




Faculty Details proforma for DU Web-site

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cc: director@ducc.du.ac.in)

Title	First Name	Pratibha Mehta	Last Name	Luthra	Photograph
Designation	Associate Professor				
Address	Dr. B.R. Ambedkar Centre for Biomedical Research University of Delhi Delhi 110007 India				
Phone No Office	011-27662778				
Residence	177 SFS Flats Dr Mukherjee Nagar Delhi				
Mobile	9971190193				
Email	pmlsci@yahoo.com				
Web-Page					
Educational Qualifications					
Degree	Institution			Year	
Ph.D. Chemistry Central Drug Research	Institute, Lucknow (UP), India			1987	
M.Phil. / M.Tech. - PG	Organic Chemistry Meerut University (UP), India			1981	
UG Chemistry, Zoology, Botany	Meerut University (UP), India			1978	
Any other qualification B.Ed. LL.B Biochemistry Graduate course (820 and 821, 6 credits), in (850, 2 credits)	Meerut University (UP), India Lucknow University (UP), India Biochemistry & Molecular biology Techniques University of Nebraska, Omaha, NE, USA			1979 1983-1985 1991-92	
Career Profile					
Post Doctoral Fellow (SERC)	University of Liverpool, U.K.			1987-1988	
Post Doctoral Fellow (UPJOHN)	University College London, U.K.			1988-1990	
Post Doctoral Fellow (NCI)	Eppley Institute, Omaha, NE, USA			1990-1993	
Pool Officer	CIMAP, Lucknow (UP), India			1994-1997	
Associate Professor	Dr BR Ambedkar Centre for Biomedical Research			1997 till date	
Administrative Assignments					
<p>Administrative experience: Since the inception of M.Sc. Ph.D. combined Degree program in 1997 at Dr. B. R. Ambedkar Center for Biomedical Research, University of Delhi, I have been involved in formulation of syllabus for various courses including theory and practical course, with internal and visiting faculty members leading to the beginning of this course in 1998. The purchase and installation of various equipments was carried during subsequent years to establish M.Sc.</p>					

practical laboratories and development of Research facilities in the department.

Administrative Responsibilities:

Member- Governing Body, ACBR

Member-Course Committee

Chairperson- AMC committee, ACBR

Deputy Superintendent Examination, BMS

Radiation Safety Officer, ACBR

Member Secretary -Institutional Animal Ethical Committee since 2016

In-charge Animal House facility

In-charge NMR facility (400 MHz, Bruker) ACBR)

Areas of Interest / Specialization

Research in my laboratory focuses on i) the study of the signaling pathways in brain to explore the nNOS mediated oxidative stress leading to neurodegeneration in brain for design and development of new neuroprotecting agents and ii) discovery of new chemical entities (NCE) in the therapy of Parkinson's disease (PD) through adenosine A2ARs. iii) The work also involves to explore the molecular pathways in the pathology of GBM, which may reveal multiple targets for the treatment of GBM to address drug resistance and provide specificity and selectivity in cancer chemotherapy.

The research tools in my laboratory include- Bioinformatics:ligand based and structure based drug design, virtual screening, protein structure prediction, synthesis of NCE and their isolation from plants, In vitro screening of NOS inhibitors using the mammalian expression clones of human eNOS, iNOS and nNOS expressed in HEK cell lines, and adenosine A2A receptor antagonists in stably transfected in SKNSH/ SHSY5Y or primary neuronal cells isolated from E18 rats / The anticancer activity of the compounds and their molecular mechanism (receptor, oxidative and cell cycle mediated) was studied in human glioma U87 cell line. The in vivo study with 6-OHDA induced Parkinson Model in rats.. The anticancer potential with xenograft in vivo model of glioblastoma by injecting U87 MG cells in non immunosuppressed mice (subcutaneous and intracranial).

Subjects Taught

Teaching duties 1998-2012

Organic Chemistry (MBS 101, 201)	Sem I and II
Medicinal Chemistry (MBS 302, 404)	Sem III and IV
Pharmacology (MBS 305, 408)	Sem III and IV
Instrumentation(MBS 303)	Sem III
Biochemistry (MBS 102)	Sem I (till 2009) the course is not offered.

