

Department of Chemistry

Name	Dr. Chintankumar Ramanbhai Patel
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Designation and Current Position	Assistant Professor
Email	chintan.rpatel@utu.ac.in/ chintan_patel15585@yahoo.com
Qualification	Ph. D. (Chemistry)
Area of interest	Inorganic, Bioinorganic and Organic Chemistry
Teaching Experience	11-12-2017 to till date
Current Position	Assistant Professor
Achievements	<ol style="list-style-type: none"> 1. Research scholar for scholarship namely "Research Fellow in Science for Meritorious Student" availed by University Grant commission (New Delhi, INDIA) from 23rd March 2009 to 30th April 2013 with fellowship amount Rs.14,000/- p.m. for first two year and Rs. 16,000/- p.m. till the thesis submitted. 2. Post-doctoral fellow for the program namely "DST C*Change" centre of excellence for catalysis studies at University of Kwa-Zulu Natal, Durban, South Africa from September 2014 to September 2017 with the fellowship amount R15,000/- p.m.
List of Publications	<ol style="list-style-type: none"> 1. <i>DNA interaction and cytotoxic activities of square planar platinum(II) complexes with N, S-donor ligands</i> Mohan N. Patel, Chintan R. Patel, Hardik N. Joshi, Khyati P. Thakor <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i>, 127, (2014), 261-267. 2. <i>Square planar platinum(II) complexes with N, S-donor ligands: Synthesis, characterization, DNA interaction and cytotoxic activity</i> Mohan N. Patel, Chintan R. Patel, Hardik N. Joshi and Pankaj A. Vekariya <i>Applied Biochemistry and Biotechnology</i>, DOI: 10.1007/s12010-013-0618-z, 168, (2013), 1329-1345. 3. <i>Cytotoxic, antibacterial, DNA interaction and superoxide dismutase like activities of sparfloxacin drug-based copper(II) complexes with nitrogen donor ligands</i> Mohan N. Patel, Hardik N. Joshi, Chintan R. Patel <i>Spectrochimica Acta - Part A: Molecular and</i>

