

Dr. Dadasaheb M. Kokare

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| Personal | Date of Birth : January 02, 1977 Gender : Male Marital status : Married Languages : English, Marathi and Hindi |
| Present Position | Associate Professor in Pharmacology Department of Pharmaceutical Sciences, RTM Nagpur University, Nagpur 440 033 Phone +91-0712-2500355 (O); 09850318502 (Mobile) Fax +91-0712-2500324 (O) E-mail : kokaredada@yahoo.com |
| Address | Flat No. 304, 'Rajat-Utsav' Apartment, Amravati Road, Nagpur 440 033 |
| Research Credits and Specialization | My research interests are focused on neuroscience related work with special emphasis on the behavioral pharmacology. Using predominantly rodent behavioral paradigms, immunohistochemistry, microdialysis, HPLC-ECD, molecular and epigenetic techniques, we study the role of different peptidergic biomolecules in the energy homeostasis, drug addiction coupled with reward and reinforcement, and also in the mechanism of action of certain psychopharmacological agents. We are actively examining how these endogenous peptidergic molecules modulate the different stages of addiction inclusive of acute, tolerance, dependence and withdrawal. We have also studied the participation of neurosteroid allopregnenolone in alcoholism and in the anxiolytic action of etifoxine. We have also been working on other abuse substances such as diazepam, caffeine and nicotine with some neuropeptides. Our studies have been published in peer reviewed journals like Pharmacology, Biochemistry and Behavior, Neuropsychopharmacology, Brain Research, Appetite, British Journal of Pharmacology, Neuropharmacology and Addiction Biology. |
| Teaching experience | Undergraduate: 19 years- Teaching Pharmacology, Biochemistry and Physiology. Postgraduate: 18 years- Teaching Biological Evaluation and Toxicology and Advanced Physiology and Pathophysiology. |
| | 2021 -2003 Dept. of Pharmaceutical Sciences R. T. M. Nagpur University Associate Professor in Physiology, Biochemistry and Pharmacology |
| | 2003 -2001 Smt. K. B. College of Pharmacy R. T. M. Nagpur University Lecturer in Physiology, Biochemistry and Pharmacology |
| Research experience | 2015 (Jan-July) Dept of Psychiatry UIC, Chicago, USA <i>"Studies on the role of alpha-melanocyte stimulating hormone-melanocortin 4 receptors system in alcoholism"</i> (Post-Doctoral Research Fellow) Supervisor: Prof. Subhash C. Pandey |
| | 2008–2001 Department of Pharm. Sciences R. T. M. Nagpur University <i>"Studies on behavioral effects of ethanol in rodents: Role of neuropeptide alpha-melanocyte stimulating hormone"</i> (Ph. D. thesis) Supervisors: Prof. N. K. Subhedar and Prof. C. T. Chopde |

2000 – 1999 Department of Pharm. Sciences R. T. M. Nagpur University
“Regulation of calcitonin secreting parafollicular cells in the thyroid of the rat: In vitro study” (M. Pharm. research work)
Supervisor: Prof. N. K. Subhedar

**Experience of
guiding
research**

Ph. D. awarded: 07

M. Pharm. awarded: 48

Presently supervising research work of 03 Ph. D. and 03 M. Pharm. students.

**Research
Projects**

1. Principal Investigator in **DST** sponsored research project (SR/SO/AS/40/2007) entitled “Importance of CART peptide in learning and memory traces, reward and reinforcement and hypophyseal regulation in rodents” (2008-2011). The total fund sanctioned for this project is Rs. 32,50,000/- and provision for two JRF.
2. Principal Investigator in **DBT** sponsored research project (BT/PR14022/MED/30/324/2010) entitled “Role of cocaine- and amphetamine-regulated transcript peptide (CART) in tissue regeneration following spinal cord injury in mice” (2010-2013). The total fund sanctioned for this project is Rs. 44,00,000/- and provision for two JRF.
3. Project Investigator in **DBT** sponsored research project (BT/PR4909/MED/30/746/2012) entitled “Cocaine- and amphetamine-regulated transcript peptide (CART) as a common messenger in pathways that mediate energy balance and reproduction” (2013-2016). The total fund sanctioned for this project is Rs. 75,30,000/- (Joint Project) and provision for one JRF.
4. Project Investigator in **DBT** sponsored research project (BT/PR6325/GBD/27/402/2012) entitled “Interaction between nitric oxide and TRH in the anterior parvocellular subdivision of the hypothalamic paraventricular nucleus (PVNa): Implication in regulation of food intake” (2013-2016). The total fund sanctioned for this project is Rs. 38,00,000/- (Joint Project) and provision for one JRF.
5. Principal Investigator in **DST-SERB** sponsored research project (SB/SO/AS-12/1014) entitled “Role of cocaine- and amphetamine-regulated transcript peptide (CART) in reward and reinforcement: downstream mechanisms, induction of neuronal plasticity and interaction with the dopamine system” (2016-2019). The total fund sanctioned for this project is Rs. 59,73,400/- and provision for two JRF.
6. Principal Investigator in **AICTE-RPS** sponsored research project (File No. 8-82/RIFD/RPS/POLICY-1/2016-17) entitled “Studies on the role of neuropeptide S in neuropathic pain in rats” (2017-2020). The total fund sanctioned for this project is Rs. 15,29,412/-.
7. Principal Investigator in **AICTE-MODROBS** sponsored research project (Reference no. 9-183/RIFD/MODROB/POLICY-1/2016-17) entitled “Development of Neural and cognitive science laboratory” (2017-2019). The total fund sanctioned for this project is Rs. 19,00,000/-.
8. Principal Investigator in **URPS** sponsored research project (No. Dev/RTMNURP/AH/2115; Dated: 17/01/2018) entitled “Influence of mild traumatic brain injury on reward and reinforcement behavior in rodents” (2018-2020). The

total fund sanctioned for this project is Rs. 3,00,000/-.

**Research
Publications**

1. Balasubramanian N, Sagarkar S, Choudhary AG, **Kokare DM**, Sakharkar AJ (2020). Epigenetic Blockade of Hippocampal SOD2 Via DNMT3b-Mediated DNA Methylation: Implications in Mild Traumatic Brain Injury-Induced Persistent Oxidative Damage. *Molecular Neurobiology* doi: 10.1007/s12035-020-02166-z.
2. Awathale SN, Dudhbhate BB, Rahangdale RR, Borkar CD, Subhedar NK, **Kokare DM** (2020). Denial of food to the hungry rat: A novel paradigm for induction and evaluation of anger-like emotion. *Journal of Neuroscience Methods* 341:108791.
3. Upadhya MA, Upadhya HM, Borkar CD, Choudhary AG, Singh U, Chavan P, Sakharkar A, Singru P, Subhedar NK, **Kokare DM** (2020). Nicotine-induced brain stimulation reward is modulated by melanocortin-4 receptors in ovariectomized rats. *Neuroscience* 431:205-221.
4. Somalwar AR, Choudhary AG, Balasubramanian N, Sakharkar AJ, Subhedar NK, **Kokare DM** (2020). Cocaine- and amphetamine-regulated transcript peptide promotes reward seeking behavior in socially isolated rats. *Brain Research* 1728:146595.
5. Kawade HM, Borkar CD, Shambharkar AS, Singh O, Singru PS, Subhedar NK, **Kokare DM** (2020). Intracellular mechanisms and behavioral changes in mouse model of attention deficit hyperactivity disorder: Importance of age-specific NMDA receptor blockade. *Pharmacology, Biochemistry and Behavior* 188:172830.
6. Singh U, Upadhya M, Basu S, Singh O, Kumar S, **Kokare DM**, Singru PS (2020). Transient Receptor Potential Vanilloid 3 (TRPV3) in the Cerebellum of Rat and Its Role in Motor Coordination. *Neuroscience* 424:121-132.
7. Raut NA, **Kokare DM**, Mahady GB (2019). Therapeutic Potential of Ocimum Tenuiflorum L.: Metabolic and Mental Disorders. Chapter 5 in Book - The Therapeutic Properties of the Medicinal Plants (Health-Rejuvenating Bioactive Compounds of Native Flora), Editors: Goyal MR et al., *Apple Academic Press* 978-1-771-88803-5
8. Nakhate KT, Subhedar NK, **Kokare DM** (2019). Involvement of neuropeptide CART in the central effects of insulin on feeding and body weight. *Pharmacology, Biochemistry and Behavior* 181:101-109.
9. Dandekar MP, Bharné AP, Borkar PD, Subhedar NK, **Kokare DM** (2019). Maternal ethanol exposure reshapes CART system in the rat brain: Correlation with development of anxiety, depression and memory deficits. *Neuroscience* 406:126-139.
10. Sagarkar S, Balasubramanian N, Mishra S, Choudhary AG, **Kokare DM**, Sakharkar AJ (2019). Repeated mild traumatic brain injury causes persistent changes in histone deacetylase function in hippocampus: Implications in learning and memory deficits in rats. *Brain Research* 1711:183-192.
11. Borkar CD, Sagarkar S, Sakharkar AJ, Subhedar NK, **Kokare DM** (2019).

Neuropeptide CART prevents memory loss attributed to withdrawal of nicotine following chronic treatment in mice. *Addiction Biology* 24 (1):51-64.

12. Zhang H, Kyzar EJ, Bohnsack JP, **Kokare DM**, Teppen T, Pandey SC (2018). Adolescent alcohol exposure epigenetically regulates CREB signaling in the adult amygdala. *Scientific Reports* 8(1):10376.
13. Nakhate KT, Subhedar NK, **Kokare DM** (2018). A role of neuropeptide CART in hyperphagia and weight gain induced by olanzapine treatment in rats. *Brain Research* 1695:45-52.
14. Somalwar AR, Choudhary AG, Sharma PR, B N, Sagarkar S, Sakharkar AJ, Subhedar NK, **Kokare DM** (2018). Cocaine- and amphetamine-regulated transcript peptide (CART) induced reward behavior is mediated via Gi/o dependent phosphorylation of PKA/ERK/CREB pathway. *Behavioural Brain Research* 348:9-21.
15. Nakhate KT, Bharne AP, Verma VS, Aru DN, **Kokare DM** (2018). Plumbagin ameliorates memory dysfunction in streptozotocin induced Alzheimer's disease via activation of Nrf2/ARE pathway and inhibition of β -secretase. *Biomedicine and Pharmacotherapy* 101:379-390.
16. Borkar CD, Bharne AP, Nagalakshmi B, Sakharkar AJ, Subhedar NK, **Kokare DM** (2018). Cocaine- and Amphetamine-Regulated Transcript Peptide (CART) Alleviates MK-801-Induced Schizophrenic Dementia-Like Symptoms. *Neuroscience* 375:94-107.
17. Choudhary AG, Somalwar AR, Sagarkar S, Rale A, Sakharkar A, Subhedar NK, **Kokare DM** (2018). CART neurons in the lateral hypothalamus communicate with the nucleus accumbens shell via glutamatergic neurons in paraventricular thalamic nucleus to modulate reward behavior. *Brain Structure and Function* 223(3):1313-1328.
18. Sagarkar S, Bhamburkar T, Shelkar G, Choudhary A, **Kokare DM**, Sakharkar AJ (2017). Minimal traumatic brain injury causes persistent changes in DNA methylation at BDNF gene promoters in rat amygdala: A possible role in anxiety-like behaviors. *Neurobiology of Diseases* 106:101-109.
19. **Kokare DM**, Kyzar EJ, Zhang H, Sakharkar AJ, Pandey SC (2017). Adolescent alcohol exposure-induced changes in alpha-melanocyte stimulating hormone and neuropeptide Y pathways via histone acetylation in the brain during adulthood. *International Journal of Neuropsychopharmacology* 20(9):758-768.
20. Sagarkar S, Mahajan S, Choudhary AG, Borkar CD, **Kokare DM**, Sakharkar AJ (2017). Traumatic stress-induced persistent changes in DNA methylation regulate neuropeptide Y expression in rat jejunum. *Neurogastroenterology and Motility* doi: 10.1111/nmo.13074.
21. Somalwar AR, Shelkar GP, Subhedar NK, **Kokare DM** (2017). The role of neuropeptide CART in the lateral hypothalamic-ventral tegmental area (LH-VTA) circuit in motivation. *Behavioural Brain Research* 317; 340-349.
22. Shelkar GP, Kumar S, Singru PS, Subhedar NK, **Kokare DM** (2017). Noradrenergic inputs from locus coeruleus to posterior ventral tegmental area are

essential to support ethanol reinforcement. *Addiction Biology* 22(2); 291-302.