Time table of the subjects taught during the current semester

S.No.	Subject	Days	Time	Classroom
1	Organic Chemistry	Tuesday	12:00-13:00	1
2.	Medicinal Chemistry	Tuesday Wednesday	10:00-11:00 12:00-13:00	2
3.	Pharmacology	Thursday Friday	11:00-12:00 10:00-11:00 11:00-12:00	2
4.	Instrumenta-tion	Monday	10:00-11:00	2

Research Guidance

List against each head (If applicable)
Supervision of awarded Doctoral Thesis

i) Awarded Doctoral Dissertations

1. *Rambir Singh (Awarded 2004)* *SYSTEMATIC INVESTIGATION OF CURCUMA LONGA (TURMERIC):ISOLATION, PURIFICATION AND CHARACTERIZATION OF SESQUITERPENOID COMPOUNDS ACTIVE AGAINST PATHOGENIC BACTERIA*
2. *Surbhi Sharma (Awarded 2004)* *PROTEOMICS APPROACH FOR MOLECULAR CHARACTERIZATION OF BIOCHEMICALLY ACTIVE MOLECULES OF Pseudomonas fluorescens*
3. *Vimal Kishore Singh (Awarded 2006)* *FUNCTIONAL EVALUATION OF HEMOPOITIC STEM CELLS SPECIFIC ANTIGEN CD 34 BY GENETIC ENGINEERING AND GENE TRANSFECTION*
4. *Raj Kumar (Awarded 2009)* *ANALYSIS OF THE HOST CELLULAR RESPONSES INDUCED BY A BACTERIAL TOXIN*
5. *Sandeep Kumar (Awarded 2010)* *MOLECULAR INTERACTION OF ADENOSINE A2A RECEPTOR ANTAGONISTS AS POTENTIAL ANTI-PARKINSONIAN AGENTS*
6. *Rakesh Kumar (Awarded 2011)* *STUDY THE MOLECULAR MECHANISM OF CHEMOPREVENTIVE AND CHEMOPROTECTIVE ACTIVITY OF CURCUMIN, A*

NATURAL PRODUCT FROM *curcuma longa*

7. Satendra Singh (Awarded 2012) PROTEOMICS APPROACH FOR MOLECULAR
CHARACTERIZATION OF TYROSINE HYDROXYLASE AND
TARTRATE RESISTANT ACID PHOSPHATASE FROM *MUCUNA*
PRURIENS. L. DC
8. Amresh Prakash (Awarded 2012) INSILICO EXPLORING THE MOLECULAR TARGET IN
ETIOLOGY OF PARKINSON'S DISEASE
9. Chandra Bhushan Mishra *SYNTHESIS OF NITROGEN AND SULPHUR*
(Awarded 2013) HETEROCYCLES ACTING ON CENTRAL NERVOUS SYSTEM
10. Rita Kumari (Awarded 2014) MOLECULAR PATHOLOGY OF PARKINSON'S
DISEASE
11. J.B.Senthil Kumar (Awarded 2014) SYNTHESIS OF ERGOLINE BASED NOVEL
DOPAMINERGICS: *IN-VITRO* RECEPTOR BINDING
AND *IN-VIVO* PHARMACOLOGY USING 6-OHDA
RAT MODEL OF PARKINSON'S DISEASE
12. Vishal Nemeys IN SILICO APPROACHES TO STUDY THE ROLE OF
(Awarded 2016) PLATELET DERIVED GROWTH FACTOR RECEPTOR (PDGFR) IN
ACUTE FORM OF GLIOBLASTOME FOR THE DEVELOPMENT OF
NOVEL THERAPEUTICS
13. Neetika Lal (Awarded 2017) *STUDY THE MOLECULAR MECHANISM OF VARIOUS ANTI-
CANCER DRUGS IN VIVO MODELS OF GLIOBLASTOMA
MULTIFORME*
13. Namarata Kumari (Submitted 2017) *STUDY THE NEUROPROTECTION ROLE OF A2AR
USING IN VITRO AND IN VIVO MODEL OF PARKINSON'S*

DISEASE

14. Nitin Vishnoi (submitted 2018) SYNTHESIS OF SUBSTITUTED PYRIDO INDOLES
POLYHYDROXY PHENOLS AS NOVEL ANTICANCER
AGENTS

Doctoral Dissertation under progress

Saurabh Agarwal (2013) SYNTHESIS AND PHARMACOLOGICAL EVALUATION OF
NOS INHIBITORS

Dimpy Sharma (2014) SYNTHESIS OF ALLOSTERIC MODULATORS

Sophronea Tuithung (2017) "STUDY THE MECHANISM OF NEURO-PROTECTION USING
PARKINSON'S DISEASE MODEL OF
NEURODEGENERATION."

