

# CURRICULUM VITAE

## Dr. Satish Kumar Talloj



### Ph.D. Chemistry (Sep-2019)

National Chiao Tung University  
(NCTU), Hsinchu, Taiwan-30010.  
(Top 3<sup>rd</sup> university in Taiwan)

### Permanent Address: -

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### Current Address: -

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*“Science is all about Curiosity driven learning. Unless you are Curious, you will never find Science Exiting.....”*

## Career Objective

To establish my future career at the junction of synthetic chemistry/drug discovery and utilize my technical, strategic and leadership abilities to diagnose and solve scientific problems.

A highly motivated, well-travelled and creative team player with 6 years experienced in Synthetic Organic Chemistry in CRO industry.

## Professional Working Experience

### ➤ Researcher (Jul 2020-Present)

Design of chemical route and synthesis of organic molecules  
**Industrial Technology Research Institute (ITRI), Taiwan**

### ➤ Post-doctoral Researcher (Oct-2019- Jul-2020)

Synthesis of Macrocyclic compounds, Fluorescent dye materials for glucose sensing applications, Peptides (SPPS), Functionalization of Thiophene compounds (EDOT)  
**Ministry of Science and Technology (MOST), NCTU, Taiwan.**

### ➤ Scientist-II (2013-2015, ID No: USP-180)

Synthetic Organic Chemistry Department,  
Synthesized API and their Impurity profiling  
**United States Pharmacopeia (USP), Hyderabad, India.**

### ➤ Senior Research Associate-II (2011-2013, ID No: SS0646)

Drug Discovery/ Medicinal Chemistry,  
**Biocon Bristol Myers Squibb's Research Centre (BBRC), Syngene International Limited, Bengaluru, India.**

### ➤ Research Scientist (2009-2011, ID No: AS056)

Synthetic Organic Chemistry Department,  
**Anthem Bio-Sciences Pvt. Ltd (A CRO based company) Bengaluru, India.**

## Academic Profile

### ➤ Ph. D Chemistry (2015-19)

National Chiao Tung University (NCTU), Taiwan

### ➤ Masters in Organic Chemistry (2006-08)

Kakatiya University, Warangal, Telangana, India

## Professional Achievements

- Received best employee award (**Dec 2013**) for synthesizing challenging new impurities by novel synthetic route from **CEO - Ronald T. Piervincenzi, USP**
- Bagged R&D Star Award for Out of Box thinking and being good team member in BBRC (**2012**)
- Bagged R&D Star Award for proposing viable chemical route to synthesize novel intermediate to synthesize two targets in BBRC and other award for the fast scale up (**250 g**) of new macrocyclic compound which has 25-32 synthetic steps.

## Academic Achievements

- Outstanding NCTU Student Award for the years **2016, 2017, 2018** and **2019**
- Received paper award for publishing an article in ACS Applied Materials and Interfaces (I.F. **8.7**)
- Presented a paper at IURMS-**2017** conference, held at Taipei, Taiwan. (Title: “Supramolecular Hydrogels with Glucosamine Capped Nanotubular Network for Human Mesenchymal Cell Therapy”)
- Secured State 5<sup>th</sup> rank in M.Sc. (Organic Chemistry) entrance conducted by Kakatiya University, Warangal, Andhra Pradesh.

## Research Assets

- Design, plan and conduct the experiments skillfully with rigorous analytical characterizations by using various spectroscopic techniques like **1D and 2D NMR, <sup>13</sup>C NMR, LC-MS, Circular dichroism (CD), UV-Vis, FT-IR, HPLC, Combiflash or Biotage column**
- Hands on experience in Solid phase peptide syntheses (**SPPS**) and its purification up to 10 peptides
- Supramolecular Self-assembly of peptides in water and hydrogels for tissue engineering applications
- Downstream Process Optimizations, troubleshoot based on strong technical grounding in organic chemistry
- Proposing of new synthetic routes with cost effective, user friendly and synthetically viable schemes
- Experienced in performing Mc-Murray coupling, Grignard, Wittig and Heck reactions, Suzuki, Buchwald, Sonogashira coupling reactions, one pot reactions, Knoevenagel condensations, etc.
- Literature search using SciFinder, Reaxys, Beilstein, Patent search database for the designed target molecules, proposal writings, raw material quotations.
- Capable of handling collaborative/independent work and handled a team of **2-4 members** in a group involving different chemistries. (**Trained many Juniors at industrial and the Ph.D. students at the university level**)

## Competencies

- Open to **new and creative ideas, proactive, problem solving, idea generation skills**
- Eagerness and curious for **research and development with good presentation skills**
- **Adherence to EHS and keeping lab notes up to date.** Follow QMS ISO 9001, ISO 17025
- Work effectively with diverse group of people, a good team player
- **Positive attitude Ambitious, hardworking, committed to excellence and quality.**

## Publications

- **Ph.D. Thesis entitled as: -**

*Synthesis and Characterizations of Functional  $\pi$ - Capped Materials in Hydrogels*

**Published two article sin American Chemical Society and Royal Society of Chemistry journals**

1. *ACS Appl. Mater. Interfaces* **2018**, 10, 15079. (**I.F: 8.7**)
2. *Journal of Materials Chemistry B*, **2020**, 8, 7483-749 (**I.F: 5.3**)
3. *3 more paper are going to be published in near future with different chemistries*

## Declaration

I hereby to declare that the information furnished above is true to the best of my knowledge and belief.

**Sincerely,**  
*Dr. Satish Kumar Talloj*

**References:** Will be provided upon request