

Shrihari Parashram Sanap, Ph.D.

Assistant Professor of Chemistry,
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A/P Nimgaon-Sinnar,
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District – Nashik,
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CAREER INTERESTS

- Teaching and Research in Forensic Chemistry and Toxicology
- Synthetic organic chemistry and synthetic carbohydrate chemistry
- Asymmetric organocatalysis
- Synthesis and process chemistry of bioactive molecules such as NCE and API's etc.
- Development of Synthetic Methodologies
- Biological evaluation of synthesized compounds

EDUCATION

- **Ph. D. (April 2014)** Chemistry, (Garware Research Centre, Department of Chemistry, Savitribai Phule Pune University, (Formerly University of Pune), Pune-411 007, INDIA)
- **M. Sc. (July 2007)** Organic Chemistry, (H.P.T. Arts and R.Y.K. Science College, Nashik-422 005, Affiliated to Savitribai Phule Pune University, (Formerly University of Pune), Pune, INDIA) with 69.85%.
- **B. Sc. (July 2005):** Chemistry, Physics, Botany and Zoology, (G.M.D. Arts, B.W. Commerce and Science College, Sinnar-422 103. Dist. - Nashik, Affiliated to Savitribai Phule Pune University, (Formerly University of Pune), Pune, INDIA) with 79.33%.

TEACHING EXPERIENCE

- **Assistant Professor** [Institute of Forensic Science, Mumbai] June 2019 to Present
- **Assistant Professor** [Institute of Forensic Science, Nagpur] September 2015 to May 2019

Research Scientist [Cadila Healthcare Ltd. Ahmedabad (Oncology)] September 2014 to August 2015

Area of Research: Synthesis and R&D of process development for generic anticancer drugs.

Doctor of Philosophy [Ph.D. (Organic Chemistry)] *February 2008 to April 2014*

Research Supervisor: Prof. Dilip D. Dhavale, F.A.Sc., F.N.A.Sc.,

Distinguished Professor of Organic Chemistry,

Department of Chemistry,

Savitribai Phule Pune University, (Formerly University of Pune), Pune (INDIA)

Ph.D. Thesis Title: Conidine Iminosugars from D-Glucose, their Conformational and Glycosidase Inhibitory Studies and Proline Derived Ion-tagged Organocatalysts in Asymmetric Aldol and Mannich Reactions

Area of Research: Carbohydrate Chemistry, Chiron Approach towards Natural Products and Analogues, Organocatalysis in Asymmetric Synthesis, Synthetic Organic Chemistry.

Exchange Ph.D. student [University of Bologna, Italy] *May 2010 to November 2011*

Research Supervisor: Prof. Claudio Trombini

Full Professor of Organic Chemistry

Department of Chemistry, "G. Ciamician"

University of Bologna, Bologna (ITALY)

Area of Research: Design, synthesis and application of small organic molecules as catalysts in asymmetric reactions such as Aldol reaction, Mannich reaction, Michael addition, Henry reaction, domino reactions, etc.

Research Chemist [TCG Life Sciences Ltd., Pune] June 2007 to January 2008

Area of Research: Synthesis of heterocyclic compounds, amino acid coupling reactions and pharmaceutically active compounds depending upon requirement of the client. (Contract Research Organization)

PROFESSIONAL SKILLS

- Supervised 2-3 M. Sc. students each year during their research project in the laboratory.
- Hard working, excellent communication and presentation skill, ability to work in a team as well as an individual.
- Proficient in designing novel routes and multi step synthesis of complex target molecules
- Expertise in interpretation of spectral and analytical data from UV, IR, NMR, HPLC, LC-MS, GC-MS, CHNS, etc. to elucidate or assign the chemical structure.

- **General Techniques:** Proficiency in modern laboratory techniques such as isolation, purification by flash and gravity column chromatography, experienced in handling air and moisture sensitive organic reactions scaling from milligrams to multigrams.
- **Instruments:** Good knowledge of operating instruments like NMR (1D and 2D), Reverse Phase, Chiral and Preparative HPLC, Combiflash, FT-IR, GC-MS, LC-MS, UV, Polarimeter etc.
- **Computer Programs and Database Searching:** Expertise in computer softwares such as Chemdraw, MestreNova, MS-office, Sci-Finder Scholar, Scopus, Reaxys, Cross Fire Commander, Spresi-Web, etc.

AWARDS / SCHOLARSHIPS / FELLOWSHIPS:

- **Erasmus Mundus Exchange Ph.D. Student** at *University of Bologna, Italy*. EMECW India4EU programme funded by European Union. (From May 2010 to November 2011)
- **CSIR-UGC-NET (June 2007):** Qualified '*National Eligibility Test*' in Chemical Sciences, Jointly Conducted by Council of Scientific and Industrial Research (CSIR) and University Grant Commission (UGC), India.
- **Junior and Senior Research Fellowships** (21st January 2008 to 30th April 2014) awarded by CSIR, India.

LIST OF PUBLICATIONS:

1. **Org. Biomol. Chem.**, **2010**, *8*, 3307-3315 (*Synthesis, computational study and glycosidase inhibitory activity of polyhydroxylated conidine alkaloids-a bicyclic iminosugar*) **Sanap, S. P.**; Ghosh, S.; Jabgunde, A. M.; Pinjari, R. V.; Gejji, S. P.; Singh, S.; Chopade, B. A.; Dhavale, D. D.
2. **Adv. Synth. Catal.**, **2011**, *353*, 3234-3240 (*A new robust and efficient ion-tagged proline catalyst carrying an amide spacer for the asymmetric aldol reaction*) Montroni, E.; **Sanap, S. P.**; Lombardo, M.; Quintavalla, A.; Trombini, C.; Dhavale, D. D.
3. **Synthesis**, **2012**, *44*, 2277-2286 (*Studies toward oxyacetamide-linked RNA analogues: Synthesis and conformation of modified dinucleoside*) Jabgunde, A. M.; Yeole, S. D.; **Sanap, S. P.**; Gadre, S. R.; Dhavale, D. D.
4. **Adv. Synth. Catal.**, **2013**, *355*, 938-946 (*A New Henry/Michael/retro-Henry/Henry Domino Sequence promoted by Bifunctional Organocatalysts*) Quintavalla, A.; Lombardo, M.; **Sanap, S. P.**; Trombini, C.