

<b>Name</b>	Dr. Sheela Joshi	
<b>Designation</b>	Professor	
<b>Educational Qualifications</b>	M.Sc. (Organic Chem.), Ph.D.	
<b>Date of Birth</b>	7 <sup>th</sup> August 1956	
<b>Address</b>	<b>Office</b>	School of Chemical Sciences Takshashila Campus Devi Ahilya Vishwavidyalaya Indore (M.P.) Pin- 452014
	<b>Residence</b>	M 55 Khatiwala tank Indore <u>452014</u>
<b>E-mail</b>	<a href="mailto:spjoshi11@rediffmail.com">spjoshi11@rediffmail.com</a>	
<b>Contact Details</b>	<b>Office</b>	(731) 2460208
	<b>Residence</b>	(731) 2478204
	<b>Mobile</b>	(+91)9826085169
<b>Academic Profile</b>	<b>Lecturer</b> : 9 years <b>Reader</b> : 12 years <b>Professor</b> : 15 years	
<b>Administrative Profile</b>	<ul style="list-style-type: none"> <li>• <b>Ex Dean</b>, faculty of science, DAVV Indore</li> <li>• Member of science faculty Board of studies in chemistry of DAVV Indore</li> <li>• Member Board of studies in Colleges</li> <li>• Member of academic council in Colleges</li> </ul>	
<b>Awards/Fellowships/Recognition</b>	<p>Reciepiant of Merit Scholarship</p> <p>(i) At Undergraduate and Postgraduate level.</p> <p>(ii) At junior research fellowship and senior research fellowship awarded by UGC.</p>	
<b>Research Area</b>	Synthetic Organic Chemistry, Medicinal Chemistry	
<b>Research Guidance</b>	<b>Annexure I</b>	
	<b>M.Phil.</b> : <b>09</b>	
	<b>Ph.D. Awarded</b> : <b>08</b>	
	<b>Ph.D. Registered</b> : <b>03</b>	
<b>Projects</b>	MPCST : ---	
	MPCST : ---	
<b>Membership of Societies</b>	<ul style="list-style-type: none"> <li>• Indian Council of Chemists</li> <li>• Life member – Indian Science Congress Association,</li> </ul>	

	Kolkata
<b>Significant Activities</b> (Invited Talks/ Resource Person/Sessions Chaired/ students achievements etc)	Chairperson in International Conference on Ecosystem Responses to Global Environmental Changes and Their Impact!6- 18 Feb. 2017
<b>Research Publications</b>	<b>Annexure II</b>
	<ul style="list-style-type: none"> <li>• <i>National</i> : 18</li> <li>• <i>International</i> :24</li> <li>• <i>Conferences/ Seminars/ Workshops</i> : 48+06</li> </ul>

## **Annexure I**

### **RESEARCH GUIDANCE**

#### **Ph.D. Students:**

##### **Awarded 1997**

**Navita Khosla**, “Synthesis and Characterization of Some Mannich Bases”

##### **Awarded 2002**

**Prapti Tiwari**, “Synthesis, Structural Studies and Antimicrobial Activity of Medicinally Important Mannich Bases”

##### **Awarded 2005**

**Deepak Khare**, “Synthesis and Structural Characterization of Some Biologically Active Mannich Bases”

##### **Awarded 2005**

**Dheeraj Mandloi**, “QSAR Study on Antimicrobial Activity of Mannich Bases”

(Co-supervisor: Prof. PV Khadikar)

##### **Awarded 2010**

**Anju das Manikpuri**, “Synthesis and Studies on Some Therapeutically Significant Mannich Bases.

##### **Awarded 2012**

#### **Purvi Bilgayen:**

Synthesis, Structural Characterization And Antimicrobial Activity of Medicinally Important Mannich Bases

##### **Awarded 2016**

#### **Anju Pathak:**

Synthesis, Structural Characterization and Biological Aspects of Medicinally Important Mannich Bases.

**Awarded 2018**

**Kapil Vyas**

Synthesis, Structural Studies and Antimicrobial Activity of some Therapeutically Significant Mannich Bases.