Publications Profile

RESEARCH PUBLICATIONS

1. Synthesis of substituted pyrido [3,4-b] indoles-3-carboxamides and related compounds as benzodiazepine receptor agonist and antagonists. **Pratibha Mehta**, A. K. Saxena, A. Gulati, and Nitya Anand: **Indian J. Chemistry B**, 27, 140-143, **1988**. ISSN 0376-4699.

2. Synthesis of *cis* and *trans*-1-substituted-1,2,3,4,4a,5,6,11a-octahydro-6H-pyrido [3,2-b]carbazoles, 4-substituted-1,2,3,4,4a,5,6,11c-octahydro-7Hpyrido [2,3-c]carbazole, *cis*-methyl-1,2,3,4,4a,5,6,12-octahydro-7H-pyrido[2,3-c]acridine and *cis*-1-methyl-2,3,4,4a,5,12,12a-octahydro[3,2-b]acridine, A new class of anti-Parkinsonian agents. Pratibha Mehta, Y. Kumar, A.K. Saxena, A. Gulati, H. K. Singh and Nitya Anand; **Indian J. Chemistry**, 30 (2), 213-221, **1991**. ISSN 0376-4699

3. A convenient method to synthesize N [³ H]methyl-N-nitrosocarbamate transfer reagents. Pratibha Mehta, T. Konakahara and B. Gold; Journal of **Labeled Comp. and Radiopharm.** 31 (11), 925-931, **1992**. ISSN 0362-4803

4. Groove and sequence selective alkylation of DNA by sulfonate esters tethered to Lexitropsins, Y. Yhang, Fa-Xian, Pratibha Mehta and B. Gold, **Biochemistry**, 32 7954-7965, **1993**. ISSN · 0006-2960

5. The design of agents to control DNA methylaton adducts. Enhanced major groove methylation of DNA by an N-methyl-N-nitrosoureas functionalised phenylneutral red intercalator. Pratibha Mehta , K. Church, J. Williams F-X Chen, L. Encell, D.E.G. Shuker and B. Gold; **Chemical Res. Toxicol**, 9(6) 939-948, **1996**. . ISSN 0893-228X

6. Inhibitors of Tripeptidyl peptidase II.2. Generation of first novel lead inhibitor of cholecystokinin-8-inactivating peptidase: a strategy for the design of peptidase inhibitors. C. R. Ganellin, P.B.Bishop, R.B. Bambal, S.M.T. Chan, J.K. Law, B. Marabout, Pratibha Mehta Luthra, A.N. J. Moore, O. Peschard, P. Bourgeat, C. Rose, F. Vargas and J-C Schwartz, **J. Med. Chem.**, 43, 664-674, **2000**. ISSN 0022-2623

7. Antibacterial activity of *Curcuma longa* rhizome extract on pathogenic bacteria. R. Singh, R. Chandra, M. Bose, Pratibha Mehta Luthra, **Current Science**, 83 (6), 737-740, **2002**. ISSN 0011-3891

8. Role of proteins in resistance mechanism of *Pseudomonas fluorescens* against heavy metal induced stress with proteomics approach. Sharma S, Luthra PM, Singh Y, Sirdeshmukh R, Gade WN, **J Biotechnol.**, 126(3): 374-82, **2006**. ISSN: 1860-7314

9. cDNA-derived amino acid sequence from rat brain $A_{2a}R$ possesses conserved motifs PMNYM of TM 5 domain involved in dimerization of $A_{2a}R$, Pratibha Mehta Luthra, Sandeep Kumar Barodia, Amresh Prakash, Ramraghubir In **Lecture Notes in Bioinformatics** (LNBI 4774): Pattern Recognition in Bioinformatics, Editors: J. C. Rajapakse, Bertil Schmidt Gwenn Volkert (**Springer**) pp 41-50, **2007**. ISBN: 978-3-540-75285-1

10. Antagonism of haloperidol-induced swim impairment in L-dopa and caffeine treated mice: a pre-clinical model to study Parkinson's disease. Pratibha Mehta Luthra, SK Barodia, and R Raghubir **J Neurosci Methods**, 178(2): 284-90, **2009**. ISSN 0165-0270

11. Demethoxycurcumin induces Bcl-2 mediated G2/M arrest and apoptosis in human glioma U87 cells. Pratibha Mehta Luthra, R Kumar, and A Prakash **Biochem Biophys Res Commun**, 384(4): 420-5, **2009**. ISSN: 0006-291X

12. In silico study of naphtha [1, 2-d] thiazol-2-amine with adenosine A_{2A} receptor and its role in antagonism of

haloperidol-induced motor impairments in mice. 1. Pratibha Mehta **Luthra**, Amresh Prakash, Sandeep Kumar Barodia, Rita Kumari Chandra Bhushan Mishra, J.B. Senthil Kumar **Neuroscience Letters**, 463, 215-218, **2009**.

