



Faculty Details proforma for DU Web-site

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Title	Dr	First Name	Ramendra	Last Name	Pratap	
Designation	Professor					
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Educational Qualifications						
Degree	Institution					Year
Ph.D.	Central Drug Research Institute, Lucknow (RML Avadh University Faizabad)					2007
PG	DDU Gorakhpur University Gorakhpur, (U.P.) India					2001
UG	DDU Gorakhpur University Gorakhpur, (U.P.) India					1999
Career Profile						
August 2009-September 2010: Alexander von Humboldt Postdoctoral Research in Universität des Saarlandes, Saarbrücken, Germany (Mo and W catalyzed hydrostannation reactions) July 2007-June 2009: Postdoctoral Research in The City College and City University of New York, New York-10031, USA (DNA modification chemistry, Metal catalyzed C-C and C-N bond formation Reactions, metal catalyzed C-H bond activation reactions) 2005-2007 (June): Doctoral Research in Central Drug Research Institute, Lucknow (Developed an efficient and concise approach to the synthesis polycyclic aromatics and heteroaromatics) 2003-2005 (June): Doctoral Research in Central Drug Research Institute, Lucknow (Engaged in the development of novel route to diverse arenes and heteroarenes through ring transformation reactions of 2H-pyran-2-ones) 2002-2003 (December): Doctoral Research in Central Drug Research Institute, Lucknow (Developed new protocol for the synthesis of antihyperglycemic agents)						

Administrative Assignments				
1. Serve as Member seminar Committee year 2012 and 2013 2. Serve as Deputy superintendent central evaluation examination 2013 (summer) 3. Served as observer for Delhi University examination 4. Served as member in departmental space committee 5. Served as member in departmental PG admission committee				
Areas of Interest / Specialization				
Organic Chemistry, Drug design and synthesis, Metal catalysis and heterocycles and carbocycles				
Subjects Taught				
Organic Chemistry				
Ist Semester- Reactive Intermediates, Stereochemistry				
IIInd Semester: Spectroscopic technique for identification of Organic compounds, Methods in Organic Synthesis				
IIIrd Semester: Organic Photochemistry and pericyclic Reactions				
Time table of the subjects taught during the current semester				
S.No.	Subject	Days	Time	Classroom
1	Organic	Monday	12.00am -01.00pm	Lecture hall No. 2
	Spectroscopy	Tuesday	12.00am -01.00 pm	
2	Organic	Monday	11.00-12.00	Online mode and Lecture
	Photochemistry and pericyclic Reactions	Tuesday	11.00-12.00	hall No. 2
3	MSc Final Practical	Thursday	9.00-13.00	Teaching Lab No. 5
		Friday	09.00-13.00	Teaching Lab No. 5
Research Guidance				
1. Supervision of awarded Doctoral Thesis -8 2. Supervision of Doctoral Thesis, under progress -3				
Publications Profile				
1. Goel, Atul; Agarwal, Nidhi; Singh, Fateh V.; Sharon, Ashoke; Tiwari, Priti; Dixit, Manish; Pratap, Ramendra; Srivastava, Arvind K.; Maulik, Prakas R.; Ram, Vishnu J. Antihyperglycemic activity of 2-methyl-3,4,5-triaryl-1H-pyrroles in SLM and STZ models. <i>Bioorganic & Medicinal Chemistry Letters</i> 2004, 14(5), 1089-1092. 2. Pratap, Ramendra; Sil, Diptesh; Ram, Vishnu J. An innovative approach to the synthesis of substituted benzaldehydes through carbanion induced ring transformation of suitably functionalized 2H-pyran-2-ones. <i>Tetrahedron Letters</i> 2004, 45(29), 5743-5745. 3. Sil, Diptesh; Sharon, Ashoke; Pratap, Ramendra; Maulik, Prakas R.; Ram, Vishnu J. Synthesis of benzocyclobutanes through ring transformation reactions of 2H-pyran-2-ones. <i>Synlett</i> 2004, 12, 2163-2164. 4. Pratap, Ramendra; Sharon, Ashoke; Maulik, Prakas R.; Ram, Vishnu J. A one-pot synthesis of an annelated[a]aza-thieno[3,2-g]naphthalenone through ring transformation followed by photocyclization. <i>Tetrahedron Letters</i> 2005, 46, 85-87. 5. Sharon, Ashoke; Pratap, Ramendra; Tripathi, Brajendra; Srivastava, A. K.; Maulik, P. R.; Ram, Vishnu J. Biaryls and heterobiaryls as α-glucosidase and protein tyrosine phosphatase inhibitors. <i>Bioorganic & Medicinal</i>				

Chemistry Letters **2005**, 15(5), 1341-1344.

