

## University Faculty Details Page on MJPRU Web-site



<b>Title</b>	<b>Dr.</b>	<b>First Name</b>	<b>Sharad</b>	<b>Last Name</b>	<b>Panday</b>	<b>Photograph</b>
<b>Designation</b>	Associate Professor & Head					
<b>Department</b>	Applied Chemistry					
<b>Address (Campus)</b>	Department of Applied Chemistry, Faculty of Engineering & Technology, M. J. P. Rohilkhand University, Bareilly					
<b>(Residence)</b>	House No.-8, Type-IV, University Campus, M. J. P. Rohilkhand University, Bareilly					
<b>Phone (Campus)</b>	<b>No</b>	0581-2529138				
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<b>Education : M.Sc., Ph.D.</b>						
<b>Subject</b>		<b>Institution</b>		<b>Year</b>	<b>Details</b>	
Ph.D. ( Chemistry )		Central Drug Research Institute, Lucknow		1992	Thesis topic: Synthesis of Some Potential Cardio-vascular System Active Compounds	
M.Sc. (Chemistry with specialization in Organic Chemistry)		Lucknow University, Lucknow		1987		
B.Sc. (Chemistry, Botany, Zoology)		Lucknow University, Lucknow		1985		
<b>Career Profile</b>						
<b>Organisation / Institution</b>		<b>Designation</b>		<b>Duration</b>	<b>Role</b>	
1. Central Drug Research Institute, Lucknow		Junior Research Fellow		April 1988- March 1990	Research	

2. Central Drug Research Institute, Lucknow	Senior Research Fellow	April 1990-March 1990	Research
3. Ranbaxy Labs Ltd., N. Delhi	Research Scientist	March 1993-August 1993	Research work leading to the development of new Quinolone antibiotics
4. Central Drug Research Institute, Lucknow	Post doctoral fellow	September 1993-December 1993	Research
5. Institut de Chimie` Des Substances Naturelles, CNRS, Gif-sur-Yvette, FRANCE	CNRS Post doctoral fellow	January 1994-December 1995	Research leading to the total synthesis of bioactive natural products
6. Department of Chemistry, Faculty of Engineering & Technology, M. J. P. Rohilkhand University, Bareilly	Lecturer	February 1996-February 2000	Teaching, research & academic administration
7. Department of Chemistry, Faculty of Engineering & Technology, M. J. P. Rohilkhand University, Bareilly	Senior Lecturer	February 2000-September 2002	Teaching, research & academic administration
8. Department of Chemistry, Faculty of Engineering & Technology, M. J. P. Rohilkhand University, Bareilly	Reader	September 2002-December 2005	Teaching, research & academic administration
9. Department of Chemistry, Faculty of Engineering & Technology, M. J. P. Rohilkhand University, Bareilly	Associate Professor	January 2006-till date	Teaching, research & academic administration

### Research Interests / Specialization

Organic Chemistry, Medicinal chemistry, Synthesis of unnatural amino acids, asymmetric synthesis

### Teaching Experience ( Subjects/Courses Taught): 15 years

Chemistry-I(CY-101),[ B. Tech. I Semester]

Chemistry-II( CY-102)[B.Tech II Semester]

Applied Organic Chemistry(CY-201)[ B. Tech. III semester(CH branch)]

Pharmaceutical Organic Chemistry-I[ B. Pharm. I Year]

Pharmaceutical Organic Chemistry-II( Chemistry of Natural Products)[B. Pharm. II Year]

Medicinal Chemistry-I(B. Pharm III Year]

Organic Chemistry-I( M. Sc.-I, Applied Chemistry)

Medicinal Chemistry-II( M. Sc -II, Applied Chemistry)