**M. Phil Students:**

1. Studies on Mannich Bases derived from Sulphamethoxazole.  
Neelam Goswami **1993**
2. Structural and Biological Aspects of Mannich Bases Derived from Sulphadiazine.  
Deepali Kaul **1993**.
3. Synthesis and Biological Evaluation of Mannich Bases Derived from Sulphamethoxazole.  
Navita Khosla **1992**.
4. Studies on Mannich Bases derived from Sulphadiazine.  
Joohi Singhal **1992**
5. The Physico-chemical Investigation of Celastrus-Paniculatus, Psorelia-coryfolia and Embelia ribes seed oil.  
Kavita Mishra **1991**.
6. Studies of some Mannich bases of Phthalimide and Nicotinamide Derived from Sulphonamides.  
Madhulika Verma **1991**.
7. The Physico-chemical Investigation of Hibiscus-Cannabinu and Bruonopsis-Laciniosa Seed Oil.  
Piyusha Ghodgaonkar **1990**.
8. Studies on Fe (II) and Fe (III) Benzohydroxamates  
Gauri Sharma **1990**
9. Electronic, Vibrational and Electron Spin Resonance on Some Meal Benzohydroxamates.  
Sunita Hardia **1990**.

## Annexure II

### LIST OF PUBLISHED PAPERS

1. Antibacterial screening of novel Mannich bases of 5H- dibenzo [b,f]azepine-5-carboxamide  
Sheela Joshi and Kapil Vyas  
*Research Journal of Recent Science* volume 6 issue 10, 10-13, **2017**
2. Antibacterial screening of newly synthesized Mannich bases derived from 5H-dibenzo[b,f]azepine-5-carboxamide against gram positive and gram negative pathogens.  
Sheela Joshi and Kapil Vyas  
*World Journal of Pharmaceutical Research*, Volume 6, Issue 9, 912-922, **2017**.
3. Synthesis, spectroscopic characterization and antibacterial screening of medicinally important Mannich bases derived from 5H-dibenzo[b,f]azepine-5-carboxamide.  
Sheela Joshi and Kapil Vyas  
*Kaav International Journal of Science, Engineering and Technology*, , Volume 4, Issue 3, A10, Pages 55-61. **2017**
4. Synthesis spectroscopic characterization and antibacterial screening of novel Mannich bases of Ganciclovir.  
Sheela Joshi, Purti Bilgayan and Anju Pathak  
*Arabian journal of chemistry*, volume 10, 1180-1187, **2017**
5. Synthesis ,Spectroscopic Characterization and antibacterial screening of some new cefotaxime sodium derivatives.  
Joshi, S.; Shukla, A.; Jhala, RS. (**2015**)  
*Arab. J. Chem.* Impact Factor: 2.684
6. Synthesis, spectral characterization and in vitro antibacterial activity of amino Methylated derivatives of cefuroxime axetil.  
Joshi, S.; Shukla A.  
*Der Pharma Chemica*, 6(3): 145-152, **2014**
7. Synthesis and *In-vitro* Study of some medicinally important Mannich Bases derived from 2-amino-9 [ {(1,3 dihydroxy propane-2yl) oxy} methyl] 6-9 dihydro-3H-purin-6-one.  
Sheela Joshi, Purti Bilgayan and Anju Pathak  
*J.Chil.Chem.Soc*, 58, N° 3(**2012**)