6. Sharon, Ashoke; **Pratap, Ramendra**; Maulik, Prakas R.; Ram, Vishnu J. Synthesis of annelated[a]aza-anthracenones and thieno[3,2-g]aza-naphthalenones through ring transformation of 2*H*-pyran-2-one followed by photocyclization. *Tetrahedron* **2005**, 61(15), 3781-3787.
7. Sharon, Ashoke; **Pratap, Ramendra**; Tiwari, Priti; Srivastava, Arvind; Maulik, P. R.; Ram, Vishnu J. Synthesis and in vivo antihyperglycemic activity of 5-(1*H*-pyrazol-3-yl)methyl-1*H*-tetrazoles. *Bioorg. Med. Chem. Lett.* **2005**, 15, 2115-2117.
8. **Pratap, Ramendra**; Sil, Diptesh; Ram, Vishnu J. Substituent dependent regioselective synthesis of pyranopyrandiones and 1,2-teraryls from 2*H*-pyran-2-ones. *Tetrahedron Letters* **2005**, 46(30), 5025-5027.
9. Sharon, Ashoke; **Pratap, Ramendra**; Vatsyayan, R.; Maulik, P. R.; Roy, U.; Goel, A.; Ram, Vishnu J. 6-Aryl-4-methylsulfanyl-2*H*-pyran-2-one-3-carbonitriles as PPAR- γ activators. *Bioorganic & Medicinal Chemistry Letters* **2005**, 15(14), 3356-3360.
10. **Pratap, Ramendra**; Kumar, R.; Maulik, P.R.; Ram, Vishnu J. A non-catalytic regioselective approach to the synthesis of (*E*)-stilbenes from suitably functionalized 2*H*-pyran-2-ones. *Tetrahedron Letters* **2006**, 47, 2949-2952.
11. Sil, D.; **Pratap, Ramendra**; Kumar, R.; Maulik, P.R.; Ram, Vishnu J. Unusual sulfanylation through ring transformation of arene-tethered 2*H*-pyran-2-ones by *in situ* built Michael adduct *Tetrahedron Letters* **2006**, 47, 3759-3762.
12. **Pratap, Ramendra**; Brijesh Kumar.; Ram, Vishnu J. Substituent induced regioselective synthesis of 1,2-teraryls and pyrano[3,4-*c*]pyran-4,5-diones from 2*H*-pyran-2-ones *Tetrahedron* **2006**, 62(34), 8158-8163.
13. **Pratap, Ramendra**; Ram, Vishnu J. A regioselective synthesis of aryl substituted arylacetates through ring transformation by ethyl levulinate *Tetrahedron Letters* **2006**, 47, 5389-5391.
14. **Pratap, Ramendra**; Kushwaha, S. P.; Goel, A.; Ram, V. J. An efficient synthesis of (*E*)-(2-arylpyrazino[1,2-*a*]pyridine-4-ylidene)acetonitriles and cyanomethyl appended pyrimidines *Tetrahedron Letters* **2007**, 48, 549-553.
15. **Pratap, Ramendra**; Roy, A. B.; Roy Raja and Ram, V. J. A novel synthesis of aryl tethered imidazo[4,5-*b*]pyrazine-2-ones through in situ ring construction and contraction *Tetrahedron Letters* **2007**, 48, 1281-1285.
16. **Pratap, Ramendra**; Ram, V. J. An efficient and versatile route to the synthesis of 9,10-dihydro-3-formylphenanthrenes *Tetrahedron Letters* **2007**, 48, 1715-1719.
17. **Pratap, Ramendra**; Ram, V. J. A non-catalytic approach to the synthesis of 5,6-dihydrobenzo[*h*]quinolines *Tetrahedron Letters* **2007**, 48, 2755-2759.
18. **Pratap, Ramendra**; Rishi Kumar, P. R. Maulik, Ram, V. J. Versatility of 2-oxobenzo[*h*]chromene for the synthesis of oxabenzo[*c*]chrysenes *Tetrahedron Letters* **2007**, 48, 3311-3314.
19. **Pratap, Ramendra**; Ram, V. J. 2-Oxobenzo[*h*]Chromene: A novel Entry for the concise and efficient synthesis of indeno[1,2-*c*]-phenanthrenes *Tetrahedron Letters* **2007**, 48, 4379-4382.
20. **Pratap, Ramendra**; Farahanullah; Raghunandan R.; Maulik P. R.; Ram, V. J. Substituent directed regioselective synthesis of 2-oxonicotonic acids and methyl nicotines *Tetrahedron Letters* **2007**, 48, 4939-4942.