### Honors & Awards

1. Qualified CSIR/UGC Joint JRF examination in 1988 and awarded JRF
2. Awarded CNRS post doctoral Fellowship of France( January-1994- December 1995)
3. Awarded Scientist Pool of CSIR in 1996( Not availed)
4. Awarded Spanish Govt fellowship at University of Barcelona in 1997( not availed)
5. Awarded Post doctoral fellowship at ICSN, Gif-sur-Yvette, France in 2001( not availed)
6. Elected life member of the Indian Chemical society, Kolkata

### Publications (LAST FIVE YEARS)

#### Books / Monographs: Invited Book Chapter

<u>Year</u>	<u>of</u>	<u>Title</u>	<u>Publisher</u>	<u>Co-Author</u>
2010		Angiotensin converting enzyme inhibitors: A	Nova Science	Jagdish Prasad and

Class of potent enzyme inhibitors; *Advances In Medicines and Biology: Volume 5*(in Press), **Sharad Kumar Panday** Jagdish Prasad and Manohar Bhooshan Pathak  
 Publishers, USA  
 Manohar Bhooshan Pathak

In Indexed/ Peer Reviewed Journals: In last five years

<u>Year of Publication</u>	<u>Title</u>	<u>Journal</u>	<u>Co-Author</u>
2009	(i). Synthesis of N-[3'(acetylthioalkanoyl)] and N-[3'-mercaptoalkanoyl]-4- $\alpha$ (S)- (phenylmethyl) Pyroglutamic acids and Prolines as Potent ACE Inhibitors; <b>Sharad Kumar Panday</b> , Madhu Dikshit and Dinesh Kumar Dikshit; <b>Medicinal Chemistry Research</b> , <u>18</u> , 566(2009)	Medicinal Chemistry Research, <u>18</u> , 566(2009) (Springer publications) (Impact factor:1.01)	Madhu Dikshit & Dinesh Kumar Dikshit
2009	(ii). Synthesis of 2(S),4(S),5(R)-1-acyl-5-arylproline-2,4-dicarboxylicesters; <b>Sharad Kumar Panday</b> , Jagdish Prasad and Dinesh Kumar Dikshit; <b>Journal of Indian Chemical Society</b> , <u>86</u> , 1079 (2009)	Journal of Indian Chemical Society, <u>86</u> , 1079 (2009) (Impact factor:0.4)	Jagdish Prasad and Dinesh Kumar Dikshit
2009	(iii). Pyroglutamic acid: A Unique Chiral Synthon: <b>Sharad Kumar Panday</b> , Jagdish Prasad and Dinesh Kumar Dikshit; <b>Tetrahedron: Asymmetry</b> , <u>20</u> , 1581-1631 (2009)	<b>Tetrahedron: Asymmetry</b> , <u>20</u> , 1581-1631 (2009) [Elsevier, (Impact factor:2.89)] (Selected as top 25 hottest articles of Tetrahedron asymmetry in 2009 and also cited by chem. Inform in based on its citation value)	Jagdish Prasad and Dinesh Kumar Dikshit
	(iv). A Straight Forward and Facile Approach towards the N- derivatization of Pyroglutamates through Mitsunobu Reaction: Synthesis of N-alkyl/ N-acyl	<b>Synthetic Communications</b> ( in press) ( Impact factor: 1.02)	Jagdish Prasad and Manohar Bhooshan Pathak

2010	Pyroglutamates; <b>Sharad Kumar Panday</b> , Jagdish Prasad and Manohar Bhushan Pathak; <b>Synthetic Communications</b> ( in press)	A manuscript communicated to Journal of heterocyclic Chemistry (Impact factor:0.9)	Jagdish Prasad and Manohar Bhushan Pathak
	(v). Acid catalyzed Condensation of Pyroglutamic acid with Aldehydes: Synthesis of (2R, 5S)-2-aryl-1-aza-3-oxa bicyclo [3.3.0] octane-4, 8-dione; <b>Sharad Kumar Panday</b> , Jagdish Prasad and Manohar Bhushan Pathak; (a manuscript communicated to Journal of Heterocyclic Chemistry		
	(vi). An Efficient and Straight Forward Synthesis of (5S)-1-benzyl-5-(1H-imidazol-1-ylmethyl)-2-pyrrolidinone (MM1): A Novel antihypertensive agent; <b>Sharad Kumar Panday</b> , Jagdish Prasad and Manohar Bhushan Pathak, a manuscript communicated to <b>Medicinal chemistry Research</b> ( in Press)( impact factor: 1.01)	Medicinal chemistry research ( in Press) (impact factor: 1.01)	Jagdish Prasad and Manohar Bhushan Pathak
2010			