23. Nakhate KT, Yedke SU, Bharne AP, Subhedar NK, **Kokare DM** (2016). Evidence for the involvement of neuropeptide Y in the antidepressant effect of imipramine in type 2 diabetes. *Brain Research* 1646:1-11.
24. Bharne AP, Borkar CD, Bodakuntla S, Lahiri M, Subhedar NK, **Kokare DM** (2016). Pro-cognitive action of CART is mediated via ERK in the hippocampus. *Hippocampus* 10; 1313-1327.
25. Raut NA, Dhore PW, Saoji SD, **Kokare DM** (2016). Selected bioactive natural products for Diabetes mellitus. Chapter 9 in book 'Studies in Natural Products Chemistry'. Elsevier Publication group. *SNPC*, 978-0-444-63602-7.
26. Singh U, Kumar S, Shelkar GP, Yadhav M, **Kokare DM**, Goswami C, Lechan RM, Singru PS (2016). Transient receptor potential vanilloid (TRPV3) in the ventral tegmental area of rat: Role in modulation of the mesolimbic-dopamine reward pathway. *Neuropharmacology* 110; 198-210.
27. Sakharkar AJ, Vetreno RP, Zhang H, **Kokare DM**, Crews FT, Pandey SC (2016). A role for histone acetylation mechanisms in adolescent alcohol exposure-induced deficits in hippocampal brain-derived neurotrophic factor expression and neurogenesis markers in adulthood. *Brain Structure and Function* 221; 4691-4703.
28. Upadhyaya MA, Shelkar GP, Subhedar NK, **Kokare DM** (2016). CART modulates the effects of levodopa in rat model of Parkinson's disease. *Behavioural Brain Research* 301; 262-272.
29. Borkar CD, Upadhyaya MA, Shelkar GP, Subhedar NK, **Kokare DM** (2016). Neuropeptide Y system in accumbens shell mediates ethanol self-administration in posterior ventral tegmental area. *Addiction Biology* 21(4); 766-775.
30. Bharne AP, Borkar CD, Subhedar NK, **Kokare DM** (2015). Differential expression of CART in feeding and reward circuits in binge eating rat model. *Behavioural Brain Research* 291; 219-231.
31. Desai SJ, Borkar CD, Nakhate KT, Subhedar NK, **Kokare DM** (2014). Neuropeptide Y attenuates anxiety- and depression-like effects of cholecystokinin-4 in mice. *Neuroscience* 277; 818-830.
32. Arora SK, Itankar PR, Verma PR, Bharne AP, **Kokare DM** (2014). Involvement of NFkB in the antirheumatic potential of *Chenopodium album* L., aerial parts extracts. *Journal of Ethnopharmacology* 155; 222-229.
33. Shelkar GP, Kale AD, Singh U, Singru PS, Subhedar NK, **Kokare DM** (2015). Alpha-melanocyte stimulating hormone modulates ethanol self-administration in posterior ventral tegmental area through melanocortin-4 receptors. *Addiction Biology* 20; 302-315.
34. Kotagale NR, Upadhyaya M, Hadole PN, **Kokare DM**, Taksande BG (2014). Involvement of hypothalamic neuropeptide Y in pentazocine induced suppression of food intake in rats. *Neuropeptides* 48(3); 133-141.

35. Subhedar NK, Nakhate KT, Upadhya MA, **Kokare DM** (2014). CART in the brain of vertebrates: Circuits, functions and evolution. *Peptides* 54C; 108-130.
36. Taksande BG, Kotagale NR, Gawande DY, Bharne AP, Chopde CT, **Kokare DM** (2014). Neuropeptide Y in the central nucleus of amygdala regulates the anxiolytic effect of agmatine in rats. *European Neuropsychopharmacology* 24; 955-963.
37. Kotagale NR, Walke S, Shelkar GP, **Kokare DM**, Umekar MJ, Taksande BG (2014). Agmatine attenuates nicotine induced conditioned place preference in mice through modulation of neuropeptide Y system. *Behavioural Brain Research* 262C; 118-124.
38. Desai SJ, Bharne AP, Upadhya MA, Somalwar AR, Subhedar NK, **Kokare DM** (2014). A simple and economical method of electrode fabrication for brain self-stimulation in rats. *Journal of Pharmacological and Toxicological Methods* 69(2); 141-149.
39. Bhorkar AA, Dandekar MP, Nakhate KT, Subhedar NK, **Kokare DM** (2014). Involvement of the central melanocortin system in the effects of caffeine on anxiety-like behavior in mice. *Life Sciences* 95(2); 72-80.
40. Nakhate KT, Subhedar NK, Bharne AP, Singru PS, **Kokare DM** (2013). Involvement of cocaine- and amphetamine-regulated transcript peptide in the hyperphagic and body weight promoting effects of allopregnanolone in rats. *Brain Research* 1535; 44-55.
41. Desai SJ, Upadhya MA, Subhedar NK, **Kokare DM** (2013). NPY mediates reward activity of morphine, via NPY Y1 receptors, in the nucleus accumbens shell. *Behavioural Brain Research* 247C; 79-91.
42. Upadhya MA, **Kokare DM**, Subhedar NK (2013). Cocaine- and amphetamine-regulated transcript peptide in the central nucleus of amygdala potentiates behavioral and hormonal responses of the rat exposed to its predator. *Behavioural Brain Research* 243; 129-137.
43. Bharne AP, Upadhya MA, Shelkar GP, Singru PS, Subhedar NK, **Kokare DM** (2013). Neuroprotective effect of cocaine- and amphetamine-regulated transcript peptide in spinal cord injury in mice. *Neuropharmacology* 67; 126-135.
44. Garad MC, Upadhya MA, **Kokare DM**, Itankar PR (2012). Aerial parts of *Enicostemma littorale* Blume serve as antipyretic and antacid: *in vivo* and *in vitro* evaluations. *Pharmacognosy Communications* 3; 42-45.
45. Rangani RJ, Upadhya MA, Nakhate KT, **Kokare DM**, Subhedar NK (2012). Nicotine evoked improvement in learning and memory is mediated through NPY Y1 receptors in rat model of Alzheimer's disease. *Peptides* 33; 317-328.
46. Upadhya MA, Nakhate KT, **Kokare DM**, Singh U, Singru PS, Subhedar NK (2012). CART peptide in the nucleus accumbens shell acts downstream to dopamine and mediates the reward and reinforcement actions of morphine. *Neuropharmacology* 62; 1823-1833.
47. Dandekar MP, Nakhate KT, **Kokare DM**, Subhedar NK (2012). Involvement of

CART in estradiol-induced anorexia. *Physiology and Behavior* 105; 460-469.

48. **Kokare DM**, Shelkar GP, Borkar CD, Nakhate KT, Subhedar NK (2011). A simple and inexpensive method to fabricate a cannula system for intracranial injections in rats and mice. *Journal of Pharmacological and Toxicological Methods* 64; 246-250.
49. Taksande BG, Kotagale NR, Nakhate KT, Mali PD, **Kokare DM**, Hirani K, Subhedar NK, Chopde CT, Ugale RR (2011). Agmatine in the Hypothalamic Paraventricular Nucleus Stimulates Feeding in Rats: Involvement of Neuropeptide Y. *British Journal of Pharmacology* 164; 704-718.
50. Upadhya MA, Dandekar MP, **Kokare DM**, Singru PS, Subhedar NK (2011). Evidence for the participation of cocaine- and amphetamine-regulated transcript peptide (CART) in the fluoxetine-induced anti-hyperalgesia in neuropathic rats. *Peptides* 32; 317-326.
51. Upadhya MA, Nakhate KT, **Kokare DM**, Singru PS, Subhedar NK (2011). Cocaine- and amphetamine-regulated transcript peptide increases spatial learning and memory in rats. *Life Sciences* 88; 322-334.
52. Dandekar MP, Nakhate KT, **Kokare DM**, Subhedar NK (2011). Effect of nicotine on feeding and body weight in rats: involvement of cocaine- and amphetamine-regulated transcript peptide. *Behavioural Brain Research* 219; 31-38.
53. Nakhate KT, **Kokare DM**, Singru PS, Subhedar NK (2011). Central regulation of feeding behavior during social isolation of rat: evidence for the role of endogenous CART system. *International Journal of Obesity* 35; 773-784.
54. Bharne AP, Upadhya MA, **Kokare DM**, Subhedar NK (2011). Effect of alpha-melanocyte stimulating hormone on locomotor recovery following spinal cord injury in mice: Role of serotonergic system. *Neuropeptides* 45; 25-31.
55. Nakhate KT, **Kokare DM**, Singru PS, Taksande AG, Kotwal SD, Subhedar NK (2010). Hypothalamic cocaine- and amphetamine-regulated transcript peptide is reduced and fails to modulate feeding behavior in rats with chemically-induced mammary carcinogenesis. *Pharmacology, Biochemistry and Behavior* 97; 340-349.
56. **Kokare DM**, Dandekar MP, Singru PS, Gupta G, Subhedar NK (2010). Involvement of alpha-MSH in the social isolation induced anxiety- and depression-like behaviors in rat. *Neuropharmacology* 58; 1009-1018.
57. Deo GS, Dandekar MP, Upadhya MA, **Kokare DM**, Subhedar NK (2010). Neuropeptide Y Y1 receptors in the central nucleus of amygdala mediate the anxiolytic-like effect of allopregnanolone in mice: Behavioral and immunocytochemical evidences. *Brain Research* 1318; 77-86.
58. Bhisikar SM, **Kokare DM**, Nakhate KT, Chopde CT, Subhedar NK (2009). Tolerance to ethanol sedation and withdrawal hyper-excitability is mediated via neuropeptide Y Y1 and Y5 receptors. *Life Sciences* 85(21-22); 765-772.
59. Kamdi SP, Nakhate KT, Dandekar MP, **Kokare DM**, Subhedar NK (2009). Participation of corticotropin-releasing factor type 2 receptors in the acute, chronic

and withdrawal actions of nicotine associated with feeding behavior in rats. *Appetite* 53; 354-362.