8. Synthetic, Spectral, Antimicrobial and QSAR Studies on Novel Mannich Bases of Glutarimides.  
Anjudas Manikpuri, Sheela Joshi and P V. Khadikar.  
*J. Chil. Chem. Soc.* Vol.55 N.3 Concepción 283-292 (2010).
9. Synthesis and antibacterial screening of novel Mannich bases of 2-amino-9[[(1,3-dihydroxy propan-2-yl)oxy]methyl] 6-9dihydro-3H-purine-6-one.  
Sheela Joshi, Purti Bilgaiyan, Kapil Vyas and Anju pathak  
*European Journal of Chemistry* volume 1(1), (2010).
10. Synthesis and antimicrobial study of the Mannich Bases of 4-[(Dipropylamino)[Bis (Methylene)] Sulfanyl] Benzamide.  
Sheela Joshi, Anjudas Manikpuri, and P.V.Khadikar.  
*Journal of Engineering, Science and Management Education*, Vol.2, (2010), 29-33.
11. Synthesis spectral studies and antimicrobial study of Aminomethylated Derivatives of 7-azaspiro [4.5] decane 6-8 dione.  
Sheela Joshi, Purti Bilgaiyan, Anjudas Manikpuri, Kapil Vyas, Anju Pathak  
*Research Journal of Pharmaceutical, Biological and Chemical Sciences*, Vol.1 (2010) 23.
12. Synthesis, characterization and Antibacterial Screening of aminomethylated derivatives of 7-azaspiro [4.5] decane-6, 8-dione.  
Sheela Joshi, Purti Bilgaiyan, Anju Das Manikpuri, Anju Pathak, Kapil Vyas  
*Der Pharma Chemica*, vol.2,(2010), 122-129.
13. Convenient one pot synthesis of antimicrobial evaluation of some new Mannich Bases of 5-nitro-2 furfuraldehyde semicarbazone.  
Sheela Joshi, Anjudas Manikpuri, Prapti Tiwari and P.V.Khadikar.  
*Oxidation communication*, 33(2010), 398-407.
14. Synthesis and SAR studies on the new potentially bioactive Mannich bases of 2-Methyl benzamide derived from sulphonamides.  
Sheela Joshi, Anjudas Manikpuri, Deepak Khare and P.V.Khadikar.  
*Oxidation communication*, 33(2010), 380-397.
15. Synthesis and Structural characterization of Mannich bases of 5-Uriedohydantoin.  
Sheela Joshi, Anjudas Manikpuri, Deepak Khare and P.V.Khadikar.  
*Oxidation communication*, 32, No.3, (2009), 714-723.
16. Synthesis and biological evaluation of medicinally important Mannich bases of 5-Nitro 2-furfuraldehyde semicarbazone derived from secondary amines.

- Sheela Joshi, Anjudas Manikpuri, Prapti Tiwari.  
International *J. of chemical sciences*, vol. 7(2), (2009), 869-877.
17. Synthesis, spectroscopic and antimicrobial studies of Mannich bases through Active hydrogen compounds.  
Sheela Joshi, Anjudas Manikpuri, Deepak Khare.  
International *J. of chemical sciences*, vol.7 (2), (2009), 825-836.
18. Studies of biological potential Mannich bases of 3,5-dinitrobenzyl-4-amino Benzamide.  
Sheela Joshi and Navita Khosla.  
*J. Of Environmental Research and Development*, 2, (2008), 612- 617.
19. Synthesis and studies of Mannich bases of 2-chloro 4-nitro benzamide as Antimicrobial agent.  
Sheela Joshi, Anjudas Manikpuri, Purti Bilgaiyan and Deepak Khare  
*J. of Environmental Research and Development*, Vol 3, (2008), 37-43.
20. Synthesis, Characterization and Antimicrobial activity of Mannich bases of 2-Chloro 4-nitro benzamide derived from sulphonamides.  
Sheela Joshi, Anju Das Manikpuri and Deepak Khare  
*J. Indian Chemical Society*, Kolkata 85, (2008), 1-5.
21. Synthesis, characterization and biological study of Medicinally Important Mannich bases derived from 4-(dimethylamino)- 1,4,4a, 5,5a, 6,11,12a-octahydro - 3,6,10,12,12a pentahydroxy naphthacene carboxamide.  
Sheela Joshi, Anju Das Manikpuri and Prapti Tiwari  
*Bioorganic and Medicinal Chemistry*, Japan, 17, (2007), 645-648.
22. QSAR Study on Sulpha Drugs: Building Blockers of Mannich Bases.  
Dheeraj Mandloi, Sheela Joshi, P V Khadikar and Navita Khosla.  
*Bioorganic and Medicinal Chemistry Letters*, Japan, 15, (2005), 405-411.
23. Synthesis and *invitro* study of Novel Mannich Bases as antibacterial agents.  
Sheela Joshi, N. Khosla, D. Khare and R. Sharda.  
*Bioorganic and Medicinal Chemistry Letters*, Japan, 15, (2005), 221-225.
24. QSAR study on Antibacterial Studies of Newly Synthesised Mannich Bases Derived from 3,5-Dinitro benzoyl-4-amino-benzamido methylamines.  
Sheela Joshi, Dheeraj Mandloi, P V Khadikar and Navita Khosla.  
*Bioinformatics India*, 2, (2004), 92-99.