### Articles

Pyroglutamic acid: A Unique Chiral Synthon: **Sharad Kumar Panday**, Jagdish Prasad and Dinesh Kumar Dikshit; **Tetrahedron: Asymmetry**, **20**, 1581-1631 (2009)

### Conference Presentations: ( in last five years)

- (i). An Efficient Synthesis of (5S)-1-benzyl-5-(1H-imidazol-1-ylmethyl)-2-pyrrolidinone (MM1): A Novel antihypertensive agent; J. Prasad, M. B. Pathak and **S. K. Panday**, **International symposium on "Current trends in Drug Discovery and research"(CTDDR-2010)** held at Central Drug Research Institute, Lucknow, w.e.f. Feb. 17-21, 2010, **Abstract published in Medicinal Chemistry Research, 19, S73-74(2010)**
- (ii). An Efficient and straight forward strategy for the synthesis of 5(S)- Aminoalkyl Pyrrolidin-2- ones; M. B. Pathak J. Prasad, and **S. K. Panday**, **International symposium on "Current trend in Drug Discovery and Research"(CTDDR-2010)** held at central Drug Research Institute, Lucknow, w.e.f. Feb. 17-21, 2010

### Total Publication Profile :

#### Books

- (i). Angiotensin converting enzyme inhibitors: A class of potent antihypertensive agents: **Sharad Kumar Panday**, Jagdish Prasad and Manohar Bhooshan pathak; **Advances in Medicine and Biology: Volume 5** ( Nova Science Publishers, New York, USA) ( in press)