ISSN 0304-3940

13. Synthesis of novel 7-imino-2-thioxo-3,7-dihydro-2H-thiazolo [4,5-d] pyrimidine derivatives as adenosine A2A receptor antagonists. Luthra PM, CB Mishra, PK Jha, and SK Barodia **Bioorg Med Chem Lett**, Feb 2010; 20(3): 1214-8. **ISSN**:0968-0896

14. Novel 8-(furan-2-yl)-3-substituted thiazolo [5,4-e][1,2,4] triazolo[1,5-c] pyrimidine-2(3H)-thione derivatives as potential adenosine A(2A) receptor antagonists. CB Mishra, SK Barodia, A Prakash, JB Senthil Kumar, and PM Luthra **Bioorg Med Chem**, Apr 2010; 18(7): 2491-500. **ISSN**-09680896

15. High-performance liquid chromatography separation of enantiomers of mandelic acid and its analogs on a chiral stationary phase. R Aneja, PM Luthra, and S Ahuja **Chirality**, May 2010; 22(5): 479-85. **ISSN**: 1520-636X

16. Identification and optimization of tyrosine hydroxylase activity in *Mucuna pruriens* DC. **var. utilis**. PM Luthra and S Singh **Planta**, May 2010; 231(6): 1361-9. **ISSN**: 0032-0935

17. Aqua mediated synthesis of 2-amino-6-benzothiazol-2-ylsulfanyl-chromenes and its in vitro study, explanation of the structure-activity relationships (SARs) as antibacterial agent. M Kidwai, R Poddar, S Bhardwaj, S Singh, and PM Luthra **Eur J Med Chem**, Nov 2010; 45(11): 5031-8. **ISSN** 0009-4374

18. Synthesis of 2-oxo/thioxooctahydroquinazolin-5-one derivatives and their evaluation as anticancer agents. M Kidwai, D Bhatnagar, R Kumar, and PM Luthra **Chem Pharm Bull (Tokyo)**, Jan 2010; 58(10): 1320-3. **ISSN**. 0009-2363

19. Novel 8-(furan-2-yl)-3-benzyl thiazolo [5,4-e][1,2,4] triazolo [1,5-c] pyrimidine-2(3H)-thione as selective adenosine A_{2A} receptor antagonist. SK Barodia, CB Mishra, A Prakash, JB Senthil Kumar, N Kumari, and PM Luthra **Neurosci Lett**, Jan 2011; 488(1): 1-5; ISSN 0304-3940
20. Insilico Study of the A_{2A}R-D₂R Kinetics and Interfacial Contact Surface for Heteromerization. Prakash A, Pratibha Mehta Luthra, **AminoAcids**. 01/2012; 43(4):1451-64 ISSN: 0939-4451
DOI 10.1007/s00726-012-1218-x. 25;
21. [Efficient entry to diversely functionalized spirooxindoles from isatin and their biological activity](#) Mazaahir Kidwai, Arti Jain, Vishal Nemaish, Rakesh Kumar, Pratibha Mehta Luthra, **Med Chem Res** 08/2013; 22(6).
ISSN: 0165-0270; DOI:10.1007/s00044-012-0249-x (Impact Factor: 1.61).
22. One Pot Synthesis of 3,4 Dihydropyridin-2-ones Via Michael Addition of In-situ Generated Enaminones, JB Senthil Kumar, Neeta kumari and Pratibha Mehta Luthra, **Synthetic communication** [Volume 43, Issue 22](#), 2013, pages 3010-3019; ISSN 0039-7911; DOI: 10.1080/00397911.2012.761239
23. Design and Synthesis of (4E)-4-(4-substitutedbenzylideneamino)-3-substituted-2, 3-dihydro-2-thioxothiazole-5-carbonitrile as novel A_{2A} receptor antagonists. Chandra Bhushan Mishra, Dimpy Sharma, Amresh Prakash, Namrata Kumari, Pratibha Mehta Luthra **Bioorg Med Chem**. [Volume 21, Issue 19](#), 2013 Pages 6077–6083. ISSN-09680896
24. 8-(furan-2-yl)-3-phenethylthiazolo[5,4-e][1,2,4]triazolo[1,5-c]pyrimidine-2(3H)-thione as Novel, Selective and Potent Adenosine A_{2A} Receptor antagonist, Namrata Kumari, Chandra Bhushan Mishra, Amresh Prakash, Nitin Kumar, Rajkumar Mongre, and Pratibha Mehta Luthra, **Neuroscience Letters**, Volume 558, 13 January 2014, Pages 203-207 ISSN 0304-3940.
25. An Investigatory Study of functionalized spirooxindoles, M Kidwai, A. Jain, V.Nemeish and Pratibha Mehta Luthra, **Indian J of Chemistry**, 53B, 2014, 399-411.
26. Synthesis and SARs of Coumarin Fused 1,5-benzothiazepines as Novel Anticancer and Antioxidant Agents, M Kidwai, R Poddar, A Jain, Rakesh Kumar and Pratibha Mehta Luthra **Mini-Reviews in Organic Chemistry**, 2015, 12, 000-000