60. Upadhya MA, Dandekar MP, **Kokare DM**, Singru PS, Subhedar NK (2009). Involvement of neuropeptide Y in the acute, chronic and withdrawal responses of morphine in nociception in neuropathic rats: behavioral and neuroanatomical correlates. *Neuropeptides* 43(4); 303-314.
61. Nakhate KT, Dandekar MP, **Kokare DM**, Subhedar NK (2009). Involvement of neuropeptide Y Y(1) receptors in the acute, chronic and withdrawal effects of nicotine on feeding and body weight in rats. *European Journal of Pharmacology* 609(1-3); 78-87.
62. Goyal SN, Upadhya MA, **Kokare DM**, Bhisikar SM, Subhedar NK (2009). Neuropeptide Y modulates the antidepressant activity of imipramine in olfactory bulbectomized rats: involvement of NPY Y1 receptors. *Brain Research* 1266; 45-53.
63. Meena H, Nakhate KT, **Kokare DM**, Subhedar NK (2009). GABA_A receptors in nucleus accumbens shell mediate the hyperphagia and weight gain following haloperidol treatment in rats. *Life Sciences* 84(5-6); 156-163.
64. Dandekar MP, Singru PS, **Kokare DM**, Subhedar NK (2009). Cocaine- and amphetamine-regulated transcript peptide (CART) plays a role in the manifestation of depression: social isolation and olfactory bulbectomy models reveal unifying principles. *Neuropsychopharmacology* 34(5); 1288-1300.
65. Dandekar MP, Singru PS, **Kokare DM**, Subhedar NK (2008). Transient up-regulation of cocaine- and amphetamine-regulated transcript peptide (CART) immunoreactivity following ethanol withdrawal in rat hypothalamus. *Brain Research* 1240; 119-131.
66. **Kokare DM**, Singru PS, Dandekar MP, Chopde CT, Subhedar NK (2008). Involvement of alpha-melanocyte stimulating hormone (α -MSH) in differential ethanol exposure and withdrawal related depression in rat: neuroanatomical-behavioral correlates. *Brain Research* 1216; 53-67.
67. Dandekar MP, Singru PS, **Kokare DM**, Lechan RM, Thim L, Clausen JT, Subhedar NK (2008). Importance of cocaine- and amphetamine-regulated transcript peptide in the central nucleus of amygdala in anxiogenic responses induced by ethanol withdrawal. *Neuropsychopharmacology* 33; 1127-1136.
68. Ugale RR, Sharma AN, **Kokare DM**, Hirani K, Subhedar NK, Chopde CT (2007). Neurosteroid allopregnanolone mediates anxiolytic effect of etifoxine in rats. *Brain Research* 1184; 193-201.
69. Kalange AS, **Kokare DM**, Singru PS, Upadhya MA, Chopde CT and Subhedar NK (2007). Central administration of selective melanocortin-4 receptor antagonist HS014 prevents morphine tolerance and withdrawal hyperalgesia. *Brain Research* 1181; 10-20.
70. Sharma AN, Chopde CT, Hirani K, **Kokare DM**, Ugale RR (2007). Chronic progesterone treatment augments while dehydroepiandrosterone sulphate prevents tolerance to ethanol anxiolysis and withdrawal anxiety in rats. *European*

Journal of Pharmacology 567; 211-222.

71. Goyal SN, **Kokare DM**, Chopde CT, Subhedar NK (2006). Alpha-melanocyte stimulating hormone antagonizes antidepressant-like effect of neuropeptide Y in Porsolt's test in rats. *Pharmacology, Biochemistry and Behavior* 85; 369-377.
72. **Kokare DM**, Chopde CT, Subhedar NK (2006). Participation of alpha-melanocyte stimulating hormone in ethanol induced anxiolysis and withdrawal anxiety in rats. *Neuropharmacology* 51; 536-545.
73. **Kokare DM**, Patole AM, Carta A, Chopde CT, Subhedar NK (2006). GABA_A receptors mediate the orexin-A induced stimulation of food intake. *Neuropharmacology* 50; 16-24.
74. **Kokare DM**, Dandekar MP, Chopde CT, Subhedar N (2005). Interaction between neuropeptide Y and alpha-melanocyte stimulating hormone in amygdala regulates anxiety in rats. *Brain Research* 1043; 107-114.
75. Rao TL, **Kokare DM**, Sarkar S, Khisti RT, Chopde CT, Subhedar N (2003). GABAergic drugs prevent alpha-melanocyte stimulating hormone induced anxiety and anorexia. *Pharmacology, Biochemistry and Behavior* 76; 417-423.

Research Presentations

1. Dudhe TA, Chopde TV, Dudhbhate BB, Choudhary AG, **Kokare DM** (2020). Studies on the modulation of cocaine- and amphetamine-regulated transcript (CART) peptide following deep brain stimulation of medial forebrain bundle in the chronic stress induced depression in rat. Presented at School of Pharmacy and School of Chemical Sciences Jointly Organized International Conference on Drug discovery and Development: Lab to Clinic (DDD LC-2020), SRTM University, Nanded, Maharashtra, India. PN 67.
(Received First prize in poster presentation)
2. Katariya RA, Khare KB, Kawade HM, **Kokare DM** (2020). Participation of TRPV3 channels in the acute, chronic and withdrawal effect of ethanol for reward and reinforcement. Presented at School of Pharmacy and School of Chemical Sciences Jointly Organized International Conference on Drug discovery and Development: Lab to Clinic (DDD LC-2020), SRTM University, Nanded, Maharashtra, India. PN 62.
(Received Second prize in poster presentation)
3. Waghade AM, Awathale SN, **Kokare DM** (2020). Glutamatergic inputs from superior colliculus (SC) to hippocampal area are might be essential to support reward memory. Presented at School of Pharmacy and School of Chemical Sciences Jointly Organized International Conference on Drug discovery and Development: Lab to Clinic (DDD LC-2020), SRTM University, Nanded, Maharashtra, India. PN 53.
4. Sneha at IISER
5. **Kokare DM**. (2019). Participation of neuropeptide alpha-melanocyte stimulating hormone (α -MSH) in the neurobiology of alcoholism: Pre-clinical evaluation. Presented at International conference Humbolt Kolleg on Comparative Endocrinology and Physiology on January 7-9, 2019 at Surabardi, Nagpur (PP-6).
6. Pradhan DR, Kumar S, Singh O, Saha S, Choudhary AG, **Kokare DM**, Goswami CG, Singru PS (2019). Organization and importance of transient receptor potential

melastatin (TRPM8) ion channel in the mouse brain. Presented at Humboldt Kolleg on comparative endocrinology and physiology, January 7-9, 2019, Department of Zoology, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

7. Nagalaksmi B, Sagarkar S, Choudhary AG, **Kokare DM**, Sakharkar AJ (2018). DNA methylation blocks trauma-induced SOD2 expression in hippocampus after repeated episodes of traumatic stress. Presented at 7th annual conference of the society for mitochondrial research and medicine "Targetting mitochondria for health and disease". November 28-30, 2018, CSIR-Central Drug Research Institute, Lucknow (P45).
8. Kawade HM, Shambharkar AS, Borkar CD, Subhedar NK, **Kokare DM**. (2018). Neurobehavioral deficits following acute NMDA receptor blockade in developing mouse brain: a model for Attention Deficit Hyperactivity Disorder. Presented at International Conference on neuroscience and XXXVI Annual Meeting of Indian Academy of Neuroscience. October 29-31, 2018, BHU, Varanasi, India (IAN62)
9. Dhole VS, Kawane DN, Choudhari AG, Subhedar NK, **Kokare DM**. (2018). Deep brain stimulation of medial forebrain bundle in chronic mild stress rat restores decreased BDNF level. Presented at International Conference on neuroscience and XXXVI Annual Meeting of Indian Academy of Neuroscience. October 29-31, 2018, BHU, Varanasi, India (IAN39)
10. Thakur SS, Lanke SU, Awathale SN, Borkar CD, Subhedar NK, **Kokare DM**. (2018). Adolescent intermittent ethanol exposure perturbs food reward functions in adulthood: involvement of the dopaminergic system. Presented at International Conference on neuroscience and XXXVI Annual Meeting of Indian Academy of Neuroscience. October 29-31, 2018, BHU, Varanasi, India (IAN152)
11. Rahangdale RR, Awathale SN, Borkar CD, Subhedar NK, **Kokare DM**. (2018). Prevention of food access as a model of anger-like behaviour in rats: an involvement of serotonergic system. Presented at International Conference on neuroscience and XXXVI Annual Meeting of Indian Academy of Neuroscience. October 29-31, 2018, BHU, Varanasi, India (IAN115)
12. Fakir JS, Bhope SS, Choudhary AG, Subhedar NK, **Kokare DM**. (2018). Influence of minimal traumatic brain injury on the reward and reinforcement: Involvement of nitric oxide system. Presented at International Conference on neuroscience and XXXVI Annual Meeting of Indian Academy of Neuroscience. October 29-31, 2018, BHU, Varanasi, India (IAN19)
13. Dongare RM, Ingale RR, Kawade HM, Borkar CD, Subhedar NK, **Kokare DM**. (2018). Activation of cholinergic system in zona incerta improves memory and mitigates cholechicine induced amnesia in mice. Presented at International Conference on neuroscience and XXXVI Annual Meeting of Indian Academy of Neuroscience. October 29-31, 2018, BHU, Varanasi, India (IAN118)
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16. Dudhabhate BB, Awathale SN, Borkar CD, Subhedar NK, **Kokare DM**. (2018). A novel single animal approach for the assessment of anger-like behaviour in

rodents. Presented at 50th Annual Conference of Indian Pharmacological Society (IPSCON - 2017) on "Integrating Pharmacology with Modern Healthcare", at Shobhaben Pratap bhai Patel School of Pharmacy & Technology Management, SVKM's NMIMS, Mumbai, India (NPP19)

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(Received Best poster presentation award)

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21. Borkar CD, Bharne AP, Nagalakshmi B., Sakharkar A, Subhedar NK, **Kokare DM**. (2018). Cocaine- and amphetamine-regulated transcript peptide (CART) alleviates the symptoms of MK-801 induced schizophrenic dementia-like condition in rats. Presented at Annual Young Scholar Conference organized by R.T.M. Nagpur University, during National Science Day Celebration (February 28, 2018).

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(Received Best poster presentation award)

25. Nagalakshmi B, Sagarkar S, Choudhary A, **Kokare D**, Sakharkar A. (2016). Mild

traumatic brain injury-induced DNA demethylation-mediated TFAM and TFB2M gene regulation in hippocampus of the rat. Presented at 30th Annual meeting of Society for Neurochemistry India (SNCI) National Conference on Recent Trends in Neurological and Psychiatric Research held by CCMB Hyderabad. P27 (Pg. 71).

26. **Kokare DM**, Nakhate KT, Aru D, Bharne A, Subhedar NK. (2016). Plumbagin ameliorates memory dysfunction in streptozotocin induced Alzheimer's disease like condition in mice. Presented at 7th World Ayurveda Congress in International Conclave on Ethnopharmacology at Science City, Kolkata. Pg. No. 33.
(Received Best poster presentation award)
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33. Gote VN, Khanorkar PS, Somalwar AR, **Kokare DM**. (2015). Role of melanocortin system in the neuroprotective effect of minocycline in experimental autoimmune encephalomyelitis. 48th Annual Conference of Indian Pharmacological Society, Saurashtra University, Rajkot, Gujrat (S80).
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35. Singh U, Kumar S, Shelkar GP, **Kokare DM**, Goswami C, Singru PS. (2015). TRPV3 as a Novel regulator of mesolimbic dopaminergic pathway in food reward. Presented at Second Meeting of Indian Sub-Continental Branch of the

International Neuropeptide Society, Bhubaneswar, Orissa (Oral Presentation).