	<p><i>Biomolecular Spectroscopy</i>, 104, (2013), 48–55.</p> <p>4. <i>Metal based biologically active compounds: synthesis, characterization, DNA interaction, antibacterial, cytotoxic and SOD mimic activities</i> Mohan N. Patel, Chintan R. Patel, Hardik N. Joshi <i>Applied Biochemistry and Biotechnology</i>, 168, (2013), 1329–1345.</p> <p>5. <i>Synthesis, characterization and biological studies of mononuclear copper(II) complexes with ciprofloxacin and N, O donor ligand.</i> Mohan N. Patel, Chintan R. Patel, Hardik N. Joshi <i>Inorganic Chemistry Communications</i> 27, (2013), 51–55.</p> <p>6. <i>Copper(II) complexes with norfloxacin and neutral terpyridines: Cytotoxic, antibacterial, superoxide dismutase and DNA–interaction approach</i> Mohan N. Patel, Hardik N. Joshi, Chintan R. Patel <i>Polyhedron</i>, 40, (2012), 159–167.</p> <p>7. <i>Interactions with herring sperm DNA and biological studies of sparfloxacin drug–based copper(II) compounds</i> Mohan N. Patel, Hardik N. Joshi, Chintan R. Patel <i>Applied Organometallic Chemistry</i>, 26, (2012), 641–649.</p> <p>8. <i>DNA–interaction, in vitro antimicrobial and SOD like activity of copper(II) complexes with norfloxacin and terpyridines</i> Mohan N. Patel, Hardik N. Joshi, Chintan R. Patel <i>Journal of Organometallic Chemistry</i>, 701, (2012), 8–16.</p> <p>9. <i>Interaction of drug-based copper(II) complexes with Herring Sperm DNA and their biological activities</i> Mohan N. Patel, Chintan R. Patel, Hardik N. Joshi <i>Spectrochimica Acta – Part A: Molecular and Biomolecular Spectroscopy</i>, 97, (2012), 66–73.</p> <p>10. <i>Cytotoxic, DNA interaction, SOD mimic and antimicrobial activities of square pyramidal copper(II) complexes</i> Mohan N. Patel, Chintan R. Patel, Hardik N. Joshi <i>Zeitschrift für Anorganische und Allgemeine Chemie</i>, 638, (2012), 1224–1232.</p> <p>11. <i>Cytotoxic, DNA binding, DNA cleavage and antibacterial studies of ruthenium–fluoroquinolone complexes.</i></p>
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	<p><i>Mohan N. Patel, Hardik N. Joshi, Chintan R. Patel</i> <i>J. Chem. Sci. Vol. 126, No. 3, May 2014, pp. 739–749.</i></p> <p>12. <i>Crystal structure of N-phenyl-2-(pyridin-4-ylcarbonyl)hydrazinecarboxamide with Z' = 4, C₁₃H₁₂N₄O₂</i> <i>Pramod B. Pansuriya, Chintan R. Patel, Holger B. Friedrich, Glenn E. M. Maguire</i> <i>Zeitschrift für Kristallographie - New Crystal Structures. Vol. 231, Issue 2, 649–652, DOI: 10.1515/ncrs-2015-0229, April 2016</i></p> <p>13. <i>Crystal structure of 5,11,17,23-Tetra(tert-butyl)-25,26,27,28-tetrahexoxycalix[4]arene, C₆₈H₁₀₄O₄</i> <i>Chintan R. Patel, Marivel Samipillai, Holger B. Friedrich, Hendrik G. Kruger, Thavendran Govender and Glenn E. M. Maguire</i> <i>Z. Kristallogr. NCS 2017; 232(3): 397–402</i></p>
<p>Seminar/ Conference</p>	<p>1. Attended UGC Sponsored “2nd Interaction Programme for Ph.D. Scholars (All Disciplines)” held at Academic staff college, Sardar Patel University, Vallabh Vidyanagar. (19th – 24th March 2012).</p>
	<p>2. Attended UGC Sponsored “National Workshop on Frontiers in Chemistry” held at Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar. (2th – 4th February 2012)</p>
	<p>3. Presented Proposal on “Interaction of drug based copper(II) complexes with Sperm Herring DNA and their biological activities” in National Workshop on Research Methodology: A March Towards Creating Quality Through Research (NWCQTR) held at Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar. (12th – 14th March 2012)</p>
	<p>4. Orel presentation on “Cytotoxic, DNA interaction, SOD mimic and antibacterial activities of drug based square pyramidal copper(II) complexes with NS donor ligand” in Two day Symposium on Innovation in Science SPU Research Scholars Meet (ISSPURSM–2012) held at Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar. (8th – 9th January 2012)</p>
	<p>5. Poster presentation on “Synthesis, characterization, DNA interaction, antimicrobial, SOD mimic and cytotoxic activity of copper(II)</p>

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	complexes with NS donor ligand and ciprofloxacin” in International Conference On “Recent Trends in Advanced Materials” (ICRAM-2012) 20 th – 22 th , February 2012.
	6. Attended a national level workshop on “Recent Advances in Analytical Techniques for Pharmaceuticals” held at Department of Pharmaceutical Sciences, Sardar Patel University, Vallabh Vidyanagar. (18 th – 19 th March, 2011)
	7. Attended a national level workshop on “Combined Application of Spectroscopy” held at Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar. (17 th – 19 th February 2011)
	8. Oral presentation on “Drug based copper(II) complexes of NS donor ligand; antibacterial, DNA binding and SOD mimic activity” in 29 th Annual Conference of Indian Council of Chemist held at Department of Chemistry, Punjab University, Chandigarh. (19 th – 21 th Dec. 2011)
	9. Attended “A National Level Seminar on Nanotechnology Today and Tomorrow” held on March 8 th , 2010 at Nirma University, Ahemdabad.
	10. Attended “Two Days National Workshop on Green Chemistry” held on February 17 th – 18 th , 2010 at Sant Gadge Baba Amravati University, Amravati.