27. Post-lesion administration of 7-NI attenuated motor and non-motor deficits in 6-OHDA induced bilaterally lesioned female rat model of Parkinson's disease, Rita Kumari, JB Senthil Kumar and Pratibha Mehta Luthra *Neuroscience Letters* 589:191-5, 2014

28. Synthesis, biological evaluation and molecular docking study of novel piperidine and piperazine derivatives as multi-targeted agents to treat Alzheimer's disease Poonam Meena, Vishal Nemaish, Manisha Khatri, Apra Manral, Pratibha Mehta Luthra, Manisha Tiwari, **Bioorg Med Chem** 23, 1135-1143, 2015

29. Kumar, J. B. S., Kumari, R., & Luthra, P. M. (2016) Modulation of Indole Ring Annulation in Ergoline Template: Chemistry, Receptor binding and in-vivo Pharmacology with 6-OHDA Model of Parkinson's Disease. *Med. Chem Res.* 25(4), 02/2016 DoI :10.1007/s00044-016-1502-5.

30. Bis ((1, 4-dimethyl-9 H-carbazol-3-yl) methyl) amine-mediated anticancer effect triggered by sequence-specific cleavage of DNA leading to programmed cell death in the human U87 cell line

N Kumar, R Kumar, V Nemaish, N Lal, Pratibha M Luthra, *RSC Advances* 6 (72), 67925-67940. 2016

31. Pharmacological assessments of potent A2A receptor antagonist IDPU (1-(7-imino-3-propyl-2,3-dihydrothiazolo[4,5-d]pyrimidin-6(7H)-yl)urea) in rodent model of Haloperidol induced Parkinson like symptoms. Kumari,, N, Agarwal S & Pratibha M. Luthra *Neuroscience Letters* 647, 53-60 2017.

32. Computational analysis revealing that K634 and T681 mutations modulate the 3D-structure of PDGFR-b and lead to sunitinib resistance, Vishal Nemaish and Pratibha Mehta Luthra *RSC Advance*, 7, 37612, 2017.

33. Demethoxycurcumin mediated targeting of Mn-SOD leading to activation of apoptotic pathway and inhibition of Akt/NF-κB survival signalling in human glioma U87 MG cells, Rakesh Kumar, Neetika Lal, Vishal Nemaish and Pratibha Mehta Luthra , *Toxicology and Applied Pharmacology* DOI 10.1016/j.taap.2018.02.020

34. Neuroprotective effect of IDPU (1-(7-imino-3-propyl-2, 3-dihydrothiazolo [4, 5-d]pyrimidin-6(7H)-yl)urea) in 6-OHDA induced Rodentmodel of hemiparkinson's disease Kumari,, N, Agarwal S, Rita Kumari & Pratibha M. Luthra *Neuroscience Letters* <https://doi.org/10.1016/j.neulet.2018.03.040>

Review Articles:

33. Therapeutic uses of *Curcuma longa* (Turmeric). Pratibha Mehta Luthra, R. Singh and R. Chandra, **Indian Journal of Clinical Biochemistry**, 16 (2), 153-160, 2001. ISSN: 0970-1915