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38. Sharma PR, Shelkar GP, Subhedar NK, **Kokare DM**. (2015). Neuroprotective effect of CART in Parkinson's Disease: involvement of LC-noradrenergic system. Presented at Second Meeting of Indian Sub-Continental Branch of the International Neuropeptide Society, Bhubaneswar, Orissa (PP15).
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42. Borkar CD, Bhoyar PS, Bharne AP, Subhedar NK, **Kokare DM**. (2015). Anti-nociceptive effect of neuropeptide S may be mediated by K⁺ ATP channels in rat model of neuropathic pain. Presented at Second Meeting of Indian Sub-Continental Branch of the International Neuropeptide Society, Bhubaneswar, Orissa (PP 05).
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45. Awathale SN, Borkar CD, **Kokare DM**. (2015). Therapeutic potential of *Cinnamomum zeylanicum* in the management of male infertility. Presented at 2nd International Congress of Society for Ethnopharmacology (SFEC-2015) organized by Department of Pharmaceutical Sciences, RTM Nagpur University, Nagpur (RP-155) page no-256.
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47. Shelkar GP, Subhedar NK, **Kokare DM**. (2015). Locus coeruleus noradrenergic

system regulates CART self-administration in pVTA. 33rd Annual Conference of Indian Academy of Neuroscience, Panjab University, Chandigarh, INDIA. DM3 Pg. No. 90.

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51. Borkar CD, Singru PS, Subhedar NK, **Kokare DM**. (2014). Cocaine- and amphetamine- regulated transcript peptide (CART) restores the recognition memory at delayed nicotine post-withdrawal period in mice. International Symposium on Transitional Neuroscience and 32nd Annual Conference of the Indian Academy of Neurosciences, NIMHANS, Bangalore. Pg. 79.
52. Singh U, Upadhy M, **Kokare DM**, Goswami C, Singru PS. (2014). Transient receptor potential vanilloid 3 (TRPV3) in the cerebellum of rat: organization and significance. International Symposium on Transitional Neuroscience and 32nd Annual Conference of the Indian Academy of Neurosciences, NIMHANS, Bangalore. Pg. 200.
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54. Bhoyar PS, Yedke SU, Bharne PB, **Kokare DM**. (2013). Role of neuropeptide Y in diabetes-induced depression-like behavior in mice. 46th Annual Conference of Indian Pharmacological Society and International Conference on Translational Pharmacology, NIMHANS, Bangalore. S11
55. Shelkar GP, Subhedar NK, Singru PS, **Kokare DM**. (2013). Influence of locus coeruleus noradrenergic innervations to ventral tegmental area on ethanol reward in rats. 46th Annual Conference of Indian Pharmacological Society and International Conference on Translational Pharmacology, NIMHANS, Bangalore. S3
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(Received First prize in poster presentation)
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enhancement in recognition memory in rats. 46th Annual Conference of Indian Pharmacological Society and International Conference on Translational Pharmacology, NIMHANS, Bangalore. S10

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61. Shelkar GP, Kale AD, Singru PS, Subhedar NK, **Kokare DM**. (2013). Influence of melanocortin system on ethanol self-administration in rats. 45th Annual Conference of Indian Pharmacological Society and International Conference on Navigating Pharmacology towards Safe and Effective Therapy, Nagpur. S-2
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65. Deshmukh A, Bharne AP, **Kokare DM**. (2013). A functional role for cocaine- and amphetamine-regulated transcript (CART) system in the induction and expression of behavioral sensitization to ethanol in mice. 45th Annual Conference of Indian Pharmacological Society and International Conference on Navigating Pharmacology towards Safe and Effective Therapy, Nagpur
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68. Shelkar GP, Kale AD, **Kokare DM**, Singru PS, Subhedar NK. (2012). Influence of melanocortin system on ethanol self-administration in high fat diet fed rats. One-day National conference on "Pharmaceutical Science for Shaping the Future of India" held at Nagpur
(Received First prize in poster presentation)
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injury in mice. National conference on "Pharmaceutical Science for Shaping the Future of India" held at Nagpur

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(Received Prof. Ch. R. K. Murthy memorial prize for Best Oral Presentation)
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75. Shelkar GP, Nakhate KT, Singru PS, **Kokare DM**, Subhedar NK. (2011). Effect of circadian rhythm disturbance on cFos and CART peptide in the brain of rat. 44th Annual Conference of Indian Pharmacological Society and Challenges Ahead in Translational Pharmacology, Manipal. S-210
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(Received O. D. Gulati prize for best oral paper presentation)
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Punjab. PC-18.

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(Received Govind Achari gold medal for best oral presentation)
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(Presented in selected poster session for Dandiya prize)
82. Upadhya MA, **Kokare DM**, Subhedar NK. (2010). Cat induced fear in rats: involvement of endogenous CART. 43rd Annual Conference of Indian Pharmacological Society and International Conference on Pharmacology and Translation Research and ICMR Centenary Year Celebrations from 13-16th December, 2010, NIN, Hyderabad.
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86. Mishra NM, Nakhate KT, **Kokare DM**, Subhedar NK. (2009). Effect of chemically induced mammary carcinogenesis on the hypothalamic cocaine- and amphetamine-regulated transcript peptide in rats: Correlation with feeding behavior. 42nd Annual Conference of Indian Pharmacological Society and International Conference on Integrative and Personalized Medicine, Kolkata. Pp S24.
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with chronic malaria and reduced HDL level in blood. Young Researcher's Conference '09, Institute of Chemical Technology, Deemed University, Mumbai.

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91. **Kokare DM**, Deo GS, Dandekar MP, Subhedar NK. (2008). Neuropeptide Y Y1 receptors in the central nucleus of amygdala mediate the anxiolytic-like effect of progesterone in mice: Behavioral and immunocytochemical evidences. 41st Annual Conference of Indian Pharmacological Society and International Conference on Translational Pharmacology, AIIMS, New Delhi. Pp S129.
92. Rangani RJ, Bharne AP, Upadhya MA, **Kokare DM**, Dandekar MP, Subhedar NK. (2008). Antagonism of serotonergic system potentiates the effect of alpha-melanocyte-stimulating hormone on locomotor recovery after experimental spinal cord injury. 41st Annual Conference of Indian Pharmacological Society and International Conference on Translational Pharmacology, AIIMS, New Delhi. Pp S183.
93. Rangani RJ, Deo GS, **Kokare DM**, Subhedar NK. (2008). Evidence for involvement of cocaine- and amphetamine-regulated transcript peptide (CART) in the actions of allopregnanolone with reference to anxiety-like behavior in mice. 60th Indian Pharmaceutical Congress, New Delhi. Pp 348.
94. Upadhya MA, Bharne AP, **Kokare DM**, Subhedar NK. (2008). Role of cocaine- and amphetamine-regulated transcript peptide in the effect of corticosteroids on locomotor recovery in spinal cord injured mice. 60th Indian Pharmaceutical Congress, New Delhi. Pp 346.

(Received best poster presentation award)

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101. Bhorkar AA, Deo GS, **Kokare DM**, Dandekar MP, Subhedar N. (2007). Alpha-melanocyte stimulating hormone regulates the acute and chronic actions of caffeine in the central nucleus of amygdala in social interaction test in mice. 59th Indian Pharmaceutical Congress, Varanasi. Pp 330.
102. Dandekar MP, Singru PS, **Kokare DM**, Subhedar N. (2007). Effect of ovariectomy and estradiol on the cocaine- and amphetamine-regulated transcript peptide (CART)-immunoreactivity in the rat brain: correlation with food intake. National symposium on Comparative Endocrinology and Reproductive Physiology: Insights and challenges, Santiniketan (West Bengal). Pp 64.
103. Dandekar M, Singru PS, Nakhate K, **Kokare DM**, Jain MR, Subhedar N. (2007). Effect of dehydration and rehydration on the cocaine- and amphetamine-regulated transcript peptide (CART)-immunoreactivity in the rat brain. National symposium on Comparative Endocrinology and Reproductive Physiology: Insights and challenges, Santiniketan (West Bengal). Pp 73.
104. Dandekar M, Sharma A, Bhisikar S, Upadhyay M, Singru P, **Kokare DM**, Chopde C, Subhedar N. (2007). Effect of castration on cocaine- and amphetamine-regulated transcript peptide (CART)-immunoreactivity in the rat brain: correlation with depression-like behavior. National symposium on Comparative Endocrinology and Reproductive Physiology: Insights and challenges, Santiniketan (West Bengal). Pp 86.
105. Deo GS, Dandekar MP, **Kokare DM**, Subhedar NK. (2007). Studies on the interaction between neuropeptide Y and allopregnanolone in the regulation of anxiety-like behavior in mice. 40th Annual Conference of Indian Pharmacological Society, NIPER, Mohali. Pp 120.
106. Kamdi SP, Nakhate KT, Dandekar MP, **Kokare DM**, Subhedar NK. (2007). Studies on the role of neuropeptide Y in acute, chronic and withdrawal responses of nicotine on feeding behavior in obese rats. 40th Annual Conference of Indian Pharmacological Society, NIPER, Mohali. Pp 120.
107. **Kokare DM**, Bhorkar AA, Dandekar MP, Subhedar NK. (2007). Contribution of melanocortin system in anxiogenic-like effect of caffeine employing social interaction test in adrenalectomized mice. 40th Annual Conference of Indian Pharmacological Society, NIPER, Mohali. Pp 121.
108. Dandekar MP, **Kokare DM**, Singru PS, Subhedar NK. (2007). Cocaine- and amphetamine-regulated transcript (CART)-containing system in the brain may play a major role in the manifestation of depression: social isolation and olfactory bulbectomy models reveal unifying principles. 40th Annual Conference of Indian Pharmacological Society, NIPER, Mohali. Pp 62.

109. Upadhya MA, Dandekar MP, Singru PS, **Kokare DM**, Subhedar NK. (2007). Involvement of neuropeptide Y in the acute, chronic and withdrawal responses of morphine in nociception using neuropathic rats: behavioral and immunocytochemical correlates. 40th Annual Conference of Indian Pharmacological Society, NIPER, Mohali. Pp 205.
110. Nakhate KT, Dandekar MP, **Kokare DM**, Subhedar NK. (2007). Participation of neuropeptide Y in acute, chronic and withdrawal responses of nicotine on feeding behavior: possible involvement of neuropeptide Y Y1 receptor. 40th Annual Conference of Indian Pharmacological Society, NIPER, Mohali. Pp 61.
111. Bharne AP, Dandekar MP, **Kokare DM**, Sharma AN, Bhisikar SM, Chopade CT, Subhedar NK. (2007). Role of neuropeptide Y in orchidectomy induced anxiety and depression in rats: behavioral and neuroanatomical correlates. 40th Annual Conference of Indian Pharmacological Society, NIPER, Mohali. Pp 120.
112. Bhorkar AA, **Kokare DM**, Chopde CT, Subhedar NK. (2006). Involvement of melanocortin system in caffeine induced anxiety behavior employing social interaction test in mice. 58th Indian Pharmaceutical Congress, Mumbai. Pp 45.
113. Nakhate KT, **Kokare DM**, Chopde CT, Subhedar NK. (2006). Evidence for the role of neuropeptide Y Y1 receptors in the anorectic action of nicotine in rats. 58th Indian Pharmaceutical Congress, Mumbai. Pp 44.
114. Upadhya MA, **Kokare DM**, Chopde CT, Subhedar NK. (2006). Morphine induced antinociception in neuropathic rats: modulation by neuropeptide Y. 58th Indian Pharmaceutical Congress, Mumbai. Pp 231.
(Received best poster presentation award)
115. **Kokare DM**, Bhisikar SM, Dandekar MP, Chopde CT, Subhedar NK. (2006). α -Melanocyte stimulating hormone modulates the ethanol induced sedation, tolerance and withdrawal hyper-excitability in mice. 58th Indian Pharmaceutical Congress, Mumbai. Pp 46.
116. **Kokare DM**, Kalange AS, Chopde CT, Subhedar NK. (2006). Ethanol induced hypothermia and withdrawal hyperthermia in rats: Role of melanocortin 4 receptors. 58th Indian Pharmaceutical Congress, Mumbai. Pp 227.
117. Bhorkar AA, Bhisikar SM, **Kokare DM**, Chopde CT, Subhedar NK. (2006). Ethanol induced sedation, tolerance and withdrawal hyper-excitability: Role of neuropeptide Y Y1 receptors. 39th Annual Conference of Indian Pharmacological Society, Jaipur. Pp S48.
118. **Kokare DM**, Singru PS, Dandekar MP, Chopde CT, Subhedar NK. (2006). Central melanocortin 4 receptors (MC4 R) mediate acute, chronic and withdrawal effects of ethanol in rats: neuroanatomical and behavioral correlates. 39th Annual Conference of Indian Pharmacological Society, Jaipur. Pp S50.
119. Nakhate KT, Meena H, **Kokare DM**, Chopde CT, Subhedar NK. (2006). Involvement of nucleus accumbens GABA_A receptors in the haloperidol induced hyperphagia and weight gain. 39th Annual Conference of Indian Pharmacological Society, Jaipur. Pp S8.
120. Dandekar MP, Singru PS, **Kokare DM**, Lechan RM, Thim L, Clausen JT, Subhedar NK. (2006). Importance of cocaine- and amphetamine-regulated transcript peptide (CARTp) in the hypothalamus and amygdala to anxiogenic

responses induced by ethanol withdrawal. 39th Annual Conference of Indian Pharmacological Society, Jaipur. Pp S8.

