

# Dr. Nishant S. Jain

✉ Corresponding address:  
**Plot # 78, "Maltikunj" Laxminagar,  
Near water tank,  
Nagpur -440022 (MS), INDIA**  
Ph: +91-8827989653 (Cell)  
Email: [nishant.s.jain@hotmail.com](mailto:nishant.s.jain@hotmail.com)  
[adenosine2004@yahoo.co.in](mailto:adenosine2004@yahoo.co.in)



**Name** : Dr. Nishant S. Jain  
**Date of Birth** : November 15, 1977  
**Highest Qualifications** : Ph. D., M. Pharm.  
(Pharmacology)  
**Date Of Joining** : 17/1/2012

## 1. Academic Performance :

Sr. No.	Course / Degree	Year	% of Passing	University / Board
1.	B. Pharm.	1999	64.72 %	S.P. College of Pharmacy, Nagpur University
2.	M. Pharm. (Pharmacology)	2000	65.33%	U.D.P.S, Nagpur University
3.	Ph. D.	2006	----	U.D.P.S, Nagpur University

## 2. Teaching Experience:

- **Current working** Assistant Professor in Pharmacology at **Department of Pharmacy, Guru Ghasidas Central University, Koni, Bilaspur-495009** (from 17<sup>th</sup> January 2012).
- Selected by MPSC as Assistant Professor in Pharmacology at **Govt. College of Pharmacy, Amravati, Kathora Naka, Amravati-444604** (From 12<sup>th</sup> January 2011 to 13<sup>th</sup> January 2012).
- Assistant Professor in Pharmacology at **J. L. Chaturvedi College of Pharmacy, Electronic Zone building, MIDC, Hingana Road, Nagpur -440016**. (From 23<sup>rd</sup> June 2010 to 11<sup>th</sup> January 2011).

- Lecturer in Pharmacology at **J. L. Chaturvedi College of Pharmacy, Electronic Zone building, MIDC, Hingana Road, Nagpur -440016. (From 3<sup>rd</sup> November 2006 to 22<sup>nd</sup> June 2010).**
- Selected by UPSC as Lecturer in Pharmacology at **Delhi Institute of Pharmaceutical Sciences and Research, Pushp Vihar, Sector III, New Delhi-110017. Worked from 26<sup>th</sup> September 2005 to 10<sup>th</sup> October 2006. (Total Experience: 1.1 Years)**
- Lecturer in Pharmacology at **Sharad Pawar College of Pharmacy (formerly known as Nagpur College of Pharmacy), Wanadongari, Nagpur. Worked from 23<sup>rd</sup> September 2002 to 31<sup>st</sup> March 2005. (Total Experience: 2.5 Years).**
- Worked as contributory lecturer for PG Course at **Department of Pharmaceutical Sciences, RTM Nagpur University, Nagpur. (2003-2004) (1 Year).**

### **3. M. Pharm Thesis guidance:**

#### **Guided ten students with thesis title as follows:**

1. Student Name: Arpan Lekurwale, Guide: Nishant Jain. Thesis title: Role of histamine in induction of and expression to ethanol induced locomotor sensitization in mice.
2. Student Name: Antariksha Duratkar, Guide: Nishant Jain. Thesis title: Role of nicotinic receptor in the ethanol Induced Anxiolysis and Withdrawal Induced Anxiety.
3. Student Name: Heena Upadhye, Guide: Nishant Jain. Thesis title: Role of serotonin receptor in Ethanol induced anxiolysis and withdrawal induced anxiety.
4. Student Name: Uday Kannamwar Guide: Nishant Jain. Thesis title: Behavioral effects of ethanol in porsolt's forced swim test: Role of Serotonergic transmission.
5. Student Name: Sangeeta Mohanty, Guide: Nishant Jain. Thesis title: To study the behavioral effects of acetaminophen in the model of depression: Modulation by serotonergic transmission.
6. Student Name: Bhupendra Wanjari, Guide: Nishant Jain. Thesis title: To study the behavioral effects of histamine in porsolt's forced swim test in mice: Modulation by serotonergic and GABAergic transmission.
7. Student Name: Minal Patil, Guide: Nishant Jain, Co-Guide: Shubdha Ingole. Thesis title: To study the behavioral effects of Caffeic acid t in porsolt's forced swim test: Modulation by serotonergic transmission.
8. Student Name: Ashwin Deshmukh, Guide: Nishant Jain, Co-Guide: Shubdha Ingole. Thesis title: Nootropic effect of quercetin in the experimental Alzheimer's model by colchicine: Modulation by some neurotransmitter system.
9. Student Name: Rohit Bansod, Guide: Nishant Jain, Co-Guide: Ashish Chourasia. Thesis title: To study the role of berberine on 5-HT vascular reactivity in diabetic rats.

