

Vivekshinh Kshtriya
Senior Research Fellow
Department of Chemistry,
Indrashil University-
An education initiative of Cadila Pharmaceuticals Ltd,
382740, Gujarat, India



kshtriya.vivek28@gmail.com; vivek.kshtriya@outlook.com



[+917874787715](tel:+917874787715)

Research link

<https://scholar.google.com/citations?user=9kszxRMAAAAJ&hl=en>
<https://www.researchgate.net/profile/Vivekshinh-Kshtriya-2>

Personal Information

Nationality	Indian
Gender/ Marital status	Male/ Unmarried
Date of Birth	05-06-1993
Location	Ahmedabad, Gujarat, India
Permanent Address	B-7, Maruti Residency-II, Near Singarva Village, Singarva, Ahmedabad-382430, Gujarat, India.

Education and qualifications

2014 - 2016	Master of Science (M.Sc.) 7.39 (CGPA). Specialization: Organic Chemistry Gujarat University, Gujarat, India.
2011 -2014	Bachelor of Science (BSc.) 7.22 (CGPA) Specialization: Chemistry, C.U. Shah Science Collage Ahmedabad, India.

Ph.D. Research experience

Jan 2018 –Present	Ph.D. Research Fellow , Department of Chemistry, Indrashil University, Mehsana, India.
--------------------------	--

Fellowships

Mar 2021-Present	Indian Council of Medical Research Senior Research Fellow (ICMR SRF) (For pursuing Ph.D., Department of Chemistry, School of Science, Indrashil University, Mehsana, India.
Jan 2020-Dec 2020	DST-SERB Junior Research Fellow (For pursuing Ph.D.), Department of Chemistry, School of Science, Indrashil University, Mehsana, India.
Jan 2018-Jun 2019	Junior Research Fellow (For pursuing Ph.D.), Institute of Advanced Research, Department of Chemistry, Gandhiangar-382426, Gujarat, India.

Industrial Experience

Jun 2019-Dec2019	Research and Development (R & D) Chemist (Synthetic chemistry), Matangi Industries LLP, GIDC Vatva, Ahmedabad, Gujarat 382445.
Feb 2016-Dec 2017	Research Associate-I (Synthetic Chemistry), Oxygen Healthcare Research Pvt. Ltd, Ahmadabad-382213, Gujarat-, India.

Awards/Fellowships

1. Received prestigious Senior Research Fellowship from Indian Council of Medical Research (ICMR-SRF) for pursuing Ph.D. in Chemical Biology Research (**2021-2024**)
2. Won best ACS poster presentation award at International Symposium on Materials of the Millennium: Emerging Trends and Future Prospects (MMETFP-2021) organized by Pandit Deendayal Energy University, Gandhinagar, India, during 19-21 November, 2021.

Membership of Scientific community

Life time member of Chemical Research Society of India (CRSI).

Current Interest and previous experience

- Research and Development synthetic organic Chemistry
- Analytical data interpretation (NMR, HPLC, Mass, UV-visible etc)
- Material Characterization (FE-SEM, AFM, TEM, XRD, DLS, CD etc)
- Process Development
- Technology Transfer (Lab to Plant)

List of Publications (Original research articles, Preprint, Review, Book Chapter)

