Faculty Details proforma for DU Web-site

Title	Prof./Dr./Mr./Ms./ Mrs.	First Name	Ramendra	Last Name	Pratap	Photograph
Designation		**Assist Prof.**				
Address		*D-118, Green vally Apartment* *Sector-18 Rohini, Delhi-110089*				
Phone No	Office	*Tel: +911127666646 ext 178*				
	Residence					
	Mobile					
Email		**ramendrapratap@gmail.com, rpratap@chemistry.du.ac.in**				
Web-Page						

Educational Qualifications

Degree	Institution	Year
Ph.D.	Central Drug Research Institute (RML Avadh University Faizabad)	**2007**
M.Phil. / M.Tech.		
PG	DDU Gorakhpur University Gorakhpur, (U.P.) India	**2001**
UG	DDU Gorakhpur University Gorakhpur, (U.P.) India	**1999**
Any other qualification		

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 2*H*-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 1nd 2013**
2. **Serve as Deputy supertendent central evaluation examination 2013 (summer)**
3. **Served as observer for Delhi University examination**

Areas of Interest / Specialization

Organic Chemistry

Subjects Taught

Organic Chemistry
Ist Semester- Reactive Intermediates, Stereochemistry
IInd Semester: Spectroscopic technique for identication of Organic compounds, Methods in Organic Synthesis

Research Guidance

List against each head (If applicable)

1. *Supervision of awarded Doctoral Thesis -One*
2. ***Supervision of Doctoral Thesis, under progress -4***
3. *Supervision of awarded M.Phil dissertations -nil*
4. *Supervision of M.Phil dissertations, under progress-nil*

Publications Profile

List against each head(If applicable) (as Illustrated with examples)

1. *Books/Monographs (Authored/Edited)*
2. *Research papers published in Refereed/Peer Reviewed Journals*

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-1*H*-pyrroles in SLM and STZ models. *Bioorganic & Medicinal Chemistry Letters* 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 2*H*-pyran-2-ones. *Tetrahedron Letters* **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 2*H*-pyran-2-ones. *Synlett* **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. *Tetrahedron Letters* **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. *Bioorganic & Medicinal 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 *2H*-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 nicotinates *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 triazaphenalenes, 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.
31. Gupta, V. P.; Khartad, P.; Mishra, S.; **Pratap, Ramendra;** Ram, V. J. *Ab initio* and experimental studies on structure and vibrational spectra of some partially reduced benzo[*c*]phenanthrenes *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* .**2008**, 82-101.
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**)
38. 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, 11400-11404. (**Impact factor- 12.730**)

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**)
40. Maurya, Hardesh K.; Pratap, Ramendra; Tandon, Vishnu K.; Mishra, p.; Kumar, B.; Ram, V. J., Oxaheterocycles: Di- and Trioxabenzo[3,4]cyclohepta[1,2-a]naphthalene-6,7-diones and Dibenzo[a,c]cycloheptene-3-carbonitriles, *Heterocycle*, **2012**, *84*, 555-567. (**Impact factor- 1.093**)
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.
42. **Pratap, Ramendra**; Raghunandan, R.; Kumar, A.; Ram, Vishnu Ji, Bicyclic ketone mediated synthesis of oxygenated aromatic systems *RSC Adv.*, **2012**, **2**, 2688-2691.
43. Pratap, Ramendra; Raghunandan, R.; Maulik, P. R.; Vishnu Ji, Naphtho[2,1-*h*]isoquinolines: a new class of partially reduced polycyclic aromatic nucleus, *RSC Adv.*, 2012, 2, 1299-1302.
44. Pratap, Ramendra; Kumar, A.; Pick, Rigoberg; Hüch, Volker; Ram, Vishnu Ji, Metal-free synthesis of nitrile based partially reduced thia-and oxa-thia[5]helicenes: conformation and dynamics, *RSC Adv.*, **2012**, **2**, 1557-1564.
45. Maurya, H. K.; **Pratap, R.;** Kumar, A.; Kumar, B.; Hüch, V.; Tandon, V. K.; Ram, V. J. A carbanion induced ring switching synthesis of spiranes: an unprecedented approach *RSC Adv.*, **2012**, **2**, 9091-9099.
46. Singh, P.; Agrawal, S.; Tiwari, A. K.; Pratap, R.; Mishra, A. K. Design, Synthesis and biological evaluation of catecholamine vehicle for studying dopaminergic system Chem. Biol. & Drug Design **2013**, Accepted
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**, Accepted.
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.**
50. Singh,S.; Althagafi, I.; Yadav, P.; Panwar, R.; Kumar, A.; **Pratap, R.** Base mediated synthesis of α-aminated aroyl/acetylnaphthalenes through [4+2] annulations, *Tetrahedron*, **2014**, 70, 8879.
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.
52. **Pratap, R.**; Ram, V. J.; Natural and Synthetic Chromenes, Fused Chromenes and Versatility of Dihydrobenzo[h]chromenes in Organic Synthesis, *Chem. Rev.*, **2014**, 2014, 114, 10476.

