

Dr. A. Moorthi

Assistant Professor

Department of Medical Bionanotechnology
Chettinad Academy of Research & Education
(CARE)



Email: moorthiibms@gmail.com

Contact No.: 9791127111

Qualifications:

Ph.D.: 2014, Department of Biotechnology, School of Bioengineering, SRM University, Chennai 603203, India.

Research Interests:

Stem cells and Regenerative Medicine, Nano Biotechnology, Cancer and Molecular Biology, Toxicology.

Post-Doc / Work Experience:

2014 – Present: Assistant Professor, Dept. of Medical Bionanotechnology, Chettinad Academy of Research & Education, Kelambakkam, Chennai 603 103, INDIA.

Feb 2016-July 2016: Post Doctoral Fellow, Tissue Engineering and Drug Delivery Laboratory, Department of Bio-Medical Engineering, National Yang Ming University, Taiwan, R.O.C

Summary of Research:

No. of Publications	15	Citations	790	h-index	12
---------------------	----	-----------	-----	---------	----

Publications:

1. **Moorthi A**, Vimalraj S, Avani C, Zhiming H, Partridge NC, Selvamurugan N. 2013. Expression of microRNA-30c and its target genes in human osteoblastic cells by nano-bioglass ceramic-treatment. International Journal of Biological Macromolecules 56:181-185. (Impact factor: 2.596).

2. Pradeep Kumar J, Lakshmi L, Jyothsna V, Prashanth Balaji DR, Saravanan S, **Moorthi A**, Selvamurugan N. 2013. Synthesis and Characterization of Diopside particles and their Suitability along with Chitosan Matrix for Bone Tissue Engineering *In vitro* and *In vivo*. Journal of Biomedical Nanotechnology. 10:970-981 (**Impact factor: 5.256**).
3. Saravanan S, Sameera DK, **Moorthi A**, Selvamurugan N. 2013. Chitosan Scaffolds containing Chicken Feather Keratin Nanoparticles for Bone Tissue Engineering. International Journal of Biological Macromolecules. 10:970-981. (**Impact factor: 2.596**).
4. Sowjanya JA, Singh J, Mohita T, Saravanan S, **Moorthi A**, Srinivasan N, Selvamurugan N. 2013. Biocomposite scaffolds containing chitosan/alginate/nano-silica for bone tissue engineering. Colloids and surface B: Biointerface. 109:294-300. (**Impact factor: 3.456**).
5. Niranjana R, Koushik C, Saravanan S, **Moorthi A**, Vairamani M, Selvamurugan N. 2013. A novel injectable temperature-sensitive zinc doped chitosan/-glycerophosphate hydrogel for bone tissue engineering. International Journal of Biological Macromolecules. 2:1-8. (**Impact factor: 2.596**).
6. **Moorthi A**, Saravanan S, Srinivasan N, Partridge NC, Zhu J, Qin L, N. Selvamurugan. 2012. Synthesis, Characterization and Biological Action of Nano-Bioglass Ceramic Particles for Bone Formation. Journal of Biomaterials and Tissue Engineering. 54:24-29.
7. Saravanan S, Mohita T, **Moorthi A**, Selvamurugan N. 2012. Biocomposites Containing Chitosan for Bone Tissue Engineering. Marine Biomaterials. 27:529-538. (**Book Chapter, Taylor and Francis group**).
8. Tripathi A, Saravanan S, Pattnaik S, **Moorthi A**, Partridge NC, Selvamurugan N. 2012. Bio-composite scaffolds containing chitosan/nano-hydroxyapatite/nano-copper-zinc for bone tissue engineering. International Journal of Biological Macromolecules. 1:294-9. (**Impact factor: 2.596**).
9. Swetha M, Sahithi K, **Moorthi A**, Saranya N, Saravanan S, Ramasamy K, Srinivasan N, Selvamurugan N. 2012. Synthesis, Characterization, and Antimicrobial Activity of nano-Hydroxyapatite-Zinc for Bone Tissue Engineering Applications. Journal of Nanoscience and Nanotechnology. 12:167-172. (**Impact factor: 1.563**).

10. Pattnaik S, Nethala S, Tripathi A, Saravanan S, **Moorthi A**, Selvamurugan N. 2011. Chitosan scaffolds containing silicon dioxide and zirconia nano particles for bone tissue engineering. *International Journal of Biological Macromolecules*. 5:1167-72. **(Impact factor: 2.596)**.
11. Saranya N, Saravanan S, **Moorthi A**, Ramyakrishna B, Selvamurugan N. 2011. Enhanced osteoblast adhesion on polymeric nano-scaffolds for bone tissue engineering. *Journal of Biomedical Nanotechnology*. 7:238-44 **(Impact factor: 5.256)**.
12. Saravanan S, Nethala S, Pattnaik S, Tripathi A, **Moorthi A**, Selvamurugan N. 2011. Preparation, characterization and antimicrobial activity of a bio-composite scaffold containing chitosan/nano-hydroxyapatite/nano-silver for bone tissue engineering. *International Journal of Biological Macromolecules*. 2:188-93. **(Impact factor: 2.596)**.
13. Saranya N, **Moorthi A**, Saravanan S, Devi MP, Selvamurugan N. 2011. Chitosan and its derivatives for gene delivery. *International Journal of Biological Macromolecules*. 48:234-8. **(Impact factor: 2.596)**
14. Sahithi K, Swetha M, Prabakaran M, **Moorthi A**, Saranya N, Ramasamy K, Srinivasan N, Partridge NC, Selvamurugan N. 2010. Synthesis and characterization of nanoscale-hydroxyapatite-copper for antimicrobial activity towards bone tissue engineering applications. *Journal of Biomedical Nanotechnology*. 4:333-9. **(Impact factor: 5.256)**.
15. Swetha M, Sahithi K, **Moorthi A**, Srinivasan N, Ramasamy K, Selvamurugan N. 2010. Biocomposites containing natural polymers and hydroxyapatite for bone tissue engineering. *International Journal of Biological Macromolecules*. 1:1-4. **(Impact factor: 2.596)**.