

CURRICULUM-VITAE

Name Dr. Vijay Mahaling Kasture
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Place of work Department of Chemistry, Post-graduate and Research Center, MES
Abasaheb Garware College, Karve Road, Pune-411 004,
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Present Position Assistant Professor in Chemistry

Academic Qualifications

Degree	Year	Institute	Class
B.Sc. (Chemistry)	April 2001	Shivaji University, Kolhapur.	1 st
M.Sc. (Inorganic Chemistry)	April 2003	S. P. College, Pune.	1 st
M.Sc. (Organic Chemistry)	April 2005	Poona College of Arts, Commerce and Science, Pune.	1 st Class with Distinction
CSIR-UGC-NET	Dec. 2004	-	-
CSIR-UGC-NET-JRF	Jun. 2005	-	-
Ph.D. (Chemistry)	Oct. 2015	Dept. of Chemistry, SPPU, Pune.	-

Title of Thesis: "Chiron Approach and Glycosidase Inhibitory Studies of Proline Analogues, Amino-
iminosugars and Attempted Synthesis of Octosyl Acid A using Rhodium Carbenoid
Chemistry"

Thesis advisor: PROFESSOR DILIP D. DHAVALA (F. A. Sc., F. N. A. Sc.)

Awards and Fellowships:

1. Junior Research Fellowship for Ph.D. from CSIR, New Delhi (2006 – 2009)
2. Senior Research Fellowship for Ph.D. from CSIR, New Delhi (2009 – 2011)

Research Projects Undertaken:

Research project entitled "Benzylic and Allylic C-H activation through electron transfer initialized cyclization: Strategy towards synthesis of tetrahydropyran based natural products, their analogues and study of their biological activity" sponsored by U.G.C., New Delhi (Ongoing).

LIST OF PUBLICATIONS

1. Synthesis, conformational study and glycosidase inhibitory activity of dihydroxylated 4- and 5-amino-iminosugars
Vijay M. Kasture, Navnath B. Kalamkar, Roopa J. Nair, Rakesh S. Joshi, Sushma G. Sabharwal and Dilip D. Dhavale
Carbohydrate Research **2015**, *408*, 142 (18 May 2015)
2. Synthesis of Protected 4-Amino- and 4-Azido-3-hydroxy-L-prolines from D-Glucose
Vijay M. Kasture, Navnath B. Kalamkar, Dilip D. Dhavale
Synthesis **2012**, *44(17)*, 2735-2738.
3. Concise and practical route to tri- and tetra-hydroxy seven-membered iminocyclitols as glycosidase inhibitors from D-(+)-Glucurono- γ -lactone.
Navnath B. Kalamkar, **Vijay M. Kasture**, Sanjay T. Chavan, Sushma G. Sabharwal and Dilip D. Dhavale
Tetrahedron **2010**, *66*, 8522–8526
4. Total synthesis of natural *cis*-3-hydroxy-L-proline from D-Glucose
Navnath B. Kalamkar, **Vijay M. Kasture** and Dilip D. Dhavale[□]
Tetrahedron Lett. **2010**, *51*, 6745–6747
5. Isolation and characterization of indole acetic acid (IAA) producing *Klebsiella pneumoniae* strains from rhizosphere of wheat (*Triticum aestivum*) and their effect on plant growth
Sachdev Dhara P., Chaudhari Hemangi G., **Kasture Vijay M.**, Dhavale Dilip D., Chopade, B. A.
IJEB **2009**, *47*, 993-1000
6. Chiron approach to the synthesis of (2*S*,3*R*)-3-hydroxypiperidic acid and (2*R*,3*R*)-3-hydroxy-2-hydroxymethylpiperidine from D-glucose.
Navnath B. Kalamkar, **Vijay M. Kasture** and Dilip D. Dhavale
J. Org. Chem. **2008**, *73*, 3619–3622