10. Student Name: Pramod Gatte, Guide: Nishant Jain, Co-Guide: Ashish Chourasia.  
Thesis title: To study the role of berberine on augmented vasocontractile effect of phenylephrine on thoracic aorta of diabetic rat.

#### 4. Number of Publications:

Sr. No.	Title of Paper	Name of Journal / Conference	Volume No.	Page No.	Year
1.	Endocannabinoid analogues exacerbate marble-burying behavior in mice via TRPV1 receptor	Neuropharmacology	2012 Jan. Ms. Ref. No.: NEUROPHA RM-D-11- 00062R2	-	2012
2.	Involvement of endocannabinoids in antidepressant and anti-compulsive effect of fluoxetine in mice	Behavioural Brain Research	Sep 30;223(1)	125-34	2011
3.	Role of nitric oxide in obsessive-compulsive behavior and its involvement in the anti-compulsive effect of paroxetine in mice.	Nitric Oxide	Sep;21(2)	140-7	2009
4.	Endocannabinoids mediate anxiolytic-like effect of acetaminophen via CB1 receptors.	Prog Neuropsychopharmacol Biol Psychiatry	Oct 1;33(7)	1191-9.	2009
5.	Neurosteroids modulate compulsive and persistent	Prog Neuropsychopharmacol Biol Psychiatry	Oct 1;33(7)	1161-6	2009

<b>Sr. No.</b>	<b>Title of Paper</b>	<b>Name of Journal / Conference</b>	<b>Volume No.</b>	<b>Page No.</b>	<b>Year</b>
	behaviour in rodents. Implications for obsessive-compulsive disorder.				
6.	A possible participation of gonadotropin-releasing hormone in the neuroleptic and cataleptic effect of haloperidol.	Neuropeptides	Jun;43(3)	251-7	2009
7.	The 5-HT <sub>3</sub> receptor antagonist, ondansetron, blocks the development and expression of ethanol-induced locomotor sensitization in mice.	Behav Pharmacol.	Feb;20(1)	78-83	2009
8.	Gastrointestinal dysfunction in diabetic rats relates with a decline in tissue L-arginine content and consequent low levels of nitric oxide	Nitric Oxide	Mar;20(2)	129-33	2009
9.	Influence of Quercetine on diabetes induced alteration in CYP3A activity and bioavailability pioglitazone in rats	American Journal of Infectious Diseases	5(2)	125-132	2009
10.	Effects of central	Behav Pharmacol.	Jul;19(4)	308-16	2008

Sr. No.	Title of Paper	Name of Journal / Conference	Volume No.	Page No.	Year
	administration of gonadotropin-releasing hormone agonists and antagonist on elevated plus-maze and social interaction behavior in rats.				
11.	Gonadotropin-releasing hormone agonist blocks anxiogenic-like and depressant-like effect of corticotrophin-releasing hormone in mice.	Neuropeptides.	Aug;42(4):	399-410	2008
12.	Leuprolide: A luteinizing hormone releasing hormone agonist attenuates ethanol withdrawal syndrome and ethanol-induced locomotor sensitization in mice.	Neuropeptides.	Jun;42(3)	345-53	2008
13.	Reversal of Caffeine induced Anxiogenic Effect by Neurosteroid 3 $\alpha$ -hydroxy-5 $\alpha$ -pregnan-20-one in Rats	Neuropharmacology	48	427-438	2005
14.	An Evaluation of GABAergic Neuroactive steroid Allopregnanolone as Neurobiological Substrate for the	Psychopharmacology (Berl)	180	267-278	2005

Sr. No.	Title of Paper	Name of Journal / Conference	Volume No.	Page No.	Year
	Anti-Anxiety effect of Ethanol in Rats.				