### In Indexed/ Peer Reviewed Journals

1. Claisen Rearrangement of (Aryl allenyl methyl) Ethers: Synthesis of 2-(O-hydroxy aryl) buta 1,3-dienes: Dinesh Kumar Dikshit, Sangeeta singh and **Sharad Kumar Panday**, **J. Chem. Research**, P.298 (1991)
2. Aldol Reactions of Pyroglutamates: Chiral Synthesis of 4- $\alpha$  (S) and 4- $\beta$  (R)-aryl methyl Pyroglutamates; Dinesh Kumar Dikshit and **Sharad Kumar Panday**, **J.Org. Chem.** 57, 1920 (1992)
3. Behaviour of 5- thioxo Prolinates towards Electrophiles: Synthesis of  $\alpha$  - Substituted 5- thioxo Prolinates; Dinesh Kumar Dikshit and **Sharad Kumar Panday**, **Indian Journal of Chemistry**, 31B, 123 (1992).
4. Formation of N, N'-bis(1-S-carboxyethylamino) benzene butanoate with di-t-butyl dicarbonate; Dinesh Kumar Dikshit and **Sharad Kumar Panday**, **Indian Journal of Chemistry**, 32B, 788 (1993).
5. A Short and Efficient Synthesis of (S)-4-Methylene Pyroglutamic acid Benzyl ester from (S)-Pyroglutamic acid; **Sharad Kumar Panday**, Dominique Griffert Brunet and Nicole Langlois, **Tetrahedron Lett.**, 35, 6673 (1994)
6. Self Reproduction of Chirality in Pyroglutamates: Reactions at  $\alpha$ -Positions with Electrophiles; Dinesh Kumar Dikshit, Anjana Maheshwari and **Sharad Kumar Panday**, **Tetrahedron Lett.**, 36, 6131 (1995)
7. Enantioselective Synthesis of (S)-5-Amino piperidine-2-one from (S)-Pyroglutaminol, **Sharad Kumar Panday** and Nicole Langlois, **Tetrahedron Lett.**, 36, 8205 (1995)
8. A Simple and Straight Forward Synthesis of (-)- Bulgecinine; **Sharad Kumar Panday**, and Nicole Langlois, **Synthetic Communications** 27, 1373 (1997)
9. Cycloaddition- hydrogenolysis Strategy for the Synthesis of 2,4-disubstituted Pyroglutamates; Lalit N. Goswami, Stuti Srivastava, **Sharad Kumar Panday** and Dinesh Kumar Dikshit; **Tetrahedron Lett.**, 42, 789 (2001)
10. Synthesis of N-[3'-(acetylthioalkanoyl)] and N-[3'-mercaptoalkanoyl]-4- $\alpha$  (S)-(phenylmethyl) Pyroglutamic acids and Prolines as Potent ACE Inhibitors; **Sharad Kumar Panday**, Madhu Dikshit and Dinesh Kumar Dikshit; **Medicinal Chemistry Research**, 18, 566(2009)
11. Synthesis of 2(S),4(S),5(R)-1-acyl-5-arylproline-2,4-dicarboxylicesters; **Sharad Kumar Panday**, Jagdish Prasad and Dinesh Kumar Dikshit; **Journal of Indian Chemical Society**, 86, 1079 (2009)
12. Pyroglutamic acid: A Unique Chiral Synthon: **Sharad Kumar Panday**, Jagdish Prasad and Dinesh Kumar Dikshit; **Tetrahedron: Asymmetry**, 20, 1581-1631 (2009)
13. A Straight Forward and Facile Approach towards the N- derivatization of Pyroglutamates through Mitsunobu Reaction: Synthesis of N-alkyl/ N-acyl Pyroglutamates; **Sharad Kumar Panday**, Jagdish Prasad and Manohar Bhushan Pathak; **Synthetic Communications**. (in Press)
14. Acid catalyzed Condensation of Pyroglutamic acid with Aldehydes: Synthesis of (2R, 5S)-2-aryl-1-aza-3-oxa bicyclo [3.3.0] octane-4, 8-di one; **Sharad Kumar Panday**, Jagdish Prasad and Manohar Bhushan Pathak; (a manuscript communicated to **Journal of Heterocyclic Chemistry**).
15. An Efficient and Straight Forward Synthesis of (5S)-1-benzyl-5-(1H-imidazol-1-ylmethyl)-2-pyrrolidinone (MM1): A Novel antihypertensive agent; **Sharad Kumar Panday**, Jagdish Prasad and Manohar Bhushan Pathak, **Medicinal chemistry Research**(in Press)

16. Sodium enolate derived reactions of N-Boc and N-benzyl-2-(S)- menthyl pyroglutamates with electrophiles: Synthesis of 4-substituted and  $\alpha$ -substituted pyroglutamates; **Sharad Kumar Panday** and Jagdish Prasad ,  
A manuscript communicated to **Tetrahedron Letters**

#### **Public Service / University Service / Consulting Activity**

Served University in various capacities:

1. Convener of BOS( 1998- till date)
2. Convener of RDC(2006-tilldate)
3. I/C IET Library( 1996-July1998)
4. I/C Examination(IET) (1998-2000)
5. Prof. I/C (Academic)(IET)[September 2002-July2008),
6. Chairman, Purchase Committee of IET( August 2008- till date),
7. ADSW( September 2001- January 2003),
8. Warden (December2008- till date)

#### **Professional Societies Memberships**

Life Member, Indian Chemical Societies, Kolkata

#### **Projects (Major Grants / Collaborations)**

1. One project from AICTE( 1997-2000) worth Rs. 5,00,000
2. One ongoing project from UGC( 2007-10) worth Rs. 6,09,600/=

#### **Other Details**