21. **Pratap, Ramendra**; Ram, V. J. 2-Oxobenzo[h]chromene: A novel entry for the synthesis of functionalized angular polycyclic azaarenes *Tetrahedron Letters* **2007**, 48, 5039-5042.
22. **Pratap, Ramendra**; Ram, V. J. An efficient and novel approach to the synthesis of tetrahydrophenanthro[4,3-b]thiophenes *Tetrahedron Letters* **2007**, 48, 4715-4718.
23. **Pratap, Ramendra**; Ram, V. J. An efficient de novo synthesis of partially reduced phenanthrenes through C-C insertion *J. Org. Chem.* **2007**, 72, 7402-7405.
24. **Pratap, Ramendra**; Ram, V. J. Acetyltrimethylsilane mediated synthesis of dihydrophenanthrenes *Tetrahedron Letters* **2007**, 48, 6318-6320.
25. **Pratap, Ramendra**; Kumar, Brijesh; Ram, V. J. An efficient substituent dependent synthesis of congested pyridines and pyrimidines *Tetrahedron* **2007**, 63, 10309-10319.
26. **Pratap, Ramendra**; Roy, A. B.; Kushwaha, S. P.; Goel, A.; Roy, Raja; Ram, V. J. Guanidine and amidine mediated synthesis of bridgehead triazaphenalenenes, pyrimidines and pyridines through domino reactions *Tetrahedron Letters* **2007**, 48, 5845-5849.
27. **Pratap, Ramendra**; Kumar Brijesh; Ram, V. J. Synthesis of arylated highly congested indans using a domino sequence *Tetrahedron* **2007**, 63, 10300-10319.
28. **Pratap, Ramendra**; Raghunandan R., Maulik P. R., Ram, V. J. An unusual synthesis of tetrahydrobenzo[f]isoquinolines *Tetrahedron Letters* **2007**, 48, 7982-7985.
29. **Pratap, Ramendra**; Ram, V. J. Synthetic potential of 2-oxobenzo[h]chromene for the construction of polycyclic azaheteroaromatics with a steroid-like skeleton *Tetrahedron Letters* **2007**, 48, 8547-8549.
30. **Pratap, Ramendra**; Ram, V. J. Synthesis of partially reduced ferrocenylphenanthrenes from 2-oxobenzo[h]chromenes through C-C insertion *Tetrahedron Letters* **2007**, 48, 394-396.
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32. **Pratap, Ramendra**; Ram, V. J. A substituent directed regioselective synthesis of aryl/pyronyl pendant unusual adipate and tetrahydronaphthalene *Tetrahedron Letters* **2008**, 49, 3011-3014.
33. **Pratap, Ramendra**; Ram, V. J. Economical synthesis of novel class of heteroatom containing partially reduced polycyclic aromatic hydrocarbons *Tetrahedron Letters* **2009**, 50, 2805-2807.
34. **Pratap, Ramendra**; Ram, V. J. An efficient non-catalytic, regioselective approach to the synthesis of angularly fused polycyclic systems *Tetrahedron Letters* **2009**, 50, 4239-4242.
35. **Pratap, Ramendra**; Raghunandan R., Maulik P. R., Ram, V. J. A convenient synthesis of partially reduced benzo[c]phenanthrenes, its ketals and ketones *Tetrahedron* **2010**, 66, 1458-1464.
36. **Pratap, Ramendra**; Parrish, Damon; Gunda, Padmaja and Lakshman, Mahesh K. Influence of Biaryl Phosphane Structure on C-N and C-C Bond Formation *J. Am. Chem. Soc.*, **2009**, 131, 12240-12249.
37. Goel, Atul; Verma, D.; Pratap, Ramendra; Taneja, G.; Hemberger, Y.; Knauer, M.; Raghunandan, R.; Maulik, P. R.; Ram, V. J.; Bringmann, G., Partially Hydrogenated 7-Oxa[5]helicenes and [5]Helicenes: Synthesis, Structures, and Dynamics *Eur. J. Org. Chem.* **2011**, 16, 2940. (Impact factor- 3.206)