34. Three-dimensional structure prediction of the interaction of CD34 with the SH3 domain of Crk-L. GU Gangenahalli, VK Singh, YK Verma, P Gupta, RK Sharma, R Chandra, S Gulati, and Pratibha Mehta Luthra **Stem Cells Dev**, 14(5): 470-7, **2005**. ISSN: 1547-3287

35. Hematopoietic Stem Cell Antigen CD34: Role in Adhesion or Homing. GU Gangenahalli, VK Singh, YK Verma, P Gupta, RK Sharma, R Chandra, and PM Luthra **Stem Cells Dev**, 15(3): 305-13, **2006**. ISSN: 1547-3287

36. Plausible Improvements for Selective Targeting of Dopamine Receptors in Therapy of Parkinson's Disease, Pratibha Mehta Luthra and JB Senthil Kumar, **Minireview in Medicinal Chemistry**, 2012 Dec;12(14):1556-64; ISSN: 1389-5575.

37. Prospective of curcumin, a pleiotropic signalling molecule from *Curcuma longa* in the treatment of Glioblastoma, Pratibha Mehta Luthra, Neetika Lal **European Journal of Medicinal Chemistry** Volume 109, 15 February 2016, Pages 23–35

General Articles

38. Redefined role of mevalonate-isoprenoid pathway in terpenoid biosynthesis in higher plants. Rajesh Luthra, Pratibha Mehta Luthra and Sushil kumar. **Current Science**, 76 (2),133-135, **1999**. ISSN 0011-3891

39. Unraveling the biosynthesis of Vitamin C in plants. Rajesh Luthra , Pratibha Mehta Luthra and Sushil Kumar. **Current Science** 78, 222- 224. 2000. ISSN 0011-3891

40. Propanthial S-oxide synthase: Potential target to develop flavoursome, nonlachrymatory user friendly onions. Pratibha Mehta Luthra and R. Luthra, **Current Science**, 83 (12), 1439-1440, 2002. ISSN 0011-3891.

41. Sequencing of the malarial parasite genome reveals potential drug targets to combat malaria, Pratibha Mehta Luthra and Rajesh Luthra, **Current Science**, 84, (5), 623-626, **2003**. ISSN 0011-3891 ISSN: 0970-1915.

Book Chapters

42. Antisense oligonucleotides as innovative therapeutic approach to treat ailments. Pratibha Mehta Luthra Eds. Kohli, K.; Gupta M., In Contemporary Perspective of Clinical Pharmacotherapeutics (Elsevier publications): page 70-83, **2005**. ISSN: 0253-7613 EISSN: 1998 3751

43. Cytokines as potential therapeutic targets. S. Kumar, F. Azam, Pratibha Mehta Luthra, In Contemporary Perspective of Clinical Pharmacotherapeutics (Elsevier publications): Eds. Kohli, K.; Gupta M., page 111-123,

2005. ISSN: 0253-7613 EISSN: 1998-3751

44. Gene knockout mice in drug development. **Pratibha Mehta Luthra, J. Singh, R. Kumar, S. Singh In Contemporary Perspective of Clinical Pharmacotherapeutics (Elsevier publications):** , page 124-144, 2005. ISSN: 0253-7613 EISSN: 1998-3751

45. **Herbal remedies for management of Parkinson's disease.** Pratibha Mehta Luthra In Herbal Drugs : A Twenty First Century Perspective, , Eds. R. K. Sharma and R. Arora, Jaypee Brothers Medical Publishers (P) Ltd, New Delhi, page 476, (2006).

46. **Curcuma longa: a Traditional Herb as an Alternative Medicine** Pratibha Mehta Luthra, Rambir Singh, Rakesh Kumar, Jyotsna Singh, Satendra Singh¹ and Rajesh Arora In "Botanical Medicine in Clinical Practice", Ch. 73, page 671-682, 2008. CABI, Wallingford , UK. Watson, R. R. and Preedy, V. R. (eds)

47. **Medicinal Prospects of *Mucuna pruriens*** Pratibha Mehta Luthra,* Satendra Singh, Jyotsna Singh, Rakesh Kumar and Rajesh Arora In "Botanical Medicine in Clinical Practice", C. 83, Watson, R. R. and Preedy, V. R. (eds) CABI, Wallingford , UK, page 746-751, 2008

48. **Chemistry and Biology of Yew (*Taxus spp.*)** Pratibha Mehta Luthra In "Botanical Medicine in Clinical Practice", Ch. 95 Watson, R. R. and Preedy, V. R. (eds) CABI, Wallingford , UK, page 841-848, 2008.

