# Dr. Vishwa Deepak Tripathi

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DOB: 11th July 1986
Nationality: Indian
Sex: Male




## Work Experience

**July 2022 till today**

**Assistant Professor**

*Department of Chemistry*

*C. M. Science College, Darbhanga Bihar*

*(A Constituent unit of L.N. Mithila University)*

Here I am Teaching Chemistry to UG and PG students of Chemistry Hons subject and guiding 4 research students for their PhD degree. I am acting as Inchanrge of a department of 11 faculty members and about 1000 students. As well as I am acting as NAAC Coordinator of Institution.

**November 2017 2012 to June 2022**

**Assistant Professor and Head**

*Department of Chemistry*

*M.K. College, Darbhanga, Bihar*

*(A Constituent unit of L. N. Mithila University)*

Here I was selected by Bihar Public Service Commision and posted as head of department of chemistry. I was responsible for teaching undergraduate students, supervising departmental activities and leading a department of 4 teaching and 3 non teaching man powers. I also served as IQAC coordinator and examination controller in this organization. During my tenure a smooth functioning was developed in department as well as college level.

**September 2015 to September 2017**

**CEFIPRA Postdoctoral Fellow at**

*Laboratoire de Chimie de Coordination*

*Toulouse, France,*

In Prof **Anne-Marie CAMINADE** group on the project "Original biocompatible phosphorous based dendrimers as a new strategy to tackle pulmonary tuberculosis." In collaboration of Prof. **Jean Perrie MAJORAL** and Prof. **Serge MIGNANI**.

**Senior Research Associate at** **August 2012 to July 2015**

*Zydus Cadila Healthcare Limited R&D (API)*

*Vadodara, Gujarat.*

- Here I worked on the development of SAROGLITAZAR (lipaglyn), the first indigenous drug to treat diabetic dyslipidemia recently launched by Zydus Cadila.
- As a team member I was involved to develop and validate the scale up process of Saroglitazar for commercial production.
- As a team member I was involved to develop scale up process for ZYDPLA1 (recently got FDA approval) a novel DPP-IV inhibitor to treat diabetes.
- In addition to this during my industrial experience I worked on several drugs **(Etoricoxib, Mirabegron, Canagliflozin, Ticagrlor and Macitentan**) in order to develop novel non infringing process for DMF filing.
- Here I have also worked for the development of novel polymorph for Mirabegron (drug for overactive bladder).
- At Zydus Cadila I got opportunity to learn the steps involved in to take a drug from laboratory to ANDA filing, Para IV filing, DMF filing and up to commercial production.

## Education

**Ph.D.**

Central Drug Research Institute, Lucknow. (JNU New Delhi) under

Supervisinon of **Dr. Atul Kmuar** on the topic "**Natural Product Inspired Design and Synthesis of Medicinally Active Heterocycles**" **2008 to 2012**

**MSc.**

University of Lucknow **2006 to 2008**

Chemistry (I$^{st}$ division)

**BSc**. **2003 to 2006**

University of Lucknow

Botany, Chemistry (I$^{st}$ division)

**Intermediate** **2003**

Central board of Secondary Education

Physics, Chemistry,Maths, Biology, English (I$^{st}$ division)

**Highschool** **2001**

Central board of Secondary Education

Physics, Chemistry,Maths, Biology, English (I$^{st}$ division)

## Skills and Abilities

Design, Synthesis, purification and characterization of molecules of therapeutic importance. To develop the molecule from milligram to multi-gram and up to pilot scale.

## Familiar with Instruments

- Bruker NMR spectrometer 300 and 400 MHz
- HPLC (Agilent Technologies)
- UV-Visible spectrometer (JASCO)
- IR (Parkin Elmer)
- High pressure reactor (Parr reactor)

## Meeting Presentation and Symposium:

**1.**Given oral presentation on topic "Natural product inspired synthesis of Tryptanthrin glycoconjugates: potential antitubercular agents" in **7th J-NOST symposium** held at **IISER mohali**, Chandigarh from 15th to 18th December. 2011

**2.** "Synthesis of novel curcumin analogues as topoisomerase-II inhibitors." CTDDR-2010, held at CDRI, Lucknow.

**3.** "Design and Synthesis of 1,3-biaryl sulfanyl derivatives as new anti breast cancer agents. 3rd NIPER(RBL)-CDRI symposium at CDRI Lucknow from 3rd to 5 th march 2011."

