

List of Publications

Research Articles (Peer-Reviewed)

1. **Balavigneswaran C K**, Mahto SK, Mahanta A K, Singh R, Vijayakumar M R, Ray B, Maiti P, Misra N. Cell proliferation influenced by mechanical property of the three dimensional scaffolds. *Colloids and Surfaces B: Biointerfaces*, 2018, 166, 170–178
2. Sharma R, Kapusetti G, Bhong S Y, Roy P, Singh S K, Singh S, **Balavigneswaran C K**, Ramesh K, Ray B, Maiti P, Misra N. Osteoconductive Amine Functionalized Graphene-Poly(methylmethacrylate) Bone Cement Composite with Controlled Exothermic Polymerization. *Bioconjugate Chem*, 2017, 28 (9), pp 2254–2265.
3. **Balavigneswaran C K**, Mahto SK, Bano S, Prabhakar A, Mitra K, Rao V, Ganguli M, Ray B, Maiti P, Misra N. Tailored Chemical Properties of 4 arm star shaped poly(D,L-Lactide) as Cell Adhesive Three-Dimensional Scaffolds. *Bioconjugate Chem*. 2017, 28, 1236 –1250
4. M.R. Vijayakumar, K.V. Yellappa, **Balavigneswaran C.K.**, S.K. Mahto, N. Misra, M.S. Muthu, S. Singh. Pharmacokinetics, biodistribution, invitro cytotoxicity and biocompatibility of Vitamin E TPGS coated trans resveratrol liposomes. *Journal of colloidal and surfacesB: biointerface*, 2016, 145, 479-491
5. **Balavigneswaran C K**, Mahto SK, Sellamuthu S, Chandrasekaran VK, Singh S K, Ray B, Misra N. Inhibition of Protein aggregation by Gelatin grafted Poly(D,L-Lactide): An *In vitro* Case Study, 2018 (**Under revision**)
6. **Balavigneswaran C K**, Ramya V, Gaurav K, Pankaj P, Sairam K, Patnaik R, Kadalmani B, Ray B, Mahto SK, Misra N. Silica release from hybrid gelatin grafted star shaped Poly(D,L-Lactide) affects the vascularization. 2018 (**Communicated**)
7. Varshney N, Sahi A K, Vajanthiri K Y, Poddar S, **Balavigneswaran C K**, Rao V, Prabhakar A, Mahto S K. Fabricating Three-dimensional Macroporous Poly(dimethylsiloxane) Scaffolds for Skin Tissue Regeneration, 2018 (**Communicated**)

8. **Balavigneswaran C K**, Ramya V, Govinda K, Kadalmani B, Ray B, Mahto SK, Misra N. Hybrid silica-gelatin grafted poly(D,L-Lactide) as Bioprinting ink. (**Under preparation**).

Book Chapters

1. **Balavigneswaran C.K**, Misra N. Polymeric hydrogels for controlled drug delivery. *Polymeric Gels Characterization, Properties and Biomedical Applications*, **Elsevier** (Pre-Production)
2. **Balavigneswaran C.K**, Ramesh K, Misra N. Versatility of Poly(lactic Acid) and Modified Poly(lactic Acid) for BioEngineering applications. *NanoBioMedicine* (Series ISBN: 1- 626990-50-6), **CRC press, USA**. (Accepted)

Conferences

1. Tissue Engineering and Regenerative Medicine International Society – European chapter (TERMIS-EU17), Davos, Switzerland, June 26-30, 2017.
2. 6th Asian Biomaterials Congress (ABMC6), Thiruvananthapuram, India, October 25-27, 2017.

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