

Dr. Vinod Kumar Tiwari, Professor at B.H.U., Varanasi



Address for Communication

Dr. Vinod Kumar Tiwari

Professor, Organic Chemistry
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NATIONALITY: INDIAN

LANGUAGE: English, Hindi

DATE OF BIRTH: 3-01-1976

RESEARCH INTEREST:

Organic Synthesis, Synthetic Carbohydrate Chemistry, Click Chemistry, Glycodendrimer, BtRC, Medicinal Chemistry

Secretary, ACCT(I), 2019-cont.

Editor: *Trends Carbohydr. Res.*,
Current Organic Chemistry,
Elsevier-Carbohydrates in Drug Discovery and Development.

(Dr. Vinod Kumar Tiwari)

EDUCATION

1999-2004	Ph.D. Medicinal Chemistry	CSIR-CDRI (awarded from JNU) Mentor: Dr R P Tripathi , CDRI
1996-1998	M.Sc. Organic Chemistry	Department of Chemistry, Banaras Hindu University

PROFESSIONAL EXPERIENCE

11/2020 to continued	Professor	Department of Chemistry, Institute of Science, Banaras Hindu University
2009-2010	Guest Scientist	Universitat Konstanz, Germany Mentor: Prof. Richard R Schmidt
2007-2008	Visiting Fellow	University of California-Davis, USA Mentor: Prof. Xi Chen
2005-11/2017	Assistant Professor	Department of Chemistry, Banaras Hindu University, Varanasi, India
2005-2005	Postdoctoral Fellow	University of Florida, Gainesville, USA Mentor: Prof. Alan R Katritzky
2004-2005	Lecturer	Bundelkhand University Jhansi, India

RESEARCH CONTRIBUTION

No. of Publications :	160 (<i>h</i> -index: 40, Citation: 6500, IF: 500)
Patents :	08
Book chapters :	21
Book Edited :	3 (+1)
Invited Lectures :	200
PhD supervised :	13 (Eight are working at present)
Research Project :	7 completed (ongoing 3, CSIR, IoE & SERB)

AWARDS & HONOURS (SELECTED LIST)

1. Listed in Top 2% Scientist Ranking Worldwide for the Year 2021
2. Chemical Research Society of India (CRSI), Bronze Medal for the year 2021.
3. Most Productive Researcher Award-2019, Banaras Hindu University.
4. Excellence in Carbohydrate Research Award-2019, ACCT(I).
5. Dr S S Deshpande Award-2016 for High Impact Contribution in Chemistry.
6. 1st Prof N Roy Award for the Excellence in Carbohydrate Chemistry-2015.
7. Prof. A. S. R. Anjaneyulu 60th Birthday Commemoration Award-2014.
8. Chemical Research Society of India, Young Scientist Award-2012.
9. Dr Ghanashyam Srivastava Medal-2012, Indian Chemical Society.
10. 1st Dr. H C Srivastava Award-2012, ACCT(I).
11. Prof. R C Shah Memorial Lecture Award-2011 (ISCA).
12. Dr. Arvind Kumar Memorial Award-2010, Indian Council of Chemist.
13. Young Scientist Award-2010, U.P. Council of Science & Technology.
14. Young Investigator Prize-ICRABTS 2004 (Offered for the Lecturer, BU).
15. Dr. D. S. Bhakuni Award-2004, Indian Chemical Society.
16. Qualified NET-CSIR-UGC, SET-Maharashtra, NET-ARS, GATE, etc.

List of eleven representative publications:

1. A Mishra, **V K Tiwari***, One-pot Synthesis of Glycosyl- β -Azidoester via Diazotransfer reaction towards an easy access of Glycosyl- β -Triazolyl Ester, *J. Org. Chem.*, **2015**, *80*, 4869 - 4881.
2. K B Mishra, **V K Tiwari***, Click Chemistry Inspired Synthesis of Diverse Morpholine-fused Triazoles, *J. Org. Chem.*, **2014**, *79*, 5752-5762.
3. D Kumar, B B Mishra, **V K Tiwari***, Synthesis of 2-*N/S/C*-substituted Benzothiazoles via Intramolecular Cyclative Cleavage of Benzotriazole Ring, *J. Org. Chem.*, **2014**, *79*, 251-265.
4. D Kumar, A Mishra, B B Mishra, S Bhattacharya, **V K Tiwari***, Synthesis of Glycoconjugate Benzothiazoles via Cleavage of Benzotriazole Ring, *J. Org. Chem.*, **2013**, *78*, 899-909.
5. V Prasad, R R Kale, B B Mishra, D Kumar, **V K Tiwari***, Diacetoxyiodobenzene Mediated One-Pot Synthesis of Diverse Carboxamides from Aldehydes, *Org. Lett.*, **2012**, *14*, 2936-2939.
6. D Kushwaha, **V K Tiwari***, Click Chemistry Inspired Synthesis of Porphyrin Glycodendrimers, *J. Org. Chem.*, **2013**, *78*, 8184-8190.
7. H Yu, J Cheng, L Ding, Z Khedri, Y Chen, K Lau, **V K Tiwari**, X Chen*, Chemoenzymatic Synthesis of GD3 Oligosaccharides and other Disialyl Glycans containing Natural and non-natural Sialic Acids. *J. Am. Chem. Soc.*, **2009**, *131*, 18467-18477.
8. N. Mishra, A. S. Singh; A. K. Agrahari; S. Singh; M. Singh; **V K Tiwari***, Synthesis of Benz-Fused Azoles via C-Heteroatom Coupling Reactions Catalyzed by Cu(I) in the Presence of Glycosyltriazole Ligands, *ACS Combinatorial Science*, **2019**, *21* (5), 389-399.
9. **V. K. Tiwari***, B. B. Mishra, K. B. Mishra, N. Mishra, A. S. Singh, X. Chen*, Cu(I)-Catalyzed Click Reaction in Carbohydrate Chemistry, *Chem. Rev.*, **2016**, *116*, 3086-3240 [CI = 560]
10. **Tiwari, V. K.** et al., Cu(I)-catalyzed Click Chemistry in Glycoscience and their Applications. *Chem. Rev.*, **2021**, *121*, 7638-7956 (Invited article for thematic issue).
11. N. Mishra, S. K. Singh, A. K. Agrahari, A. S. Singh, **V. K. Tiwari***, Glycosyl Triazole ligand for Temperature Dependent Competitive Reactions of Cu-catalyzed Sonogashira coupling and Glaser Coupling, *J. Org. Chem.*, **2021**, *87*, 17884-17895.
12. Natural Products: An evolving role in future drug discovery, B B Mishra and **V. K. Tiwari***, *Eur. J. Med. Chem.*, **2011**, *46*, 4769-4807 [Journal 1st Rank article, CI = 995].
13. **V. K. Tiwari***, Development of Biologically Relevant Glycohybrid Molecules: Twenty Years of Our Journey, *Chem. Rec.*, **2021**, *21*, 3029-3048 (Invited article for special issue on "Recent Advances in Carbohydrate Chemistry").

(Published: 160; H-index = 40; i10: 102, Citations = 6500; IF: ~ 500)