

## Sayan Dutta Gupta

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**Research Interests:** Computer aided drug design (Docking, 3D QSAR and molecular dynamic simulation), synthesis and biological evaluation of anticancer, antibacterial and antifungal agents.

### Education:

1. **PhD [Pursuing from August, 2009]:** Jawaharlal Nehru Technological University, Hyderabad, India.
2. **M. Pharmacy [2004-2006]:** School of Pharmaceutical Sciences, Rajiv Gandhi Technological University, Bhopal, Madhyapradesh, India.
3. **B. Pharmacy [1999-2003]:** Vivekananda Institute of Pharmacy, Rajiv Gandhi University of Health Sciences, Bengaluru, India

### PROFESSIONAL EXPERIENCE

#### INDUSTRIAL EXPERIENCE: 1year 6 months

Employed as a Research Associate in Jubilant Chemsys Ltd., the medicinal chemistry wing of Jubilant Organosys Ltd in research and development of new drugs from May22, 2006-Nov08, 2007.

#### ACADEMIC EXPERIENCE: 6 Years 6 months

- Employed as Lecturer in KIET School of Pharmacy, Ghaziabad from 12<sup>th</sup> Nov., 2007-11<sup>th</sup> Feb, 2008
- Presently working as Senior Assistant Professor in Gokaraju Rangaraju College of Pharmacy, ( **NBA Accredited**) Hyderabad from 12<sup>th</sup> Feb, 2008 till date
- Visiting faculty of **BITS-Pilani, Dr. Reddy's Laboratory** BSc. (Pharmaceutical chemistry) program.
- Faculty for induction program of **Dr. Reddy's Laboratory** and **Mylan Laboratory's Limited**.

### Research Funding:

1. Co-Investigator, "Design and development of Ras/Raf interaction inhibitors" funded by All India Council for Technical Education (AICTE), Government of India, under Research Promotion Scheme [Amount Sanctioned: INR ₹17,79,000; 2010-2012]

### Professional Recognition, Awards, Achievements:

- Qualified GATE 2003 with 94.16 percentile (All India rank: 372).
- Received A.I.C.T.E. scholarship worth Rs. 1lakh, 30 thousand for M.Pharm.
- Pubmed citation: 3.
- Reviewer of 5 international peer reviewed journals.
- Collaborated with Dr. Mario. D. Galigniana, Laboratory of Nuclear receptors, Institute of Biology and Experimental Medicine, Buenos Aires, Argentina for carrying out HSP90 inhibition activity and anticancer studies.

### Representative Publications (selected 7 publications)

1. **Sayan Dutta Gupta**, D. Snigdha, Gisela I. Mazairad, Mario D. Galigniana, C.V.S Subrahmanyam, N.L. Gowrishankar and N. M. Raghavendra. Molecular Docking study, synthesis and biological evaluation of Schiff bases as Hsp90 inhibitors. **Biomed. Pharmacother.** 15<sup>th</sup> January, 2014, Article in press. **Impact factor: 2.07**
2. Moorthy NSHN, **Gupta SD**, Singh RJ, Singh HP. Synthesis, biological evaluation and in silico metabolic and toxic prediction of some flavanone derivatives. **Chem. Pharm. Bull.** 2006; 54: 1384-1390. **Impact factor: 1.67**
3. **Gupta SD**, Singh HP and Moorthy NSHN. Iodine catalyzed one- pot synthesis of some benzothiazole derivatives. **Syn. Com.** 2007; 37: 4327-4329. **Impact factor: 1.062**
4. Moorthy NSHN, **Gupta SD**, Mandge S, Singh HP. Microwave assisted synthesis of chalcones. **Trends In Applied Sciences and Research** 2007; 2: 52-56 **Impact factor: 0.5**
5. **Dutta Gupta S**, Moorthy NSHN and Sanyal U, Synthesis, Cytotoxic evaluation, in-silico pharmacokinetic and QSAR study of some benzothiazole derivatives. **Int. J. Pharm. Pharm. sci.** 2010; 2(3): 57-62. **Impact factor: 1.2**

- Nulgulmnalli Manjunathiah Raghavendra, Surampudi Renuka, **Sayan Dutta Gupta**, Pingili Divya. Thiazole Containing Nitrogen Mustards: Synthesis, Structural Evaluation, Cytotoxicity and DNA Binding Studies. **Lett. Drug Des. Dis.** 2011; 8(9): 838-842. **Impact factor: 0.872**
- Sayan Dutta Gupta**, Ganga Balaji Rao & Nulgulmnalli Manjunathiah Raghavendra Microwave-assisted green synthesis of 1, 3-benzodioxole derivatives: **Green chem. Let. Rev.** 2012; 5(4): 609-620. **Impact factor: 1.38.**

**Books:**

- Raghavendra NM, **Sayan DG:** Laboratory manual of pharmaceutical organic chemistry - I: Synthesis and qualitative analysis of organic compounds, 2013, Vallabh Prakashan, New Delhi.

**Conference Publications (selected 5 publications):**

- Presented a paper on "Application of Computer in Pharmacy" at an **International conference, GLOGIFT-2005** held in RGPV, Bhopal Author- Sayan Dutta Gupta
- Published a paper on "Synthesis, cytotoxic evaluation, in silico pharmacokinetic and QSAR study of some benzothiazole derivatives" at an **International conference, Med Chem India**, held in Hotel Century Pavilion, Bangalore, 18<sup>th</sup>-19<sup>th</sup> March, 2008 Authors- **Sayan Dutta Gupta**, C.Karthikeyan and N.S.H.N. Moorthy.
- A research article on "Synthesis and Biological Evaluation of 1,3-Benzodioxole derivatives for anti-neoplastic activity" has been presented in **Indian Pharmaceutical Congress, held at Manipal University, Manipal from 17<sup>th</sup>-19<sup>th</sup> December, 2010.** Authors- Ganga Balaji Rao, Sayan Dutta Gupta and Raghavendra N.M. ( **Code-B63**)
- A research article on "Structure based virtual screening and chemical synthesis of Heat Shock Protein 90 (HSP 90) inhibitors." was published in **Indian Pharmaceutical Congress, held at Bengaluru, from 16<sup>th</sup>-18<sup>th</sup> December, 2011.** Authors: Sayan Dutta Gupta, C.V.S. Subrahmanyam and Raghavendra N.M. (**Code: B 61**)
- Published a paper on "Identification of conserved water molecules and comparative study of docking score in structure based drug design of HSP 90 inhibitors" at **BIOFEST 2012, an international bio-conference and event**, held in Hyderabad from 12<sup>th</sup> -13<sup>th</sup> December, 2012. Authors: **Sayan Dutta Gupta**, C.V.S. Subrahmanyam and Raghavendra N.M.

**Life Member of the Following National Societies:**

- Association of Pharmaceutical teachers of India (APTI). Registration number: AP/LM-651