## 5. Attended: Conference / Seminar / STTP / Workshop

### A. International

1. N. Jain, M. Wanjari., S. Umathe GnRH modulates diazepam induced antiantxiety and anticonvulsant effect in mice. 19<sup>th</sup> Neuropharmacology conference: Neuropeptide (14-16<sup>th</sup> October. 2009), at Chicago, USA. **(Sponsored by Department of Science and Technology, Govt. of India).**
2. P. Buthada, P. Dixit, N. Jain, S. Umathe. Ethanol withdrawal increases marble burring behavior in mice: modulation by GnRH agonist. 1<sup>st</sup> International Congress on structural Neurosciences (2<sup>nd</sup> Feb. 2008), Nagpur, India.
3. P. Buthada, P. Dixit, N. Jain, S. Umathe. GnRH agonist reverses Ethanol withdrawal induced hyperactivity and locomotor stimulation in mice. 1<sup>st</sup> International Congress on structural Neurosciences (2<sup>nd</sup> Feb, 2008), Nagpur, India.

### B. National

1. Lekurwale A., Umathe S. N., Jain N. S. Central histaminergic transmission modulates induction of and expression to ethanol induced locomotor sensitization in mice. 62<sup>th</sup> Indian Pharmaceutical congress (2010) at Manipal, India.
2. Duratkar A., Umathe S. N., Jain N. S. Ethanol Induced Anxiolysis and Withdrawal Induced Anxiety: Modulation by neuronal nicotinic acetylcholine receptor. 62<sup>th</sup> Indian Pharmaceutical congress (2010) at Manipal, India.
3. Mohanty S, Jain N. S. B. Bhonsod, B. Wanjari. Antiuro lithiatic and antimicrobial activity of aqueous and ethanolic extract of CRATEVA MAGNA bark on ethylene glycol and ammonium chloride induced urolithiasis in rats. 62<sup>th</sup> Indian Pharmaceutical congress (2010) at Manipal, India.
4. H. Upadhye, S. Umathe, N. Jain. Ethanol induced anxiolysis and withdrawal induced anxiety in mice: Modulation by serotonergic transmission. 43<sup>rd</sup> Annual Conference of Indian Pharmacological Society (IPS), India & International Conference on "Pharmacology and Translation Research". 13th-16th December, 2010 at National Institute Of Nutrition, ICMR, Hyderabad.
5. U. Kannamwar, S. Umathe, N. Jain. Serotonergic transmission affects ethanol induced antidepressant and withdrawal induced behavioral despair in mice. 43<sup>rd</sup> Annual Conference of Indian Pharmacological Society (IPS), India & International Conference on "Pharmacology and Translation Research". 13th-16th December, 2010 at National Institute Of Nutrition, ICMR, Hyderabad.