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39. Lakshman, Mahesh K.; Deb, A. C.; Chamala, R. R.; Pradhan, P.; **Pratap, Ramendra**, Direct Arylation of 6-Phenylpurine and 6-Arylpurine Nucleosides by Ruthenium-Catalyzed C-H Bond Activation *Angew. Chem. Int. Ed.*, **2011**, 50, 2011, 11264. (**Impact factor- 12.730**)
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41. Maurya, H. K.; Gautam, S. K.; **Pratap, R.**; Tandon, V. K.; Kumar, A.; Bajpai, V.; Kumar, B.; Ram, V. J. Sequential approach to the synthesis of 'U and Z' shaped polycyclic heteroarenes *Org. Biomol. Chem.*, **2012**, **10**, 4977-4986.
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47. Kumar, S.; Pratap, R.; Kumar, A.; Kumar, B.; Tandon, V. K.; Ram, V. J. Direct alkenylation of indolin-2-ones by 6-aryl-4-methylthio-2H-pyran-2-one-3-carbonitriles: a novel approach *Beilstein J. Org. Chem.*, **2013**, 2013, 9, 809-817.
48. Kumar, S.; Pratap, R.; Kumar, A.; Kumar, B.; Tandon, V. K.; Ram, V. J. Synthesis of Dibenzo[*d,f*]diazepinones and Alkenylindolinones through ring transformation of 2H-pyran-2-ones with indolin-2-ones *Tetrahedron*, **2013**, 69, 4857.
49. Sahu, S. N.; Gupta, M. K.; Jadhav, T.; Yadav, P.; Singh, S.; Misra, R.; **Pratap, Ramendra** Substituent dependent tunable fluorescence in thieno[3,2-*c*]pyrans *RSC Adv.*, **2014**, **4**, 56779-56783.
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51. Singh, S.; Yadav, P.; Sahu, S. N.; Sharon. A.; Kumar, B.; Ram, V. J.; **Pratap, R.** One pot synthesis of arylated benzo[*h*]quinolines, *Synlett*, **2014**, 25, 2599-2604.
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55. Singh, S.; Yadav, P.; Sahu, S. N.; Althagafi, I.; Kumar, A.; Kumar, B.; Ram, V. J.; **Pratap, R.** Synthesis of 1-amino-2-aryl/acetylnaphthalenes through base mediated one pot inter and intramolecular C-C bond formation strategy *Org. Biomol. Chem.*, **2014**, 4730-4737.
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63. Gautam, S. K.; Maurya, H. K.; Pratap, R.; Kumar, B.; Kumar, A.; Tandon, V. K.; Ram, V. J. Strategy to Construct Stair-Shaped Partially Reduced Naphtho[1,2-b]pyrano[2,3-d]oxepines and Dinaphtho[1,2-b,d]oxepines *J. Heterocycl. Chem.* **2016** *53*, 2070.
64. Sahu, S. N.; Singh, S.; Shaw, R.; Shally; Ram, V. J.; **Pratap, R.** One-pot and step-wise regioselective synthesis of

thieno[3,2-c]pyridin-4-ones RSC Adv. **2016**, 6, 85515.

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66. Singh, S; Reddy, T. S.; Panwar R.; Misra, R.; **Pratap, R.** 2-(2,2-Bis-benzylamino-1-cyano-vinyl)-benzonitrile: A Selective Turn-off Fluorescent Cu²⁺ Sensor Chemistry Select **2016**, 1, 2576 – 2580.
67. Singh, S; Shally; Shaw, R.; Yadav.R.; Kumar, A.; **Pratap, R.** Microwave directed metal-free regiodivergent synthesis of 1,2-teraryls and study of supramolecular interactions RSC Adv., **2016**, 6, 1557-1564.
68. Panwar, R.; Singh, S.; Shally, Yadav, P.; Shaw, R.; **Pratap, R.** Synthesis of Partially Reduced Imidazo[1,2-a]pyridines through an Unprecedented Base-Mediated (4+2) Cyclization Synlett, **2017**, 28, 819.
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- synthesis of multifunctional thiomethylated-benzenes from aryl/heteroaryl/cyclopropyl methyl ketones *Tetrahedron*, **2020**, 76, 131183.
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 90. A Elagamy, I Althagafi, R Pratap, Step-wise and one-pot synthesis of highly substituted conjugated trienes from 2-oxobenzo [h] chromenes/2 H-pyran-2-ones, *Organic & Biomolecular Chemistry*, **2021**, 19, 3901-3910
 91. K Bhattacharyya, V Nemaysh, M Joon, R Pratap, M Varma-Basil, M Bose, ...Correlation of drug resistance with single nucleotide variations through genome analysis and experimental validation in a multi-drug resistant