(Received P. C. Dandiya gold medal for poster presentation)

121. Upadhya MA, Kalange AS, **Kokare DM**, Singru PS, Chopde CT, Subhedar NK. (2006). Selective melanocortin-4 receptor antagonist HS014 prevented morphine tolerance and withdrawal hyperalgesia. 39th Annual Conference of Indian Pharmacological Society, Jaipur. Pp S3.

(Received Govind Achari gold medal for best oral presentation)

122. Pendharkar OS, Borkar RM, **Kokare DM**, Sable B, Mohurle SK. (2006). Clinical evidence for similar antigenic character of trypanosome parasite with Plasmodium falciparum in trypanosomiasis patient in India: Incorrectly diagnosed as malarial infection. Global Sustainable 2nd Bio-Tech Congress 2006 AD, Nagpur. Pp 229.
123. Subhedar N, Sakharkar A, **Kokare DM**. (2005). Neuronal nitric oxide synthase as a marker for NO in the CNS. 37th Annual Conference of Indian Pharmacological Society, Kolkata. Pp 109.
124. Gupta GL, **Kokare DM**, Chopde CT, Subhedar NK. (2005). Selective melanocortin MC-4 receptor blockage by HS014 reduced social isolation stress-induced behaviors in rats. 37th Annual Conference of Indian Pharmacological Society, Kolkata. Pp S50.
125. Goyal SN, **Kokare DM**, Chopde CT, Subhedar NK. (2005). Behavioral action of neuropeptide-Y in Porsolt's forced swim test: Modulation by MC-4 receptors. 37th Annual Conference of Indian Pharmacological Society, Kolkata. Pp S50.
126. Parmar SK, **Kokare DM**, Chopde CT, Subhedar NK. (2005). Involvement of neuropeptide Y (Y1) receptors in hyperphagic effect of ethanol. 37th Annual Conference of Indian Pharmacological Society, Kolkata. Pp S26.
127. **Kokare DM**, Meena H, Subhedar N. (2005). Elimination of spillage during food intake studies in rat: application of oil mash. 10th Association of Pharmaceutical Teachers of India National Convention, Nagpur. Pp 128.
128. Borkar RM, Pendharkar OS, **Kokare DM**, Sable B. (2005). Clinical incidence of trypanosomiasis- a matter of concern. 10th Association of Pharmaceutical Teachers of India National Convention, Nagpur. Pp 52.
129. **Kokare DM**, Goyal S, Dandekar MP, Chopde CT, Subhedar N. (2005). The melanocortin 4 receptor plays a role in the antidepressant effect of ethanol and withdrawal depression in rats. 57th Indian Pharmaceutical Congress, Hyderabad. Pp 61.
130. **Kokare DM**, Gupta G, Kalange AS, Chopde CT, Subhedar N. (2005). Benzodiazepine induced anxiolysis, tolerance and abstinence anxiety: modulation by melanocortin system. 57th Indian Pharmaceutical Congress, Hyderabad. Pp 64.
131. **Kokare DM**, Goyal S, Bhisikar SM, Chopde CT, Subhedar N. (2005). Involvement of neuropeptide Y Y1 receptors in the antidepressant action of imipramine in olfactory bulbectomized rat. 57th Indian Pharmaceutical Congress, Hyderabad. Pp 64.
132. **Kokare DM**, Parmar S, Meena H, Chopde CT, Subhedar N. (2005). Evidence for the role of neuropeptide Y Y1 receptors in the effect of ethanol on food intake

and withdrawal anorexia. 57th Indian Pharmaceutical Congress, Hyderabad. Pp 248.

133. Bhisikar SM, **Kokare DM**, Chopde CT, Subhedar N. (2005). Neuropeptide Y Y1 receptor modulates sedation and acute tolerance following ethanol administration in mice. 38th Annual Conference of Indian Pharmacological Society, Chennai. Pp S6.
(Received P. C. Dandiya gold medal for poster presentation)
134. Kalange AS, **Kokare DM**, Chopde CT, Subhedar N. (2005). Melanocortin MC-4 receptor antagonist HS014 attenuated hyperalgesia following ethanol withdrawal in rats. 38th Annual Conference of Indian Pharmacological Society, Chennai. Pp S6.
135. Meena H, **Kokare DM**, Chopde CT, Subhedar N. (2005). GABA_A receptors in the nucleus accumbens shell mediate hyperphagic effect of haloperidol in sated rats. 38th Annual Conference of Indian Pharmacological Society, Chennai. Pp S3.
136. **Kokare DM**, Chopde CT, Subhedar N. (2005). Central melanocortin system regulates the action of ethanol on food intake and withdrawal anorexia. 38th Annual Conference of Indian Pharmacological Society, Chennai. Pp S22.
137. Patole A, Dandekar M, **Kokare D**, Chopde C, Subhedar N. (2004). Orexin-A induced stimulation of food intake in rats: Mediation of GABA_A receptors. International Symposium on Recent Advances in Pharmacology, New Delhi. Pp 119.
138. **Kokare DM**, Patole AM, Parmar S, Chopde CT, Subhedar N. (2004). GABA_A receptors mediate orexins induced hyperphagia. 56th Indian Pharmaceutical Congress, Kolkata. Pp 243.
139. **Kokare DM**, Dandekar MN, Goyal SN, Chopde CT, Subhedar N. (2004). Interaction between neuropeptide Y and alpha-melanocyte stimulating hormone in amygdala regulates anxiety in rats. 56th Indian Pharmaceutical Congress, Kolkata. Pp 243.
140. **Kokare DM**, Gupta G, Chopde CT, Subhedar N. (2004). Involvement of melanocortin system in ethanol induced anxiolysis and withdrawal anxiety. 56th Indian Pharmaceutical Congress, Kolkata. Pp 246.
141. Dandekar M, Patole A, **Kokare D**, Chopde CT, Subhedar N. (2003). Evidence for an interaction between neuropeptide-Y Y1 receptors and alpha-melanocyte stimulating hormone in regulation of anxiety behavior in rats. National Symposium on Current Trends in Comparative Endocrinology: Impact of Molecular Biology and Biotechnology, Nagpur. Pp 23.
142. **Kokare DM**, Sakharkar AJ, Subhedar N. (2002). Effects of Ca⁺⁺ and verapamil on the C-cells in the thyroid of rat. 34th Annual Conference of Indian Pharmacological Society, Nagpur. Pp 34.
143. **Kokare DM**, Harle UN, Chopde CT, Subhedar NK. (2002). Role of endogenous α -MSH in anxiolytic effect of ethanol. 35th Annual Conference of Indian Pharmacological Society, Gwalior. Pp 286.
144. Harle UN, **Kokare DM**, Chopde CT, Subhedar NK. (2002). Potentiation of morphine induced anxiolytic effect in α -MSH immuno-neutralized rats. 35th Annual Conference of Indian Pharmacological Society, Gwalior. Pp 139.

145. Rao TL, **Kokare D**, Sarkar S, Khisti R, Chopde CT, Subhedar N. (2002). Diazepam prevents α -MSH induced anxiety and suppression of food intake. 54th Indian Pharmaceutical Congress, Pune. Pp 74.
146. **Kokare D**, Sakharkar A, Subhedar N. (2000). Calcitonin secreting parafollicular cells in the thyroid respond to calcium treatment in vitro. National Conference on Endocrinology, Ranchi. Pp. 26-27.

Education

2015 (Jan-July) Dept. of Psychiatry UIC, Chicago, USA

Post-Doctoral Research

2008 - 2001 University Dept. of Pharm. Sci. R. T. M. Nagpur University

Ph. D. (Pharmacology)

2000 -1999 University Dept. of Pharm. Sci. Nagpur University

Master of Pharmacy (Pharmacology)

64.50%

Qualified Graduate Aptitude Test in Engineering (GATE-99) 81.58 percentile

1999 – 1995 Govt. College of Pharmacy, Karad Shivaji University

Bachelor of Pharmacy

66.65%

1995 – 1993 S. V. P. M's. Institute of Pharmacy, Baramati B.T.E., Mumbai

Diploma in Pharmacy

54.38%

Passed **MS-CIT** examination with 76 percentile (Conducted by Govt. of Maharashtra)

Credentials

Received First prize in poster presentation at School of Pharmacy and School of Chemical Sciences Jointly Organized International Conference on Drug discovery and Development: Lab to Clinic (DDD LC-2020), SRTM University, Nanded for the research work entitled "Studies on the modulation of cocaine- and amphetamine-regulated transcript (CART) peptide following deep brain stimulation of medial forebrain bundle in the chronic stress induced depression in rat" by Dudhe TA, Chopde TV, Dudhbhate BB, Choudhary AG, **Kokare DM** (January 2020).

Received Second prize in poster presentation at School of Pharmacy and School of Chemical Sciences Jointly Organized International Conference on Drug discovery and Development: Lab to Clinic (DDD LC-2020), SRTM University, Nanded for the research work entitled "Participation of TRPV3 channels in the acute, chronic and withdrawal effect of ethanol for reward and reinforcement" by Katariya RA, Khare KB, Kawade HM, **Kokare DM** (January 2020).

Received First prize in oral research presentation at Annual Young Scholar Conference organized by R.T.M. Nagpur University, Nagpur (**AYSC - 2018**) during National Science Day Celebration for the research work entitled "Cocaine- and

amphetamine-regulated transcript peptide (CART) alleviates the symptoms of MK-801 induced schizophrenic dementia-like condition in rats” by Borkar CD, Bharne AP, Nagalakshmi B, Sakharkar A, Subhedar NK, **Kokare DM**. (February 28, 2018).

Received Best poster presentation award at 50th Annual Conference of Indian Pharmacological Society (IPSCON - 2017) on “Integrating Pharmacology with Modern Healthcare”, at Shobhaben Pratap bhai Patel School of Pharmacy & Technology Management, SVKM's NMIMS, Mumbai, India (2018) for the research work entitled “Intracellular signaling cascade underlying rewarding effects of cocaine and amphetamine-regulated transcript peptide (CART)” by **Kokare DM**, Somalwar AR, Choudhary AG, Sharma PR, Subhedar NK. (NPP22).