53. Singh, P.; Agrawal, S.; Tiwari, A. K.; Kumar, V.; **Pratap, R**.; Chuttani, K.; Mishra, A. K. Bis(Methylpyridine)-EDTA Derivative as a Potential Ligand for PET Imaging: Synthesis, Complexation and Biological Evaluation *Chem. Biol. & Drug Design* **2014**, DOI: 10.1111/cbdd.12366.

54. Maurya, H. K.; Gautam, S. K.; Pratap, R.; Tandon, V. K.; Kumar, A.; Kumar, B.; Saxena, S.; Tripathi, D.; Rajwanshi, M.; Das,M.; Ram, V. J. Regioselective synthesis of polycyclic aza-oxa and aza-oxa-thia heteroarenes as Colo-205 and HepG2 carcinoma cells growth inhibitors *European Journal of Medicinal Chemistry*, ***2014,*** *81,* 367-377.

55. Singh,S.; Yadav, P.; Sahu, S. N.; Althagafi, I.; Kumar, A.; Kumar, B.; Ram, V. J.; **Pratap, R.** Synthesis of 1-amino-2-aroyl/acetylnaphthalenes through base mediated one pot inter and intramolecular C-C bond formation strategy *Org. Biomol. Chem.*, **2014**, 4730-4737**.**

56. Yadav, P.; Singh,S.; Sahu, S. N.; Hussain, F.; **Pratap, R.** Microwave assisted base dependent regioselective synthesis of partially reduced chromenes, isochromenes and phenanthrenes *Org. Biomol. Chem.*, **2014**, **12**, 2228-2234.

3. *Research papers published in Academic Journals other than Refereed/Peer Reviewed Journals*
4. *Research papers published in Refereed/Peer Reviewed Conferences*
5. *Research papers Published in Conferences/Seminar other than Refereed/Peer Reviewed Conferences*
6. *Other publications (Edited works, Book reviews, Festschrift volumes, etc.)*

Conference Organization/ Presentations (in the last three years)

List against each head(If applicable)

1. *Organization of a Conference*
2. *Participation as Paper/Poster Presenter: 6*

Research Projects (Major Grants/Research Collaboration)

R and D Grant from University of Delhi
CSIR Project (Major) 15 Lac and One Student
UGC Project (Major) 6-36 Lac
DST Project (Major) 21.9 Lac + overhead

Awards and Distinctions

Alexander von Humboldt fellow

Association With Professional Bodies

1. *Editing*
2. *Reviewing: Arkivoc, Tetrahedron Letters, Bentham Journals, Bioorg. Med. Chem, Bioorg. Med. Chem Lett etc*
3. *Advisory:* ***SHARE Journal of Multidisciplinary Research and Studies***
4. *Committees and Boards: Associate Editor of OJMC (Hindawi Journal)*
5. *Memberships: Royal Society of Chemistry, Indian Science Congress*
6. *Office Bearer*

Other Activities