**4.** Synthesis of spirooxindoles as potential antihyperglycimic agents. 4thNIPER(RBL)-CDRI symposium at CDRI Lucknow from 23rd to 25th Feb. 2012.

**5**. Attended national symposium on "Natural product and organic synthesis" held at Lucknow university on 26 th march 2012.

## Awards and Academic Achievements:

- Published PCT for process development of Saroglitazar (lipaglyn). (**WO2014195967 A3).**
- CDRI incentive award (2011) for the excellent research work in the form of publication in "Green Chemistry".
- 2 nd prize poster presentation in 3rd NIPER-CDRI (RBL) symposium held at CDRI Lucknow.
- Junior Research Fellow (CSIR) Jan 2009-Jan 2011
- Senior Research Fellow (CSIR) Jan 2011-July 2012

## Languages:

Fluent speaking, reading and writing in English, Hindi.

## Publications:

1) Atul Kumar, Vishwa Deepak Tripathi, Promod Kumar β-Cyclodextrin catalysed synthesis of tryptanthrin in water. ***Green Chemistry*** 2011, 13, 51.
2) Atul Kumar, Vishwa Deepak Tripathi, Design and synthesis of 1,3-biarylsulfanyl derivatives as new anti-breast cancer agents ***Bioorganic and Medicinal Chemistry*** 2011, 19, 5409.
3) Atul Kumar, Siddharth Sharma, Vishwa Deepak Tripathi, Suman Srivastava. Synthesis of chalcones and flavanone from Juia-Kocienski olefination. ***Tetrahedron,*** 2010, 66, 9445.
4) Atul Kumar, Siddharth Sharma, Vishwa Deepak Tripathi, Ram Awatar Maurya, Swayam Prakash Srivastava, Gitika Bhatia, A.K. Tamrakar, Arvind Kumar Srivastava. Design and synthesis of 2,4-disubstituted polyhydroquinolines as prospective antihyperglycemic and lipid modulating agents. ***Bioorganic and Medicinal Chemistry***, 2010, 18, 4138.
5) Atul Kumar, Promod Kumar, Vishwa Deepak Tripathi. A novel access to indole-3-substituted dihydrocoumarins in artificial sweetener saccharin based functional ionic liquids ***RSC Adv.*** 2012, 2, 11641-11644.
6) Medicinal applications of coordination complexes HS Mohammed, VD Tripathi Journal of Physics: Conference Series 1664 (1), 012070, 2020

## Patents

1) A process for Preparation of Pyrroles Having Hypolipidemic Hypocholesteric Activities. **WO2014195967 A3**. 26 march 2015 **TRIPATHI, Vishwadeepak Rama Pati**, DWIVEDI, Shriprakash Dhar; SINGH, Ramesh Chandra; Rajendra Gokalbhai; PATEL, Jagdish Maganlal; PAL, Daya Ram; RAVAL, Jigar Mukundhai; SHARMA, Mukul Hariprasad; GANGWAR, PranavJitendra; PATIL, Sachin Ashokrao; PATEL, Vikas.
2) An improved process for the preparation of pyrrole derivatives. **WO2015033357 (A3)** May 7, 2015. **Tripathi, Vishwadeepak Rama Pati**; Patel, Vikas; Patel, Jagdish Maganlal; Singh, Ramesh Chandra; Dwivedi, Shri Prakash Dhar; Gangwar Pranav Jitendra; Raval, Jigar Mukundhai.
3) An improved process for Asymmetric synthesis of sitagliptin. Indian Patent, **Tripathi, Vishwadeepak Rama Pati**; DWIVEDI, Shriprakash Dhar, Application No. 2049/MUM/2013, filing date 18-Jul-2013.
4) An improved process for synthesis of Duloxetin. Indian Patent, **Tripathi, Vishwadeepak Rama Pati**; DWIVEDI, Shriprakash Dhar, Application No. 2410/MUM/2013, filing date 18-Jul-2013.

## Areas of Research Interest:

- Medicinal Chemistry
- Natural product inspired synthesis
- Dendrimer chemistry
- Process chemistry

## Testimony:

I hereby declare that the information given above is true to the best of my knowledge and belief.
Sincerely Yours,

Vishwa Deepak Tripathi