

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,
MAHARASHTRA, INDIA. Tel. No. (020) 41038263

Present Position Associate Professor in Chemistry

Academic Qualification

Degree	Year	Institute	Class
B.Sc. (Chemistry)	April 2001	YCIS, Satara	1 st
M.Sc. (Inorganic Chemistry)	April 2003	S. P. College, Pune	1 st
M.Sc. (Organic Chemistry)	April 2005	Poona College, Pune	1 st Class with Distinction
CSIR-UGC-NET	Dec. 2004	-	Qualified
CSIR-UGC-NET-JRF	Jun. 2005	-	Qualified
Ph.D. (Chemistry)	Oct. 2015	Dept. of Chemistry, SPPU, Pune.	Awarded

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.)

Teaching Experience:

Under-Graduate: 15 Years since November, 2011

Post-Graduate: 09 Years since June, 2016

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)

ACADEMIC PROFILE

- Examiner, Paper Setter, Moderator - SPPU, Pune.
- Paper Evaluation – Fergusson College, SP College
- Member, Syllabus Restructuring, SPPU, Pune.

- *External Practical Examiner* – Wadia College, Poona College, SP College, Fergusson College, Annasaheb Magar College-Hadapsar, Modern College–Shivajinagar, Anantrao Pawar College –Pirangut, CT Bora College-Shirur, BJS College-Wagholi, Abeda Inamdar College, Anantrao Thopate College, Bhor, Bapuraoji Gholap College-Sangavi, Waghire College, Saswad etc.
- *Resource Person*, NET/SET Workshop, YC College Satara
- *Resource Person*, One Day Seminar “Spectroscopy: A Tool of Analysis” at Annasaheb Magar College, Pune.
- *Resource Person*, Avishkar Workshop, TC College, Baramati.
- *Resource Person*, NET/SET Workshop, BJS College, Wagholi, Pune
- *Resource Person*, “Career Guidance in Chemistry after Graduation” at Shri Siddhivinayak Mahila Mahavidyalaya, Pune.
- *Resource Person*, Online- “Research Project Evaluation” -Sangamner Nagarpalika Arts, D.J. Malpani Commerce and B.N. Sarda Science College.

E-CONTENT AND TEXTBOOK WRITING FOR UG AND PG STUDENTS

1. **YouTube Channel:** The School of Chemistry - Dr. Vijay M Kasture
http://www.youtube.com/@The_Conceptual_Chemistry
2. **Number of Textbooks Published = 17+ [For F.Y.B.Sc., S.Y.B.Sc., T.Y.B.Sc. and M.Sc.-I]**

Research Interests and Projects Undertaken:

Minor Research Project- U.G.C., New Delhi - "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"

Research Interests: Organic Synthesis, E-Content Development

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 (2S,3R)-3-hydroxypipelicolic acid and (2R,3R)-3-hydroxy-2-hydroxymethylpiperidine from D-glucose.

Navnath B. Kalamkar, Vijay M. Kasture and Dilip D. Dhavale, *J. Org. Chem.* **2008**, 73, 3619–3622.