- 25.** Correlations between the Benzene character of Acenes or Helicenes and Simple Molecular Descriptors.  
P.V. Khadikar, Sheela Joshi, Amrit Bajaj and Dheeraj Mandloi.  
Bioorganic and Medicinal Chemistry Letters, Japan, 14, (2004), 1187-1191.
- 26.** Invitro study of some Medicinally Important Mannich Bases derived from Antitubercular Agent.  
Sheela Joshi, Prapti Tiwari and Navita Khosla.  
Bioorganic and Medicinal Chemistry, Japan, 12, (2004), 571-576.
- 27.** QSAR Study on Antimicrobial Activity of Aulphonamides and Derived Mannich Bases.  
Sheela Joshi and Navita Khosla  
Bioorganic and Medicinal Chemistry Letters, Japan, 13, (2003), 3747-3751.
- 28.** QSAR Study on Bioconcentration factor (BCF) of Polyhalogenated Biphenyls using the PI Index.  
P.V Khadikar, Shalini Singh, Sheela Joshi D.Mandloi and A.V. Bajaj  
Bioorganic and Medicinal Chemistry Letters, Japan, 11, (2003), 5045-5050.
- 29.** QSAR Study on Solubility of Alkanes in Water and Their Partition Coefficients in Different Solvent System Using PI Index.  
P.V. Khadikar, D. Mandloi, A.V. Bajaj and Sheela Joshi  
Bioorganic and Medicinal Chemistry Letters, Japan, 13, (2003), 419-422.
- 30.** Synthesis and Antibacterial Screening of Novel Sulphonamide Mannich Bases.  
Sheela Joshi, Navita Khosla, Deepak Khare and Prapti Tiwari  
*Acta Pharmaceutica, Croatia*, 52, (2002), 197-206.
- 31.** Synthesis, Characterization and Antimicrobial Study of Some Biologically Active Mannich Bases.  
Sheela Joshi and Deepak Khare  
*International Academy of Physical Sciences (V), Jhansi*, 2002.
- 32.** Synthesis, Characterization and Antimicrobial Screening of 5-Ureidohydantoino Methylamines.  
Sheela Joshi and Deepak Khare  
*International Academy of Physical Sciences*, 2001.
- 33.** Synthesis and Characterization of Some Medicinally Important Mannich Bases Derived from Antitubercular Agent.  
Sheela Joshi and Prapti Tiwari



*International Academy of Physical Sciences*, **2001**.

- 34.** Synthesis and Biological Screening of 3,5-dinitro benzoyl, 4-amino benzamidomethyl sulphonamides.  
Navita Khosla and Sheela Joshi  
*Acta Pharmaceutica*, 48, (1998) 55-61.
- 35.** Synthesis and Biological Screening of N<sup>4</sup>-phthalamidomethyl Sulphonamides.  
Sheela Joshi, Satish Matkar, Navita Khosla and Vinita Bhandari  
*J. Indian Chem. Soc.* 74, (1997) 156-157.
- 36.** Synthesis and Antimicrobial Screening of N<sup>4</sup>-3,5 Dinitrobenzamidomethyl Sulphamethoxazole. Sheela Joshi and Navita Khosla  
*Indian Drugs* 32 (1995) 398-401.
- 37.** Synthesis and Antimicrobial Screening of Mannich Bases Derived from Sulphadiazine. Sheela Joshi and Navita Khosla  
*Indian Drugs* 31, (1994) 548-550.
- 38.** Biological Screening of Mannich Base derived from Sulphamethoxazole.  
Sheela Joshi and Navita Khosla.  
*Indian Journal Pharmaceutical Science*, (1993) 156-157.
- 39.** ESR study of Some Cu(II) Chelates of Biologically Active ligands.  
P.V Khadikar, B. Pol, Sheela Joshi and Sudhakar Bharti  
*Polish J. Chem.* 18, (1997) 833-836.
- 40.** Antibacterial Activity of some Metal Chelates of Tannic Acid and Nicotinamide.  
Sheela Joshi and P V Khadikar.  
*Indian J. of Microbiol.* 25, (1985) 369.
- 41.** Histochemical Study of Caudal Neuro-Secretory System of a Fresh Water Cyprinoid Teleost, *Oxygaster Bucaila* (Ham).  
P.K Joshi and Sheela Joshi.  
*Z. Mikrosk and Forsch Leipzig* 98, (1984) 637-639.
- 42.** Metal Complexes of 5-Sulphosalicylic Acid and their Antimicrobial Activity  
P.V. Khadikar, Sheela Joshi, SG Kaskhedikar and BD Heda  
*Indian J. Pharm. Sci.* 46, (1984) 209-211.

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