49. **Paradigm of Protein Folding in Neurodegenerative Diseases.** Pratibha Mehta Luthra Proteomics Research Journal Volume 2 #1/2, pp. 289-312 2011, Nova Science Publishers, USA.

PATENTS

50. An Improved Process for the Purification of Bio-active Sesquiterpenoids from *Curcuma longa* by Reverse Phase High Performance Liquid Chromatography, Pratibha Mehta Luthra * and R. Singh, Dr. B.R. Ambedkar center for Dr. B.R. Ambedkar Center for Biomedical Research, University of Delhi, Delhi – 110007, INDIA Indian Patent No. 225387, 2003.

51. Novel thiazolo [4,3-e] 1,2,4-triazolo [1,5-c] pyrimidine and thiazolo [4,3-e] 1,3-imidazo [1,2-c] pyrimidine derivatives and process for preparation thereof; **Inventors** Pratibha Mehta Luthra and C B Mishra. **890 DEL 2009** , Dr. B.R. Ambedkar center for Biomedical Research, University of Delhi, Delhi – 110007

52. A Novel 3-substituted 7-imino-2-thioxo-3, 7-dihydro-2H-thiazolo [4,5-d] pyrimidin-6-yl –amide and process for preparation thereof **Inventors** Pratibha Mehta Luthra and CB Mishra, **2376 DEL 2009** , **European patent WO 2011/061754 A1 ,26-5-2011; US patent WO 2012/0264937 A1 ,13-6-2012** Dr. B.R. Ambedkar center for Biomedical Research, University of Delhi, Delhi – 110007 .

53. Novel thiazolo [4,3-e] 1,3-imidazo [1,2-c] pyrimidine derivatives and process for preparation thereof; Inventors Pratibha Mehta Luthra and CB Mishra. **1240 DEL 2010** , Dr. B.R. Ambedkar center for Biomedical Research, University of Delhi, Delhi –110007 US Patent No. **WOPCT/IN2010/000720** (International Patent filed with CSIR dated 03/11/2010).

54. Design and synthesis of novel (4E)-4-(4-substitutedbenzylideneamino)-3-substituted-2, 3-dihydro-2-thioxothiazolo[4,3-e]pyrimidin-6-yl carbonitrile as A_{2A}receptor antagonist. **Inventors:** Pratibha Mehta Luthra and CB Mishra
Indian patent no. 0204NF2012 (18 DEL 2013). Publication Date : 22/08/2014, **US Patent** Publication number WO2014106861 A1, Application number **PCT/IN2014/000005**, Publication date Jul 10, 2014

Publications in the Last one year

1. Pharmacological assessments of potent A_{2A} receptor antagonist IDPU (1-(7-imino-3-propyl-2,3-dihydrothiazolo[4,5-d]pyrimidin-6(7H)-yl)urea) in rodent model of Haloperidol induced Parkinson like symptoms. Kumari,, N, Agarwal S & Pratibha M. Luthra, **Neuroscience Letters** 647, 53-60 2017.
2. Computational analysis revealing that K634 and T681 mutations modulate the 3D-structure of PDGFR-b and lead to sunitinib resistance, Vishal Nemaish and Pratibha Mehta Luthra **RSC Advance**, 7, 37612, 2017.
3. Demethoxycurcumin mediated targeting of Mn-SOD leading to activation of apoptotic pathway and inhibition of Akt/NF-κB survival signalling in human glioma U87 MG cells, Rakesh Kumar, Neetika Lal, Vishal Nemaish and Pratibha Mehta Luthra , **Toxicology and Applied Pharmacology** DOI 10.1016/j.taap.2018.02.020
4. Neuroprotective effect of IDPU (1-(7-imino-3-propyl-2, 3-dihydrothiazolo [4, 5-d]pyrimidin-6(7H)-yl)urea) in 6-OHDA induced Rodentmodel of hemiparkinson's disease Kumari,, N, Agarwal S, Rita Kumari & Pratibha M. Luthra **Neuroscience Letters** <https://doi.org/10.1016/j.neulet.2018.03.040>

Conference Organization/ Presentations (in the last three years)

Research Projects (Major Grants/Research Collaboration)

Awards and Distinctions
Association With Professional Bodies
Other Activities

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.