, Differentiation and Apoptosis, 19-22 October, 2013, Durbar Hall, Haffkine Institute, Parel, **Mumbai - 400012, India.**
4. 13th International symposium of Controlled Release Society, Indian Chapter on “Advances in technology and business potential of new drug delivery systems”, 22-23 January, 2013, J.W.Marriott Hotels Mumbai, Santacruz, **Mumbai, India.**

5. 3rd International Conference on Stem Cells and Cancer (ICSCC-2012): Proliferation, Differentiation and Apoptosis. 27-30 October, 2012, Dr Ram Manohar Lohia Hospital, **New Delhi, India.**
6. 3rd World Congress on “Bioavailability and Bioequivalence” Pharmaceutical R & D Summit. 26-28 March, 2012, Marriott Hotel, **Hyderabad, India.**
7. International Conference on Drug Delivery – 2010. 29-30 January, 2010, PSG College of Pharmacy, **Coimbatore, India.**

National

1. The National Academy of Sciences, India, 82nd Annual Session and National Symposium on “Nano-science & Technology for Mankind”. 29, November-1 December, 2012, Banaras Hindu University, **Varanasi, India.**
2. 15th Annual National Convention of Association of Pharmaceutical Teachers of India on “Quality in Pharma Education: Role of Teacher, Technology and Management” 2-3 November, 2010, Shilpakala Vedika, **Hyderabad, India.**