clinical isolate of <i>M. tuberculosis</i>, BMC microbiology, 2021, 20 (1), 1-14. 92. Shaw, R.; Pratap, R. A green and base free arylation of thiomethylated 2-pyranones and ketene dithioacetals <i>via</i> Liebeskind-Srogl coupling in water <i>Asian J. Org. Chem.</i> 2022, Accepted. 10.1002/ajoc.202200078 93. Amr Elagamy, Laila K. Elghoneimy, Reem K. Arafa and Ramendra Pratap Synthesis of functionalized flavones from 2-(methylthio)-4H-chromen-4-ones, Tetrahedron Letters, 2022, 100, 153882. 10.1016/j.tetlet.2022.153882
Recent Publications
1. Shaw, R.; Pratap, R. A green and base free arylation of thiomethylated 2-pyranones and ketene dithioacetals <i>via</i> Liebeskind-Srogl coupling in water <i>Asian J. Org. Chem.</i> 2022, Accepted. 2. Elagamy, A.; Elghoneimy, LK.; Arafa, RK.; Pratap, R. Synthesis of functionalized flavones from 3-halo-2-(methylthio)-4H-chromen-4-ones Tetrahedron Letters, 2022, 100, 153882. 3. Shaw, R.; Elagamy, A.; Althagafi, I.; Srivastava, A. K.; Pratap, R. Multi-component Reactions for the Synthesis of Biologically Relevant Molecules Under Environmentally Benign Conditions <i>Curr. Org. Chem.</i>, 2021, 25, 2331. 4. Dwivedi, G. R.; Rai, R.; Pratap, R.; Singh, K.; Pati, S.; Sahu, S. N.; Kant, R.; Darokar, M. P.; Yadav, D. K. Drug resistance reversal potential of multifunctional thieno [3, 2-c] pyran via potentiation of antibiotics in MDR <i>P. aeruginosa</i> <i>Biomed. & Pharmacotherapy</i>, 2021, 142, 112084. 5. Elagamy, A.; Shaw, R.; Shah, C.; Pratap, R. Iodine-Mediated Synthesis of 2-(Methylthio)-4 H-chromen-4-ones and Study of Their Halogenation Reactions <i>The Journal of Organic Chemistry</i>, 2021, 86, 9478. 6. Yadav, P.; Kumar, A.; Althagafi, I.; Nemaysh, V.; Rai, R.; Pratap, R. The Recent Development of Tetrahydro-Quinoline/Isoquinoline Based Compounds as Anticancer Agents <i>Current Topics in Medicinal Chemistry</i>, 2021, 21, 1527. 7. Elagamy, A.; Althagafi, I.; Pratap, R. Step-wise and one-pot synthesis of highly substituted conjugated trienes from 2-oxobenzo[h]chromenes/2H-pyran-2-ones <i>Org. Biomol. Chem.</i>, 2021, 19, 3901-3910 8. Shah, C.; Yadav, P.; Althagafi, I.; Shaw, R., Elagamy, A. Base mediated synthesis of functionalized 2-(alkynyl) aryl nitriles and their molecular docking study with aromatase receptor <i>Org. Biomol. Chem.</i>, 2021, 19, 6276 9. Singh, D.; Aggarwal, S.; Singh, V. K.; Pratap, R.; Mishra, A. K.; Tiwari, A. K. Lanthanide (Ln³⁺) complexes of bifunctional chelate: Synthesis, physicochemical study and interaction with Human Serum Albumin (HSA), <i>Spectrochim. Acta Part A: Mol. Biomol. Spectroscopy</i>, 2021, 244, 118808.
Conference Organization/ Presentations (in the last three years)
Conference Attended: 5
Research Projects (Major Grants/Research Collaboration)

<i>R and D Grant from IoE University of Delhi</i> <i>CSIR Project (Major) 15 Lac and One Student</i> <i>UGC Project (Major) 6-36 Lac</i> <i>DST Project (Major) 21.9 Lac + overhead</i> <i>CSIR Project (Major) 12.5 Lac and One Research Associate</i> <i>ICMR Project (Major) 10 Lacs and one Scientist C</i>
Awards and Distinctions
Alexander von Humboldt fellow JSPS invitation fellowship (May 2016-March 2017)
Association With Professional Bodies
1. <i>Reviewing: Arkivoc, Tetrahedron Letters, Bentham Journals, Bioorg. Med. Chem, Bioorg. Med. Chem Lett, J. Org. Chem., Org. Lett. etc</i> 2. <i>Memberships: Royal Society of Chemistry, Indian Science Congress</i> 3. <i>Life member Indian Science Congress</i>
Other Activities
Elected AC member second term

Signature of Faculty Member

- You are also requested to also give your complete resume as a DOC or PDF file to be attached as a link on your faculty page.