Received Best poster presentation award at 4th National Convention of Society for Ethnopharmacology held at School for Natural Products Studies at Jadavpur University, Kolkata, India (2017) for the research work entitled “Nymphaea odorata Aiton (Nymphaeaceae) root extracts inhibit the growth of the Breast Cancer Cell Line MCF-7 cell by inducing apoptosis” by **Kokare DM**, Raut NA, Patel S, TO Lawal, GB Mahady (September 9-10, 2017).

Conferred with **Best Scientist award** by Rashttrasant Tukadoji Maharaj Nagpur University, Nagpur on the occasion of Teachers Day celebration on September 5, 2017 at Gurunanak Hall, Nagpur

Conferred with **Best Poster presentation award** for the research work entitled Plumbagin ameliorates memory dysfunction in streptozotocin induced Alzheimer's disease like condition in mice by **Kokare DM**, Nakhate KT, Aru D, Bharne A, Subhedar NK. Presented at 7th World Ayurveda Congress in International Conclave on Ethnopharmacology at Science City, Kolkata (2016). Pg. No. 33

Conferred with **Uvnas Prize** at 49th Annual Conference of Indian Pharmacological Society organized by PGIMER, Chandigarh (2016) for the research article published in Addiction Biology (2016; 21, 766–775) entitled “Neuropeptide Y system in accumbens shell mediates ethanol self-administration in posterior ventral tegmental area” by Borkar CD, Upadhya MA, Shelkar GP, Subhedar NK, **Kokare DM**.

Conferred with **First Prize in Poster presentation** at 21st Annual National Convention of Association of Pharmaceutical Teachers of India (APTI) on “Roadmap for quality pharmacy education and research” held at Manipal (2016) for the research work entitled “Role of energy homeostasis in reproductive behavior: Involvement of cocaine- and amphetamine-regulated transcript peptide (CART)” by **Kokare DM**, Awathale SN, Borkar CD, Subhedar NK.

Conferred with Association of Pharmaceutical Teachers of India (APTI) **Young Pharmacy Teacher of the Year Award** at 21st Annual National Convention of APTI at Manipal on October 2016.

UGC Raman Post-Doctoral Research Fellowship awarded for the year 2014-15 to conduct research work at Department of Psychiatry, University of Illinois at Chicago, Illinois, USA during January 20, 2015 to July 19, 2015.

Conferred with Association of Pharmaceutical Teachers of India (APTI), Maharashtra Branch **Smt. Kishoritai Bhoyar College of Pharmacy Young Teacher Award** at Annual Convention of APTI at Pune on December 2014.

Conferred with **First Prize in Poster presentation** at 46th Annual Conference of Indian Pharmacological Society and International Conference on Translational Pharmacology, NIMHANS, Bangalore (2013) for the research work entitled “Melanocortin 4 receptors modulated nicotine induced brain stimulation reward in rats” by **Kokare DM**, Trivedi HR, Upadhy MA, Subhedar NK.

Science and Engineering Research Board (SERB), Department of Science and Technology, New Delhi, awarded International travel grant to attend and present research paper entitled “Ethanol reward in high fat (HF) diet fed rats: possible involvement of melanocortin 4 (MC4) receptors” by **Kokare DM**, Shelkar GP, Kale AD, Subhedar NK (2013) at First Annual Conference on Pharmaceutical Sciences and Pharmacology, Singapore. 28

Received **Olson award** instituted by the International Neuropeptide Society and given to the authors of the outstanding contribution made to the journal *Peptides* published by Elsevier Publishing Company for the research article entitled “Nicotine evoked improvement in learning and memory is mediated through NPY Y1 receptors in rat model of Alzheimer’s disease” by Rangani RJ, Upadhy MA, Nakhate KT, **Kokare DM**, Subhedar NK, *Peptides* 33; 317-328 (2012).

Conferred with **Suryakumari prize** at 45th Annual Conference of Indian Pharmacological Society and International Conference on Navigating Pharmacology towards Safe and Effective Therapy, Nagpur (2013) for the research article published in *Behavioural Brain Research* (2011, 219; 31-38) entitled “Effect of nicotine on feeding and body weight in rats: involvement of cocaine- and amphetamine-regulated transcript peptide” by Dandekar MP, Nakhate KT, **Kokare DM**, Subhedar NK.

Conferred with **First Prize in Poster presentation** at One-day National conference on “Pharmaceutical Science for Shaping the Future of India” held at Nagpur (2012) for the research work entitled “Influence of melanocortin system on ethanol self-administration in high fat diet fed rats” by Shelkar GP, Kale AD, **Kokare DM**, Singru PS, Subhedar NK.

Department of Biotechnology, New Delhi, awarded International travel grant to attend and present research paper entitled “Nicotine induced brain stimulation reward in ovariectomized rats: Modulation by melanocortin 4 receptors” by **Kokare DM**, Trivedi HR, Upadhy MA, Subhedar NK (2012) at 13th International Congress of the Society for Ethnopharmacology at University of Graz, Austria.

Received **Prof. Ch. R. K. Murthy memorial prize to Best Oral Presentation** in the 26th Annual meeting of Society for Neurochemistry, India (SNCI) and International conference on ‘Rejuvenation Neurochemistry: Bedside to Bench and Back to Bedside’, at Central India Institute of Medical Sciences, Nagpur (2012) for the research work entitled “CART system in hypothalamus regulates the endotoxin triggered hypothermia in rats: physiological and immunocytochemical correlates” by Trivedi HR, Upadhy MA, **Kokare DM**, Subhedar NK.

Received **Prof. O. D. Gulati prize for Best Research Paper** presented at 44th Annual Conference of Indian Pharmacological Society and Challenges Ahead in Translational Pharmacology, Manipal (2011) for the research work entitled “Cocaine- and amphetamine-regulated transcript (CART) serves as neuroprotective peptide in various neurodegenerative disorders” by Trivedi HR, Upadhya MA, **Kokare DM**, Subhedar NK.

Conferred with **Uvnas Prize** at 44th Annual Conference of Indian Pharmacological Society and Challenges Ahead in Translational Pharmacology, Manipal (2011) for the research article published in *British Journal of Pharmacology* (2011, 164; 704-718) entitled “Agmatine in the Hypothalamic Paraventricular Nucleus Stimulates Feeding in Rats: Involvement of Neuropeptide Y” by Taksande BG, Kotagale NR, Nakhate KT, Mali PD, **Kokare DM**, Hirani K, Subhedar NK, Chopde CT, Ugale RR.

Received **Prof. Govind Achari Gold Medal for Best Research Paper** presented at 43rd Annual Conference of Indian Pharmacological Society and International Conference on Pharmacology and Translation Research and ICMR Centenary Year Celebrations, NIN, Hyderabad (2010) entitled “A role for cocaine- and amphetamine-regulated transcript peptide (CART) in morphine induced reward and reinforcement” by Desai SJ, Upadhya MA, Nakhate KT, **Kokare DM**, Singru PS, Subhedar NK.

The research work entitled “Central regulation of feeding behavior during social isolation of rat: evidence for the role of endogenous CART system” by **Kokare DM**, Nakhate KT, Subhedar NK has been chosen for **Selected Poster Session in Prof. P. C. Dandiya Prize** at 43rd Annual Conference of Indian Pharmacological Society and International Conference on Pharmacology and Translation Research and ICMR Centenary Year Celebrations, NIN, Hyderabad (2010).

Conferred with **Jaipur Prize** at 42nd Annual Conference of Indian Pharmacological Society and International Conference on Integrative and Personalized Medicine, Kolkata (2009) for the research article published in *Brain Research* (2008, 1240; 119-131) entitled “Transient up-regulation of cocaine- and amphetamine-regulated transcript peptide (CART) immunoreactivity following ethanol withdrawal in rat hypothalamus” by Dandekar MP, Singru PS, **Kokare DM**, Subhedar NK.

Received **Prof. Govind Achari Gold Medal for Best Research Paper** presented at 41st Annual Conference of Indian Pharmacological Society and International Conference on Translational Pharmacology, AIIMS, New Delhi (2008) entitled “Evidence for involvement of corticotropin-releasing factor (CRF) 2 receptors in acute, chronic and withdrawal responses of nicotine on feeding behavior in rats” by Upadhya MA, Nakhate KT, Kamdi SP, Dandekar MP, **Kokare DM**, Subhedar NK.

Conferred with **Jaipur Prize** at 41st Annual Conference of Indian Pharmacological Society and International Conference on Translational Pharmacology, AIIMS, New Delhi (2008) for the research article published in *Neuropsychopharmacology* (2008, 33; 1127-1136) entitled “Importance of cocaine- and amphetamine-regulated transcript peptide in the central nucleus of amygdala in anxiogenic responses induced by ethanol withdrawal” by Dandekar MP, Singru PS, **Kokare DM**, Lechan RM, Thim L, Clausen JT, Subhedar NK.

Recipient of the **Best Research Paper Award** for the work entitled “Role of cocaine- and amphetamine-regulated transcript peptide in the effect of corticosteroids on locomotor recovery in spinal cord injured mice” by Upadhya MA, Bharné AP, **Kokare DM**, Subhedar NK at 60th Indian Pharmaceutical Congress, New Delhi (2008).

Received **Prof. Govind Achari Gold Medal for Best Research Paper** presented at 39th Annual Conference of Indian Pharmacological Society, Jaipur (2006) entitled “Selective melanocortin-4 receptor antagonist HS014 prevented morphine tolerance

and withdrawal hyperalgesia” by Upadhya MA, Kalange AS, **Kokare DM**, Singru PS, Chopde CT, Subhedar NK.

Received **Prof. P. C. Dandiya Gold Medal for Best Poster** presentation in 39th Annual Conference of Indian Pharmacological Society, Jaipur (2006) entitled “Importance of cocaine- and amphetamine-regulated transcript peptide (CARTp) in the hypothalamus and amygdala to anxiogenic responses induced by ethanol withdrawal” by Dandekar MP, Singru PS, **Kokare DM**, Lechan RM, Thim L, Clausen JT, Subhedar NK.

Recipient of the **Best Research Paper Award** for the work entitled “Morphine induced antinociception in neuropathic rats: modulation by neuropeptide Y” by Upadhya MA, **Kokare DM**, Chopde CT, Subhedar NK in poster session at 58th Indian Pharmaceutical Congress, Mumbai (2006).

Received **Prof. P. C. Dandiya Gold Medal for Best Poster** presentation in 38th Annual Conference of Indian Pharmacological Society, Chennai (2005) entitled “Neuropeptide Y Y1 receptor modulates sedation and acute tolerance following ethanol administration in mice” Bhisikar SM, **Kokare DM**, Chopde CT, Subhedar N.

Honored with **Mrs. Krishna Gulati memorial traveling bursary fellowship award** to present the research paper in 39th Annual Conference of Indian Pharmacological Society, Jaipur (2006).

Senior Research Fellowship awarded for ICAR project under the supervision of Prof. N. K. Subhedar at Department of Pharmaceutical Sciences, RTM Nagpur University, Nagpur for the period of 3 months (March 2003 to June 2003).

Resource person

Invited as **Guest speaker** in “National Conference on Animal Experimentation and Animal Ethics” to demonstrate the technique of intracerebroventricular cannulation and administration of drugs in rats at Mahatma Gandhi Institute of Medical Sciences, Sewagram, Wardha (March 16, 2006).

