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Research interest: development of biodegradable polymeric nanofibers, nanogels, nanoparticles, nanocomposite scaffolds

Dr. Jayakumar R. is a Professor at the Center for Nanosciences and Molecular Medicine (ACNSMM), Amrita Vishwa Vidyapeetham, Kochi-682041, specializing in the area of Biopolymeric Nanomaterials. Dr. R. Jayakumar joined ACNSMM in November 2007. He received his Ph. D. in Polymer Chemistry from Anna University, Chennai, India (2002). He has over 215 Journal publications, 8 book chapters and 10 patents to his credit. His publications have been cited more than 10200 times with h-index-53. In addition, he has also edited and published 4 books. He has received the “Best Paper Award” from Journal of Materials Science Materials in Medicine (Springer) and IET Nanobiotechnology Journal. Recently Dr. Jayakumar received “[Best Faculty Researcher Award](#)” from Indian Chitin and Chitosan Society (ICCS) and “[MRSI Medal-2017](#)” from Materials Research Society of India (MRSI), India for his significant contribution towards biomaterials research.

Dr. Jayakumar's research laboratory at Amrita Center for Nanosciences and Molecular Medicine is mainly interested in the development of biodegradable polymeric nanofibers, nanogels, nanoparticles, nanocomposite scaffolds and injectable hydrogels for tissue engineering (Adipose, Bone, Cartilage, Periodontal, Skin and Vascular), Drug Delivery (antimicrobial, protein & peptide) and wound dressing applications. Dr. Jayakumar has been consistently recognized for his academic excellence and research. As a postgraduate, he ranked third in M. Sc. from Bharathidasan University. He was awarded a Senior Research fellowship from the Council of Scientific and Industrial Research (CSIR). Later he was awarded the University Postdoctoral Fellowship from Chonbuk National University (2002-2003), South Korea. In Portugal, he was awarded FCT Postdoctoral Fellowship from the Government of Portugal (2003-2005). In addition, he was also awarded the prestigious JSPS Postdoctoral Fellowship (2005-2007) from the Japan Society for the Promotion of Science (JSPS), Japan. He has also received "Young Investigator Fellowship-2008" from Department of Science and Technology (DST), India. He is a reviewer and editorial board member of many international journals. He has also completed more than 15 funded research projects. He has research collaborations in USA, Japan, South Korea, Portugal & Taiwan.