

## DOCTOR OF PHILOSOPHY

**Name:** BHARAT KUMAR REDDY SANAPALLI

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**Educational Qualification:** M. Pharm (Pharmacology)

**Year of Registration:** 2018

**Project Supervisors:** Dr. Karri. V V S Narayana Reddy

### Research Abstract

The pathogenesis of diabetic wound healing is a multifactorial, decreased expression of growth factors, rapid matrix degradation due to increased levels of inflammatory cytokines and chronic infections. This altered molecular environment of diabetic wound develops a proinflammatory state that may cause delay in wound to heal. Hence, in present research it is proposed to formulate a peptide encapsulated in nanoparticles loaded in collagen–chitosan acellular dermal matrix which will have multifactorial target activities for potential tissue regeneration in diabetic wounds.

### Fellowships

1. Indian Council of Medical Research- Senior Research Fellow (45/15/2019-Nan/BMS)
2. JSS Academy of Higher Education & Research- Junior Research Fellow (REG/DIR(R)/JSSURF/29(1)/2010-11)

### Publications

1. Natarajan J, **Sanapalli BKR**, Bano M, Singh SK, Gulati M, Karri VV. Nanostructured Lipid Carriers of Pioglitazone Loaded Collagen/Chitosan Composite Scaffold for Diabetic Wound Healing. *Advances in Wound Care*. 2019 Mar 21. **(IF: 5.2)**
2. **Sanapalli BKR**, Kannan E, Balasubramanian S, Natarajan J, Baruah UK, Karri VV. Pluronic lecithin organogel of 5-aminosalicylic acid for wound healing. *Drug development and industrial pharmacy*. 2018 Oct 3;44(10):1650-8. **(IF: 2.3)**
3. Rishitha T, **Sanapalli BKR**, Karri V V S R. Drugs Eluting Three Dimension Scaffolds for the Treatment of Diabetic Wounds. *Indian Journal of Novel Drug Delivery*. 2018, 10(4), 150-158
4. De A, Venkatesh N, Senthil M, **Sanapalli BKR**, Shanmugham R, Karri VV. Smart niosomes of temozolomide for enhancement of brain targeting. *Nanobiomedicine*. 2018 Oct 10; 5:1849543518805355.
5. Karri V V S R, Raman S K, Wadhvani A, Patel V, **Sanapalli BKR** and Malayandi R. In vitro antifungal activity of a novel allylamine antifungal nanoemulsion gel. *J Nanosci Curr Res* 2018, 3:1.

### Awards

1. **First prize** in Poster Presentation competition in 5th International Diabetes and Endocrine Conference at Le Meridien, Coimbatore-2019.
2. **First prize** in E-Poster Presentation competition in National Conference on Pharmaceutical Sciences 4.0 - Advancing the future of Pharma at JSS College of Pharmacy, Mysuru-2019.
3. Awarded with **Gold Medal** for Meritorious Academic Performance in B. Pharm from Narayana College of Pharmacy in 2014.
4. **First prize** in Oral Presentation competition in National seminar on innovations in pharmaceutical sciences conducted at St. Annas college of Pharmacy, Chirala-2013.
5. **First prize** in Oral Presentation competition in National seminar on educating future pharmacists for patient-centric and research conducted at St. Amuel College of pharmacy, Markapuram-2013.
6. **First prize** in Oral Presentation competition in National seminar on Pharmacy Education and Research-Present and Future Challenges conducted at Narayana Pharmacy College Nellore-2013.

**Way Forward:** I'd like to be seen as postdoctoral fellow with deep expertise in the field of acute and chronic wound pharmacology. I strive to achieve excellence in research field and work in a reputed institution which support my skills and encouraging research environment.