Served as **Faculty** in the DST sponsored First SERC School in Neurosciences at Department of Pharmaceutical Sciences, R. T. M. Nagpur University, Nagpur (January 27-February 13, 2008).

Invited as **Resource person** in AICTE sponsored staff development programme on ‘Emerging trends in Drug Discovery and Quality Assurance’ at Kamla Nehru College of Pharmacy, Nagpur to deliver talk on ‘Neuroscience: Exploring the brain’ dated Nov 24-Dec 7, 2009.

Invited as **Resource person** in AICTE sponsored National Seminar on ‘Plasmid Based Gene Therapy’ at Institute of Pharmaceutical Education and Research, Wardha to deliver a talk on ‘Genetic manipulation: An animal paradigm’ dated Jan 23-24, 2010.

Invited as **Resource person** in Indian Pharmacological Society and Smt. K. B. College of Pharmacy, Kamptee jointly organized workshop on ‘Surgical and Behavioral Techniques in Neuropharmacology’ to deliver a talk on ‘Stereotaxic surgery in rodent CNS: Basic protocols and applications’ at Smt. K. B. College of Pharmacy, Kamptee dated Feb 27-28, 2010.

Invited as **Resource person** in AICTE sponsored Staff development programme on ‘Health Care Through Pharmacy Practice’ at Institute of Pharmaceutical Education and Research, Wardha to deliver a talk on ‘Pharmacovigilance: Watch on Pharmacy Practice’ dated April 19-30, 2010.

Invited as **Guest Faculty** to deliver a talk on 'The Human Brain: Anatomy and Physiology' at Shri Sacchidanand Shikshan Sanstha's College of Pharmacy, Koradi, Nagpur dated October 04, 2010.

Invited as **Resource person** in AICTE sponsored National seminar on 'Current Challenges and Novel Approaches in Pharmacological Research' at H. R. Patel Institute of Pharmaceutical Education and Research, Shirpur to deliver a talk on 'Pharmacovigilance: Challenges and Opportunities' dated October 23-24, 2010.

Invited as **Resource person** to deliver a talk on 'Mechanism of muscle contraction: Biophysical approach' in certificate course on biophysics organized at Dr. Ambedkar College, Deekshabhoomi, Nagpur dated November 24, 2010.

Invited as **Resource person** to deliver a talk on 'Stereotaxic Neurosurgery: Way into Brain' in University of Pune sponsored three days National level Seminar on 'Behavior, Brain Systems and Preclinical Evaluation' conducted on February 14-16, 2011 at Sinhgad College of Pharmacy, Vadgaon (Bk.), Pune.

Invited as **Judge and Resource person** to evaluate the research presentations made by D. Pharm. students in MSBTE sponsored State level technical paper presentation competition at Anurag College of Pharmacy, Warthi, Bhandara on February 25, 2011.

Invited as **Resource person** to deliver a talk on 'Stereotaxic Neurosurgery: Exploring the Brain' in Third National Symposium on Frontiers in Drug Discovery and Process Research (FDDPR 2010-2011) on March 06, 2011 at Bharati Vidyapeeth College of Pharmacy, Kolhapur.

Invited as **Resource person** to deliver a talk on 'Stereotaxic Neurosurgery: Exploring the Brain' in Refresher course in Life Sciences, UGC-Academic Staff College on March 11, 2011 at Department of Zoology, RTM Nagpur University, Nagpur.

Invited as **Resource person** to deliver a talk on 'Innovative technique to access CNS functions (Stereotaxic Neurosurgery)' in Lead College Scheme of Shivaji University, Kolhapur at College of Pharmacy, Degaon, Satara on September 24, 2011.

Invited as **Resource person** to deliver a talk on 'Innovative technique to access CNS functions (Stereotaxic Neurosurgery)' in Visiting Faculty forum of Rajiv Gandhi Biotechnology Center, RTM Nagpur University, Nagpur on September 28, 2011.

Invited as **Resource person** to deliver a talk on 'Stereotaxic Neurosurgery in Drug Discovery' in AICTE sponsored Industry Institute Partnership Cell one day workshop on Recent trends in drug discovery at Institute of Pharmaceutical Education and Research, Wardha on December 30, 2011.

Invited as **Resource person** to deliver a talk on 'Genetic manipulation: an animal paradigm' in AICTE sponsored two weeks staff development program on Recent trends in Pharmaceutical Biotechnology at Govt. college of Pharmacy, Karad on January 9, 2012.

Invited as **Resource person** to deliver a talk on 'Stereotaxic Neurosurgery in Drug Discovery' in three days National Seminar on 'Emerging trends in Drug Discovery and Drug Development' at SNJB's Shriman Sureshdada Jain College of Pharmacy, Chandwad, Nashik on February 23, 2012.

Invited as **Resource person** to deliver a talk on 'Stereotaxic Neurosurgery in Drug Discovery' in AICTE sponsored staff development programme on 'Emerging trends in

herbal and novel drug delivery system' at Manoharbhair Institute of Pharmacy, Gondia (June 08, 2012).

Served as **Faculty** in the DST sponsored SERB School in Neuroscience (VI edition) at School of Biological Sciences, National Institute of Sciences Education and Research (NISER), Bhubaneswar, Odisha (December 10-22, 2012).

Invited as **Guest speaker** in the pre-conference workshop on Techniques in immunocytochemistry held at 45th Annual Conference of Indian Pharmacological Society and International Conference on Navigating Pharmacology towards Safe and Effective Therapy, Nagpur (January 4, 2013).

Invited as **Guest speaker** to deliver a talk on 'Pre-clinical Biological Evaluation: Gateway to Drug Discovery' in the APTI sponsored one day workshop on Research Methodology held at Dadasaheb Balpande College of Pharmacy, Besa, Nagpur (February 16, 2013).

Invited as **Guest speaker** to deliver a talk on 'Pre-clinical Biological Evaluation: Gateway to Drug Discovery' in the Refresher Course in Life Sciences held at Post-graduate Teaching Department of Biochemistry, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur (February 26, 2013).

Delivered a **seminar** on 'Stereotaxic Neurosurgery: Targeted Drug Delivery in Brain' in the Faculty Development Programme held at Institute of Pharmaceutical Education and Research, Wardha on October 15, 2013.

Invited as **Resource person** to deliver a talk on 'Operant Conditioning: Animal Paradigm to Study Reward' in Refresher course in Life Sciences, UGC-Academic Staff College on March 24, 2014 at Department of Zoology, RTM Nagpur University, Nagpur.

Invited as **Resource person** to deliver a talk on 'Operant Conditioning: Animal Paradigm to Study Reward' in AICTE sponsored Faculty Development Programme held at Sharad Pawar College of Pharmacy, Wanadongri, Nagpur on June 17, 2014.

Acted as **Judge** in one day National Seminar on 'Bioanalytical techniques: Approaches and Challenges' held at Smt. K. B. College of Pharmacy, Kamptee on November 15, 2014.

Invited as **Guest speaker** to deliver a talk on 'Role of alpha-melanocyte stimulating hormone-melanocortin 4 receptors in the neurobiology of alcoholism' in the seminar series held at Department of Psychiatry and Behavioral Sciences, Medical School, The University of Texas, Health Science Center, Houston, Texas, USA (June 26, 2015).

Delivered a seminar as **Resource person** on 'Role of alpha-melanocyte stimulating hormone-melanocortin 4 receptors in the neurobiology of alcoholism' at Neuroscience seminar series at Department of Psychiatry, University of Illinois at Chicago, Illinois, USA on July 6, 2015.

Invited as **Speaker** to deliver a talk on 'Applications of Molecular Biology in Neurosciences' in SERB sponsored First National Symposium on Triggering Drug Discovery and Process Research (TDDPR 2015-16) on September 26, 2015 at Bharati Vidyapeeth College of Pharmacy, Kolhapur.

Invited as **Resource person** to deliver a talk on 'Stereotaxic Neurosurgery: Way into Brain' in Refresher course in Basic Science (Life Science), UGC-Human Resource Development Centre on October 07, 2015 at Department of Zoology, RTM Nagpur University, Nagpur.

Invited as **Resource person** to deliver a talk on 'Funding to Research Project: Agencies, Application and Implementation' in One day State Level Seminar organized by APTI, Maharashtra Branch at Smt. K. B. College of Pharmacy, Kamptee on October 17, 2015.

Invited as **Resource person** to deliver a talk on 'Role of melanocortins in the neurobiology of alcoholism' in SPPU sponsored Two days State Level Seminar organized by Sinhgad College of Pharmacy, Vadgaon, Pune on January 22, 2016.

Invited as **Resource person** to deliver a talk on 'Stereotaxic neurosurgery in drug discovery' in SPPU sponsored One day State Level Seminar organized by Padmashree Dr. D. Y. Patil College of Pharmacy, Akurdi, Pune on January 28, 2016.

Invited as **Resource person** to deliver a talk on 'Funding to Research Project: Agencies, Application and Implementation' in Annual Convention of APTI, Maharashtra State Branch (APTICON 2016) at St. Charles Centenary Auditorium, Nagpur on March 20, 2016.

Invited as **Resource person** to deliver a talk on 'Funding to Research Project: Agencies, Application and Implementation' in Technology Park, RTMNU, Nagpur sponsored symposium on Marching towards Innovative Research at Rajiv Gandhi Biotechnology Centre, Nagpur on March 21, 2016.

Invited as **Resource person** to deliver a talk on 'Stereotaxic Neurosurgery: tool for drug discovery' in Refresher course in Biology (Life Sciences) conducted by UGC-Human Resource Development Centre, RTMNU, Nagpur on November 9, 2017.

Invited as **Resource person** to deliver a talk on 'Funding to Research Project: Agencies, Application and Implementation' in APTI sponsored National Seminar on Writing manuscripts, research proposals and extending consultancies at Dadasaheb Balpande College of Pharmacy, Besa, Nagpur on February 24, 2018.

Invited as **Resource person** to deliver a talk on 'Stereotaxic Neurosurgery: Way into Brain' in IBRO-APRC-Associate School of Neuroscience on Recent Advances in tools and techniques in neuroscience research at Department of Biotechnology, Savitribai Phule Pune University, Pune on March 26-31, 2018.

Invited as **Resource person** to deliver a talk on 'Immunohistochemistry: Theory and Applications' in Refresher course in Biology (Life Sciences) conducted by UGC-Human Resource Development Centre, RTMNU, Nagpur on September 18, 2018.

Invited as **Resource person** to deliver a talk on 'Writing Skills: Special emphasis on research papers and research grants' at Kamla Nehru College of Pharmacy, Nagpur on January 28, 2019.

Acted as **Judge** for oral presentations in Zonal conference 'NUTRICON 2018' organized by Nutrition Society of India (Nagpur Chapter) on December 9, 2018.

Acted as **Resource person** and **Evaluator** for scientific papers in the SPER 8th Annual International Conference and Exhibition (SPER 2019) held at Institute of Pharmaceutical Education and Research, Wardha on February 23, 2019.

Acted as **Judge** for scientific poster presentation in the International Conference on 'Redefining Environmental Governance for Smart City' organized by Department of Hindi, RTMNU, Nagpur in association with Shikshan Manch on March 02, 2019.

Invited as **Resource Person** to deliver a talk on 'Immunohistochemistry: Theory and Applications' in AICTE sponsored Faculty Development Programme on Patent Oriented new Frontiers in Drug Design and Development on June 25, 2019 at Smt. K. B. College of Pharmacy, Kamptee.