- 1) **Kshtriya, V.**, Koshti, B., Mehmood, T., Singh, R., Joshi, K. B., Bandyopadhyay, S., ... & Gour, N. (2022). A new Aggregation Induced Emission Enhancement (AIEE) Dye which Self-Assembles to Panchromatic Fluorescent Flowers and has Application in Sensing Dichromate ions. *Soft Matter*. (**Just Accepted**)
- 2) Koshti, B., **Kshtriya, V.**, Soumick Naskar, Hanuman Narode, Gour, N.*, (2022). Controlled aggregation properties of aliphatic charged and aromatic amino acids modified with protecting groups. *New J. Chemistr*, DOI: <https://doi.org/10.1039/D1NJ05172E>. (**Equal First Author**)
- 3) Koshti, B., **Kshtriya, V.** S. Nardin-Vebert, C.& Gour, N.*(2021). Chemical Perspective of the Mechanism of Action of Antiamyloidogenic Compounds Using a Minimalistic Peptide as a Reductionist Model. *ACS chemical neuroscience*12, 15, 2851–2864. <https://doi.org/10.1021/acscchemneuro.1c00221>.
- 4) **Kshtriya, V.**, Koshti, B., Gangrade, A., Haque, A., Ramesh, S., Joshi KB & Bhatia, D.Gour, N.*, (2021). Synthesis and Characterization of the Fluorescent Self-Assembled Structures Formed by Benzothiazolone Conjugates and Applications in Cellular Imaging. *New J. Chemistry* DOI: 10.1039/D1NJ03269K.
- 5) **Kshtriya, V.**, Koshti, B., Pandey, D. K., Kharbanda, S., Singh, D. K., Bhatia, D., & Gour, N.* (2021). Sequential and cellular detection of copper and lactic acid by disaggregation and reaggregation of the fluorescent panchromatic fibres of an acylthiourea based sensor. *Soft Matter*, 17(16), 4304-4316.
- 6) Koshti, B., **Kshtriya, V.**, Walia, S., Bhatia, D., Singh, R. & Gour, N.* (2021). Unusual Aggregates Formed by the Self-Assembly of Proline, Hydroxyproline and Lysine. *ACS chemical neuroscience*.
- 7) Gour, N. *, **Kshtriya, V.**, Gupta, S., Koshti, B., Singh, R., Patel, D., & Joshi, K. B. (2019). Synthesis and Aggregation Studies of a Pyridothiazole-Based AIEE Probe and Its Application in Sensing Amyloid Fibrillation. *ACS Applied Bio Materials*, 2(10), 4442-4455.
- 8) Gour, N.*, Kanth P, C., Koshti, B., **Kshtriya, V.**, Shah, D., Patel, S. & Pandey, M. K. (2019). Amyloid-like Structures Formed by Single Amino Acid Self-Assemblies of Cysteine and Methionine. *ACS chemical neuroscience*.

Preprints in ChemRxiv which are not published (under review in Journals)

- 9) **Kshtriya, V.**, Koshti, B. & Gour, N.* (2021). Controlled morphological changes in self-assembled structures formed by Fmoc variants of Threonine and Serine. *Preprint (under review in NJC)*
- 10) **Kshtriya, V.**, Koshti, B., Narode, H., Naskar, S. & Gour, N.* “Controlled self-assembly of modified aromatic amino acids.” *Preprint*
- 11) Koshti, B., Naskar, S., Narode, H., **Kshtriya, V.** & Gour, N.* “Controlled self-assembly of modified aliphatic amino acids.” *Preprint*
- 12) Naskar, S., Koshti, B., Narode, H., **Kshtriya, V.** & Gour, N.* “Controlled self-assembly of modified amino acids Lysine and Glutamic acid and Aspartic acid.” *Preprint*

Book Chapter

- 13) **Kshtriya, V., B. Koshti, Gour N.*(2021)** “Green synthesized Nanomaterials: Classification, Synthesis, Characterization, and Applications” *Elsevier*, USA, Ed. SK Verma and AK Das

Student guidance/mentorship:

- Served as students guide for 13 M.Sc. /M. Tech/ project thesis so far.
- Pruthvi Upadhyay (M.Tech, Mumbai University)
- Jainisha Patel (M.Sc. Project student, IAR)
- Yash Barot (M.Sc. Project student, IAR)
- Harshil Patel (M.Sc. Project student, IAR)
- Krupali Hun (M.Sc. Project student, VNSU, Surat)
- Rasila Chaudhary (M.Sc. Project student, Indrashil University)
- Mayuri Sojitra (M.Sc. Project student, VNSU, Surat)
- Yogesh Bhoya (M.sc Project student, Indrashil University)
- Rasila Parmar (M.sc Project student, Indrashil University)
- Bhamini Vasava (M.sc Project student, Indrashil University)
- Alita Gamit (M.sc Project student, Indrashil University)
- Ankesh Patel M.sc Project student, Indrashil University)
- Ankita Gamit (M.sc Project student, Indrashil University)