6. S. Mohanty, S. Umathe, N. Jain. Antidepressant-like effect of acetaminophen in porsolt's forced swim test in mice: Role of serotonergic 5-HT<sub>1A</sub> receptor. 43<sup>rd</sup> Annual Conference of Indian Pharmacological Society (IPS), India & International Conference on "Pharmacology and Translation Research". 13th-16th December, 2010 at National Institute Of Nutrition, ICMR, Hyderabad.
7. B. Wanjari, S. Umathe, N. Jain. Essentiality of central serotonergic transmission for antidepressant-like effect of endogenous histamine in porsolt's forced swim test in mice. 43<sup>rd</sup> Annual Conference of Indian Pharmacological Society (IPS), India & International Conference on "Pharmacology and Translation Research". 13th-16th December, 2010 at National Institute Of Nutrition, ICMR, Hyderabad.
8. M. Patil, S. Umathe, S. Ingole, N. Jain. Caffeic acid induces behavioral despair like effect in porsolt's forced swim test in mice: Reversal by serotonergic agents. 43<sup>rd</sup> Annual Conference of Indian Pharmacological Society (IPS), India & International Conference on "Pharmacology and Translation Research". 13th-16th December, 2010 at National Institute Of Nutrition, ICMR, Hyderabad.
9. Attended the 62<sup>th</sup> Indian Pharmaceutical congress (2010) at Manipal, India.
10. Attended a National Seminar on Regulatory Affairs in Pharmaceutical Sciences on 13<sup>th</sup> Feb (2010) at UDPS, RTM Nagpur university, Nagpur, India.
11. Attended a National Seminar on Emerging trends in Advanced Drug Delivery system at Sharda Pawar College of Pharmacy on 8<sup>th</sup> and 9<sup>th</sup> (2007) at Hyderabad, India.
12. Attended the 57<sup>th</sup> Indian Pharmaceutical congress (2005) at Hyderabad, India.
13. C. Kalayashri\*, N. Jain, C. Chopde. Antidepressant-like effect of adenosine receptor antagonists in porsolt's forced swim test: Modulation by serotonergic agents. 55<sup>th</sup> Indian Pharmaceutical congress (2003). Chennai, India.
14. P. Buthade, R. Ugale, K. Hirani, N. Jain, C. Chopde. Effect of finasteride on ethanol induced sensitization. 55<sup>th</sup> Indian Pharmaceutical congress (2003), Chennai, India.
15. K. Hirani, A. Sharma, R. Ugale, N. Jain, C. Chopde. Analgesic effect of ethanol and withdrawal induced hyperalgesia: Modulation by neuroactive steroid allopregnanolone. National symposium on comparative endocrinology, Nagpur, India. 27-29, Nov. 2003.
16. P. Bhutada, K. Hirani, R. Ugale, N. Jain, C. Chopde. An evaluation of neuroactive steroid allopregnanolone in the cataleptic effect of olanzapine: Modulation by Acute and Chronic stress. National symposium on comparative endocrinology (27-29, Nov. 2003). Nagpur, India.
17. U. Tambe, N. Jain, R. Ugale, K. Hirani, C. Chopde, M. Morelli. Effect of adenosine and NMDA antagonist in the development of behavioral sensitization and its expression to haloperidol induced catalepsy. 54<sup>th</sup> Indian Pharmaceutical congress (2002). Pune (Maharashtra), India.
18. N. Jain, C. Chopde, M. Morelli. Neurosteroid 3-alpha-hydroxy-5alpha-pregnan-20-one attenuates anxiogenic effect of caffeine. 54<sup>th</sup> Indian Pharmaceutical congress (2002). Pune (Maharashtra), India.

19. R. Ugale, K. Hirani, N Jain, C. Chopde Putative role of neurosteroids allopregnanolone in the anticonvulsant action of etifoxen.. 54<sup>th</sup> Indian Pharmaceutical congress (2002). Pune (Maharashtra), India.
20. N Jain, K. Hirani, R. Ugale, C. Chopde. Role of Neurosteroid allopregnanolone in caffeine induced locomotor stimulation and tolerance in rats. Indian Pharmacological Society; (2002). Nagpur, India.
21. U. Rajesh, N. Jain, K. Hirani, R. Khisti, C. Chopde. Role of neurosteroid allopregnanolone in behavioral actions of atypical antipsychotic olanzapine. Indian Pharmacological Society (2002). Nagpur (Maharashtra), India.
22. K. Hirani, R. Ugale, N. Jain, C. Chopde. Allopregnanolone and ethanol-behavioral effect in animal model of depression. National Brain Research centre and NIH US symposium (2002). New Delhi, India.
23. P. Koul, C. Chopde, N. Jain, R. Ugale, U. Tambe. Effect of ondansetron on haloperidol-induced catalepsy. Indian Pharmaceutical congress (2001). New Delhi, India.
24. R. Khisti, R. Ugale, N. Jain, M. Vyas, C. Chopde. Role of allopregnanolone in dopamine mediated behavior. Indian Pharmaceutical congress (2001). New Delhi, India.
25. N. Jain, R. Khisti, C. Chopde. "Neurosteroid 3-alpha-hydroxy- 5-alpha-pregnan-20-one prevents development of tolerance and dependence to caffeine. Indian Pharmaceutical congress (2000). Hyderabad, India.

**STTP attended:**

1. Two weeks STTP on Emerging Areas in Pharmaceutical Education and Practice at Shard Pawar College of Pharmacy, Wanadongari, Nagpur (21<sup>ST</sup> Oct 2002 to 1<sup>st</sup> Nov 2002)
2. One weeks STTP on Frontiers in Pharmaceutical Sciences at Delhi Institute of Pharmaceutical Sciences and Research, New Delhi (27<sup>th</sup> Feb to 3<sup>rd</sup> Mar 2006).

