

# Dr. Sai Sateesh Sagiri

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## Current position:

**Postdoctoral fellow** (2015-till date) under the supervision of **Dr. George John** at CDI, The City College of New York, CUNY, New York, USA.

## Education:

**Ph.D** (2010-15) in the Department of Biotechnology and Medical Engineering at NIT, Rourkela, Odisha, India.

**M. Tech.** in Biotechnology (2007-09)  
Vellore Institute of Technology University, Vellore, T.N, India.

**B. Tech** in Biotechnology (2003-07)  
Bapatla Engineering College, ANU, Guntur, A.P, India.

## Academic achievements:

To my credit I got an All India Rank of 346 (96.88 percentile) in GATE-2007.

## Research interests

In a nut shell, my research mainly focuses on investigating the soft materials for food, pharmaceutical, and cosmetic applications. The investigation includes design, characterization, and application of low molecular weight structuring agents in water, organic solvents, and vegetable oils. The scale up of the as-synthesized materials to bridge the gap between laboratory research and industrial needs is also part of interests.

## Academic work:

My Ph.D thesis entitled “**Studies on the synthesis and characterization of encapsulated organogels for controlled drug delivery applications**” under the supervision of **Dr. Kunal Pal** and **Dr. Piyali Basak (Jadavpur University)**.

I have done my M.Tech project, entitled “**Studies to identify the redox partners of WhiB1/Rv3219 of *Mycobacterium tuberculosis* H37Rv**” under the supervision of **Dr. Pushpa Agarwal** and **Dr. G. Jayaraman** at Institute of Microbial Technology (IMTECH) (CSIR), Chandigarh, India.

My B.Tech project was “**Studies on the production of streptokinase with reduced antigenicity**” under the supervision of **Dr. Krishnakanth Pulicherla** at Bapatla Engineering College, Bapatla, A.P, India.

### Some of the important publications:

1. **S. S. Sagiri**, A. Anis and K. Pal\* Encapsulation of vegetable oils: Strategies, preparation methods and applications, *Polymer-Plastics Technology and Engineering*, **2016**, 55(3), pp. 291-311.
2. **S. S. Sagiri**, V. K. Singh, K. Pal\*, I. Banerjee and Piyali Basak, Stearic acid based oleogels: A study on the molecular, thermal and mechanical properties, *Materials Science and Engineering C*. **2015**, 48, pp. 688-699.
3. **S. S. Sagiri**, V. K. Singh, S. Kulanthaivel, K. Pal\*, I. Banerjee, Krishna Pramanik and Piyali Basak, Gelatin hydrogel and stearate organogel based bigels: Physico-chemical characterization and application as drug delivery vehicle, *Journal of Mechanical behavior of Biomedical materials*. **2015**, 43, pp. 1-17.
4. **S. S. Sagiri**, V.K. Singh, K. Pal\*, I. Banerjee, Krishna Pramanik and Piyali Basak, Core-shell-type organogel-alginate hybrid microparticles: A controlled delivery vehicle, submitted to *Chemical Engineering Journal*. **2015**, 264, pp. 134-145.
5. **S. S. Sagiri**, V. Sharma, K. Pal\*, and Piyali Basak, Mango butter emulsion gels as cocoa butter equivalents: Physical, thermal and mechanical analyses submitted to *Journal of Agricultural and Food Chemistry*. **2014** 62(47), pp. 11357-11368.
6. **S. S. Sagiri**, Kunal Pal\*, Piyali Basak, Usman Ali Rana, Imran Shakir, and Arfat Anis, Encapsulation of Sorbitan Ester-Based Organogels in Alginate Microparticles. *AAPS pharmaSciTec*, **2014**, 15(5), pp. 1197-1208.
7. **S. S. Sagiri**, Kunal Pal\*, Piyali Basak, Encapsulation of animal wax-based organogels in alginate microparticles. *Journal of Applied Polymer Science*, **2014**, 131(20), pp. 49010.
8. **S. S. Sagiri**, B. Behera, C. Bhattacharya, K. Pal\*, I. Banerjee, R. Rafanan and D. Rousseau, Organogels as matrices for controlled drug delivery: A review on the current state, *Soft Materials*, **2014**, 12(1), pp. 47-72.
9. **S. S. Sagiri**, B. Behera, K. Pal\* and P. Basak, Lanolin based organogels as a matrix for topical drug delivery, *Journal of Applied Polymer Science*, **2013**, 128(6), pp. 3831-3839.

**For full details of other research publications, please visit**

<https://scholar.google.com/citations?user=Vut4FX8AAAAJ&hl=en>

[https://www.researchgate.net/profile/Sai\\_Sagiri](https://www.researchgate.net/profile/Sai_Sagiri)

## Book chapters

1. V. K. Singh, B. Behera, **S. S. Sagiri**, K. Pal, Arfat Anis, and Mrinal K. Bhattacharya, Book chapter entitled **“Organogels in Controlled Drug delivery”** in Handbook of Encapsulation and Controlled Release, In Press. **To be published by: Taylor and Francis Group, USA.**
2. V.K. Singh, **S. S. Sagiri**, K. Pramanik, A. Anis, S.S. Ray, I. Banerjee, and K. Pal Book chapter entitled **“Vegetable Oil–Based Formulations for Controlled Drug Delivery”** in Handbook of Encapsulation and Controlled Release, **In Press. To be published by: Taylor and Francis Group, USA.**
3. **S. S. Sagiri**, P. Pattnaik, K. Pal\*, S. S. Ray, Book chapter titled **“Drug Delivery, Iontophoretic”** in “Encyclopedia of Biomedical Polymers and Polymeric Biomaterials”, **In Press. To be published by: Taylor and Francis Group, USA.**
4. K. Pal\*, **S. S. Sagiri**, V. K. Singh, B. Behera, I. Banerjee, K. Pramanik, Book chapter titled **“Natural Polymers in Tissue Engineering: Methods of scaffold fabrication and Applications”** in “Encyclopedia of Biomedical Polymers and Polymeric Biomaterials”, **In Press. To be published by: Taylor and Francis Group, USA.**
5. K. Pal\*, **S. S. Sagiri**, B. Behera, S. S. Ray, K. Pramanik, Book chapter titled **“Biopolymeric Microparticles in Medicine and Regenerative Medicine: Design and Applications”** in “Encyclopedia of Biomedical Polymers and Polymeric Biomaterials”, **In Press. To be published by: Taylor and Francis Group, USA.**
6. B. Behera, **S. S. Sagiri**, T. Sudheep, V. Patil, V. Varghese, B. Biswal, K. Pal\*, S. Roy, S. S. Ray and B. Nayak; Book chapter titled **“Drug Delivery Methodologies”** in “Modern Biotechnology and its Applications”, 2013, Volume 2, pp. 611-647. **Published by: New India Publishing Agency, India (ISBN: 978-93-81450-83-3).**