Extra-curricular activities/Poster presentation

- Participated and presented a poster in 28th CRSI National Symposium in Chemistry (CRSI-NSC) organized by Department of Chemistry, Indian Institute of Technology Guwahati, Assam, during 24-27th March, 2022.
- Participated and presented a poster in 27th National Magnetic Resonance Society-2022 (NMRS-2022) organized by department of Chemistry, Indian Institute of Technology, Gandhinagar, during 6-9 March 2022.
- Participated as flask talk presenter in 7th International Conference on Advanced Nanomaterials and Nanotechnology (ICANN2021) organized by Centre for Nanotechnology, Indian Institute of Technology Guwahati, Assam, during 14th-17th December, 2021.
- Participated and presented a poster in International Symposium on Materials of the Millennium: Emerging Trends and Future Prospects (MMETFP-2021), organized by Department of Chemistry & Physics, School of Technology, Pandit Deendayal Energy University (PDEU), Gandhinagar, Gujarat, India during 19th-21st, November, 2021.
- Attend International e-Conference-2021 on Covid-19: Challenges and Opportunities in Pharmaceutical Research" 18th–19th March, 2021.
- Presented the poster in 3rd National Conference in Chemistry, organized by Indian Institute of Technology (IIT), Gandhinagar, Palaj, Gujarat, during 1st-2nd February 2020.
- Presented the poster in First National Conference on Synthetic Biology for Reprogramming Cells, organized by Indrashil University, kadi, Mehsana, India, during 25th-26th January 2020.
- Participated and presented the poster in eURKa 2.0-2019 Annual Science and Startup Conclave organized by Institute of Advanced Research, Gandhinagar, during 11th-12th January, 2019.

- Presented the poster in National Conference on Advances in Spectroscopy: Molecules to Materials organized by Institute of Infrastructure Technology Research and Management (IITRAM), Ahmedabad, Gujarat, India during 4th-6th, October, 2018.
- Attained “RSC West India section Research Scholars Meet” at Forensic Science University on March 19th March 2016.
- Participated one-day state level seminar on Recent Green trends in Chemical Science on 29th, February, 2016.
- Participated in UGC-CAS sponsored national seminar on Innovations and Emerging dimension in Chemical Science Research; organized by Department of Chemistry, Sardar-Patel University on February 20th, 2016.
- Participate in the National Seminar on Confluence of Supramolecular Chemistry & nanoscience organized by department of chemistry, Gujarat University, Ahmedabad, India, during 27-28 March, 2015.
- Participated in National seminar on the green chemistry organized by Gujarat Forensic Science University during 22-23 March, 2015.
- Participated in seminar on Molecular Modeling & Medicinal chemistry organized by department of botany, Gujarat University, 21st March 2015.

Workshop

- Attained workshop on “Electron Microscopy (FE-SEM and TEM) during 22-23 March, 2018.
- Attained a workshop on Electron microscopy, XRD and ICP-OES instrument organized by Sophisticated Instrumentation Centre for Applied Research & Testing (SICART), Vallabh Vidyanagar, Anand, Gujarat on 7 March 2019.
-

Volunteer activity

- Worked extensively in association with Dr. Nidhi Gour as volunteer, Inspire Science Camp, sponsored by the Government of India, hosted by Indrashil University during 3-7 January, 2020.
- Worked as Volunteer in the First National Conference on Synthetic Biology for Reprogramming Cells organized by Indrashil University, during 25-26 January, 2020.

Competencies (Behavioral skills)

- Innovative
- Team Player
- Communication

Dr. Nidhi Gour (Ph.D. Supervisor)

Associate Professor,
School of science,
Department of Chemistry
Indrashil University, Kadi,
Mahesana, - 208016, India
Email: gournidhi@gmail.com; nidhigour.iu@gmail.com
Mob: +91- 9908700831

Dr. K. B. Joshi

Assistant Professor
Department of Chemistry,
Dr. Harisingh Gour Vishwavidyalaya (A Central University)
Sagar, Madhya Pradesh, 470003
E-mail: kbjoshi77@gmail.com, kbjoshi@dhsgsu.ac.in
Mob: +91 94258 49877

Dr. Nimesh Thakkar

R&D Manager,
Amoli Organics,
Vadodara, Gujarat, India
Mob: +916351933672

Declaration: I hereby declare that the above-mentioned information is correct to my knowledge and I bear the responsibility for the correction of the above particulars.

Vivekshinh Kshtriya