**Organized:**

1. Worked as Chairman, Scientific Committee in the AICTE SPONSERED Two Days National Seminar on HIV/AIDS and Herbal Drug Research: A global Perspective held on 2<sup>nd</sup> and 3<sup>rd</sup> Nov, 2007 at J. L. Chaturvedi College of Pharmacy, Nagpur.
2. Worked as Co-Chairman, Proceeding Committee in the AICTE SPONSERED Two Days National Seminar on HIV/AIDS and Herbal Drug Research: A global Perspective held on 2<sup>nd</sup> and 3<sup>rd</sup> Nov, 2007 at J. L. Chaturvedi College of Pharmacy, Nagpur.
3. Worked as Co-Coordinator for Two weeks STTP on Recent trends in Pharmacology at Delhi Institute of Pharmaceutical Sciences and Research, New Delhi (21<sup>st</sup> to 25<sup>th</sup> Nov, 2005).

**Delivered:**



1. Expert lecture on " Autonomic Nervous system " at Adv. Manohar College of diploma in Pharmacy, Wanadogari, Nagpur, in Dec 2008.
2. Expert lecture on "Signal Transduction " at Adv. Manohar College of diploma in Pharmacy, Wanadogari, Nagpur, Dec 2009.

## **6. Extra Curricular Activities:**

1. Worked as a In-charge, Scientific Section of biannual Magazine, Avishkar 2009-2010.
2. Worked as In-charge Culture committee at JLCCP for the session 2006 to 2008.
3. Worked as Assistant Public relation officer for DIPSAR, New Delhi, Govt. of Delhi.
4. Worked as a co-Editor of DIPSAR annual Magazine, 2005-2006.

## **7. Achievements:**

1. Presented a paper at 19<sup>th</sup> Neuropharmacology conference: Neuropeptide (14-16<sup>th</sup> October. 2009), at Chicago, USA. (sponsored by Department of Science and Technology, Govt. of India)
2. Antidepressant –like effect of adenosine receptor antagonists in porsolt's forced swim test: Modulation by serotonergic agents 55<sup>th</sup> *Indian Pharmaceutical congress* in 2003, Chennai, India was adjudged as BEST ORAL SCIENTIFIC PRESENTATION in the scientific session of pharmacology and toxicology.
3. Selected by Union Public Service Commission (UPSC), Govt. of India as lecturer in Pharmacology at Delhi Institute of Pharmaceutical Sciences and Research, Pushp Vihar, Sector III, New Delhi-110017.
4. Following research papers are cited by the ANNUAL NEWS LETTER PUBLISHED BY SOCIETY FOR NEUROSCIENCES (SFN), USA, AS THE RECENT FINDINGS OF YEAR 2005-06 IN THE FIELD OF NEUROSTERIODS RESEARCH.
  - a) An Evaluation of GABAergic Neuroactive steroid Allopregnanolone as Neurobiological Substrate for the Anti-Anxiety effect of Ethanol in Rats (Psychopharmacology (Berl), 2005; 180: 267-278).
  - b) Reversal of Caffeine induced Anxiogenic Effect by Neurosteroid 3 $\alpha$ -hydroxy-5 $\alpha$ -pregnan-20-one in Rats. (Neuropharmacology, 2005; 48 :427-438).

## **8. Research Interest:**

1. **To understanding the neurobiology of addiction.** The key targets of interest are central Histamine, GABA, Nicotinic and Serotonin receptors, and their role in the development of dependence, tolerance and withdrawal of drug of abuse viz. ethanol and nicotine.
2. To assess the role of endogenous molecules in the pathophysiology of various mood disorders like depression, psychosis and anxiety. Specialized in the drug administration in the intracerebroventricular (ICV) route and various rodent behavioral paradigms.

## **9. Administration:**

1. Worked as Head, Pharmacology Department (PG) from 2009 to 2011.
2. Worked as Assistant Public relation officer for DIPSAR, New Delhi, Govt. of Delhi.

**Signature**

(Dr. Nishant. S. Jain)