Invited as **Resource Person** to deliver a talk on 'Tips on effective research strategies and methodologies' in Guest Talk Series on August 28, 2019 at Rajiv Gandhi Biotechnology Centre, Nagpur.

Invited as **Resource person** to demonstrate and deliver a talk on 'Stereotaxic Neurosurgery in Drug Discovery' in Indian Pharmacological Society sponsored three days training programme on 'STEP – 2.0: Screening Techniques in Experimental Pharmacology' at RC Patel Institute of Pharmaceutical Education and Research, Shirpur (September 26-28, 2019).

Invited as **Resource Person** to deliver a talk on 'Melanocortin-4 receptors modulators: From preclinical to therapeutics' in One day symposium on New hypotheses for breakthrough innovations in drug discovery on November 09, 2019 at Smt. K. B. College of Pharmacy, Kamptee.

Invited as **Resource person** to deliver a talk on 'Immunohistochemistry: Theory and Applications' in two days National Conference on 'Current trends and novel techniques in pharmaceutical research and development' at SNJB's Shriman Sureshdada Jain College of Pharmacy, Chandwad, Nashik on November 18, 2019.

Invited as **Resource person** to deliver a talk on 'Funding to Research Project: Agencies, Application and Implementation' in CEPSTM Faculty Development Center ICT, Mumbai under Industrial Pharmacy-1 at Rajarshi Shahu College of Pharmacy, Buldhana (November 21, 2019).

Invited as **Resource person** to deliver a talk on 'Immunohistochemistry: Theory and Applications' in IBRO-APRC-Associate School of Neuroscience on Two Days workshop on Neuroepigenetics at Department of Biotechnology, Savitribai Phule Pune University, Pune on November 22-23, 2019.

Invited as **Resource person** to deliver a talk on 'Stereotaxic Neurosurgery: Way into Brain' in Lecture series on 'Recent trends in Zoology' at Department of Zoology, RTM Nagpur University, Nagpur on December 21, 2019.

Invited as **Jury member** to evaluate the research projects for RTM Nagpur University team to be participated in the state level research festival Avishkar 2020 at University of Mumbai in Pure Science section at Bhiwapur Mahavidyalaya, Bhiwapur on January 10-11, 2020.

Invited as **Resource person** to deliver a Power talk on 'Drug and Nutrient Interaction' in XVII Annual Scientific Conclave, Nutricon Society of India (Nagpur Chapter) in association with UDPS, RTMNU, Nagpur on February 01, 2020.

Invited as **Resource person** to deliver a talk on 'Good Research Laboratory Practices in Pursuit of Science' in National Faculty Development Programme funded by FDC, HRDC, SPPU, Pune conducted by Sir Dr. M. S. Gosavi College of Pharmaceutical Education and Research, Nashik on May 20, 2020 [Webinar].

Invited as **Resource person** to deliver a talk on 'Rodent Stereotaxic Neurosurgery: Protocol and Application' in SRTM University, Nanded organized Online Ph. D. course work Summer-2020 at Channabasweshwar Pharmacy College, Latur on June 15, 2020 [Webinar].

Invited as **Resource person** to deliver a talk on 'Stereotaxic Neurosurgery: Way into Brain' in AICTE sponsored STTP on Novel Experiment Techniques in Preclinical Research for CNS Disorders at Smt. K. B. College of Pharmacy, Kamptee on July 27, 2020 [Webinar].

Invited as **Resource person** to deliver a talk on 'Immunohistochemistry: Theory and Applications' in AICTE sponsored STTP on Novel Experiment Techniques in Preclinical Research for CNS Disorders at Smt. K. B. College of Pharmacy, Kamptee on July 29, 2020 [Webinar].

Invited as **Resource person** to deliver a talk on 'Immunohistochemistry: Theory and Applications' in Refresher course in Biology (Life Sciences) conducted by UGC-Human Resource Development Centre, RTMNU, Nagpur on August 25, 2020 [Webinar].

Corporate positions

Member, Board of Studies (BOS), Ad-hoc Committee in Molecular Biology and Genetic Engineering, Faculty of Science and Technology, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur (2018-2021).

Member, IQAC Core committee, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

Member as Local Researcher on Institutional committee of Gurunanak College of Pharmacy, Nagpur

Member, **ShodhGanga** Committee for Ph. D. thesis under the guidelines of UGC, New Delhi for Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

Member, **Academic and Research Monitoring Committee**, constituted under Internal Quality Assurance Cell (IQAC), Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur for the compilation of research activities for NAAC evaluation.

Member, Committee for the preparation of proposal of '**Institute of Eminence**' for Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur to be submitted to the UGC, New Delhi.

Co-ordinator for Pharmacy and Medicine category in the 'AVISHKAR-2018', Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

Senate member of the Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur for the duration 2011-2015 in post-graduate teaching constituency.

Working as a **Reviewer** for journals "Pharmacognosy Magazine" (ISSN: 0973-1296), "Pharmacological Reports", "Journal of Psychopharmacology" and "Journal of Pharmacognosy and Phytotherapy".

Member, Internal Animal Ethical Committee, UDPS, RTM Nagpur University, Nagpur.

Member, Internal Animal Ethical Committee, Department of Zoology, RTM Nagpur University, Nagpur.

In-charge, Animal House, UDPS, Nagpur

In-charge, Physical Education and Sports, UDPS, Nagpur

**Participation in
SDP and
scientific
meetings**

- Presented papers in several National and International scientific meetings and conferences.
- Acted as Chairperson in First International Congress of the Society for Ethnopharmacology (ICSE 2014) at Sri Ramachandra University, Chennai (March 07-09, 2014).
- Attended two weeks AICTE sponsored staff development program on 'Up gradation of pharmaceutical education through advances in the ICT-blended teaching/learning process' held at R. C. Patel Institute of Pharmaceutical Education and Research, Shirpur, Dhule (November 13 - 25, 2017).
- Attended two weeks AICTE sponsored staff development program on 'Emerging trends in pharmacological research: Convergence of molecular targets held at Poona College of Pharmacy, Bharati Vidyapeeth Deemed University, Pune (December 19-31, 2016).
- Attended two weeks AICTE sponsored staff development program on 'Recent Advances in Novel Drug Delivery System' held at S. P. College of Pharmacy, Wanadongri, Nagpur (June 16-28, 2014).
- Attended two weeks AICTE sponsored staff development program on 'Current Strategies in Targeted Drug Delivery' held at Institute of Pharmaceutical Education and Research, Wardha (October 14-25, 2013).
- Attended two weeks AICTE sponsored staff development program on 'Recent trends in Pharmacy Education and Practice' held at S. P. College of Pharmacy, Wanadongri, Nagpur (November 19-30, 2012).
- Attended two weeks AICTE sponsored staff development program on 'Recent trends in Drug Discovery, Development and formulations' held at J. L. Chaturvedi College of Pharmacy, Hingna, Nagpur (September 12- 24, 2011).
- Attended two weeks AICTE sponsored staff development program on 'Current trends in Pharmaceutical Biotechnology' held at Poona College of Pharmacy, Bharati Vidyapeeth Deemed University, Pune (January 31-February 12, 2011).
- Attended two weeks AICTE sponsored staff development program on 'Advances in analytical techniques' held at Poona College of Pharmacy, Bharati Vidyapeeth Deemed University, Pune (December 27, 2010-January 08, 2011).
- Attended two weeks Indian Academy of Sciences sponsored Refresher course on 'Contemporary Non-equilibrium thermodynamics and statistical mechanics' held at Department of Chemistry, RTM Nagpur University, Nagpur (October 20-November 2, 2010).
- Attended two weeks AICTE sponsored staff development program on 'Drug discovery and new frontiers' held at Smt. K. B. college of Pharmacy, Kamptee, Nagpur (June 18-31, 2007).
- Attended two weeks AICTE sponsored staff development program on 'Recent Trends in Quality Assurance of Pharmaceuticals' held at Sharad Pawar college of Pharmacy, Wanadongri, Nagpur (Oct 3-14, 2006).

Conferences

- **Co-chairman** of Scientific Committee and **Co-ordinator** of Pharmacology poster

organized

session in 10th APTI National Convention held at Department of Pharmaceutical Sciences, Nagpur University, Nagpur (2005).

- Served as **Co-ordinator** in National Conference on “Pharmaceutical Sciences for Shaping the Future of India” organized by Department of Pharmaceutical Sciences, RTM Nagpur University, Nagpur on October 20, 2012.
- Served as **Co-ordinator** in Pre-Conference workshop organized in 45th Annual Conference of Indian Pharmacological Society and International Conference on Navigating Pharmacology towards Safe and Effective Therapy at Nagpur on January 4-7, 2013.
- Served as **Event organizer** for Debate, Quiz and Essay writing competition on the occasion national Science Day celebration at RTM Nagpur University, Nagpur on February 28, 2013.
- Served as **Convener** in one day National Symposium on “Pre-clinical Evaluation for Drug Discovery: Current and Emerging Opportunities” sponsored by Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur on March 16, 2013.
- Served as an **Organizing Secretary**, in the National Conference on “Conservation of Lokswasthya Parampara” organized by Department of Pharmaceutical Sciences, RTM Nagpur University, Nagpur on July 22, 2017.

Proficiency in Research techniques

Stereotaxy, Immunohistochemistry (IHC), Fluorescence microscopy, Immunofluorescence, Short-term organ culture techniques, Microtomy, Cryosectioning, Histological staining, Adrenalectomy, Retro-orbital plexus blood sampling

Intracerebroventricular cannulation in rat (ICV), Mice restrainers for studying the loss of righting reflex, Implantation of osmopumps for infusion of drugs in rat brain, Orchitectomy, Neuropathic pain, Spinal cord injury, Olfactory Bulbectomy, Intra-amygdala and intra-nucleus accumbens shell administration in rats.

Behavioral Pharmacology methods viz. Animal models for predicting antipsychotic, antidepressant, sedation, analgesic, anxiolytic action, effect of drugs on food intake, drug tolerance, dependence and abstinence symptoms, acute tolerance, drug sensitization and cross-tolerance.

Sound knowledge of computers and Biostatistics (SPSS/ INSTAT 3, SIGMA PLOT)

Professional memberships

- Life Member, Indian Pharmaceutical Association (IPA)
- Life Member, Indian Pharmacological Society (IPS)
- Life Member, The Indian Science Congress Association (ISCA)
- Life Member, Association of Pharmaceutical Teachers of India (APTI)
- Life Member, Indian Society of Comparative Endocrinology (ISCE)
- Member, International Federation of Comparative Endocrine Societies (IFCES)
- Member, International Society for Neurochemistry (ISN)
- Member, Vidarbha Pharmacological Society (VPS)
- Member, Society for Ethnopharmacology (SFE), Indian Chapter

Industrial Training

One and half month industrial training in Nulife Pharmaceuticals, MIDC, Bhosari, Pune.

References

✉ **Prof. Nishikant K. Subhedar** M. Sc., Ph. D., F. N. A. Sc.
Indian Institute of Science Education and Research (IISER),
First Floor, Central Tower, Sai Trinity Building,
Garware Circle, Sutarwadi, Pashan,
PUNE- 411 021, Maharashtra, India
Phone: +91-20-25908055
Email - nksubhedar@hotmail.com

✉ **Prof. Chandrabhan T. Chopde** M. Pharm., Ph. D., F. I. C.
Pharmacology Division, Smt. Kishoritai Bhoyar College of Pharmacy,
Kamptee, NAGPUR- 440 033, Maharashtra, India
Ph. +91-0712-2222943 Fax. +91-0712-2549521
Email - chopdect@hotmail.com

(Dadasaheb M. Kokare)