

Curriculum vitae

Name : Meenakshi Tiwari

Age/Sex: 37 years, Female

Date of birth: 14th June 1979

Date of Joining: 21st May 2013

Designation: Assistant Professor

Department: Pathology/Laboratory medicine



Educational qualification:

INSTITUTION AND LOCATION	DEGREE	YEAR(s)
Department of Biochemistry (SOS), Jiwaji University, India	M.Sc. in Biochemistry	1999-2001
Endocrinology Department, Sanjay Gandhi Post Graduate Institute of Medical Sciences, INDIA.	Ph.D. in Medical Sciences Gold Medal for excellence in research	2001 October -May 2007
Cellular and Structural Biology Department, UTHSCSA, San Antonio, Texas, USA	Postdoctoral Fellow in field of understanding of pathogenesis of diseases/ mechanism of cell death and their modulation	Sep-2007 -May 2013

Awards/Fellowship (Best 3):

Name of the award/Fellowship	Awarding body	Year
Merit Postdoctoral fellowship Award for conducting postdoctoral work at UTHSCSA San Antonio U.S.A	National Institute of Health	2007-2013
Council of Scientific & Industrial Research NET /LS JRF&SRF Research Fellowship and Indian Council of Medical Research (ICMR) Research Fellowship	Council of Scientific & Industrial Research Indian Council of Medical Research (ICMR)	2001-2006
“SS Agarwal Gold Medal for excellence in research (2009)	Sanjay Gandhi Postgraduate Institute of Medical Sciences- Lucknow	2008

Publications (Best 10): Attach list

1. **Tiwari M**, Kumar A, Sinha RA, Shrivastava A, Balapure AK, Sharma R, Bajpai VK, Mitra K, Babu S, Godbole MM. Mechanism of 4-HPR-induced apoptosis in glioma cells: evidences suggesting role of mitochondrial-mediated pathway and endoplasmic reticulum stress. **Carcinogenesis**. 2006;27(10):2047-58. (IF: 5.4)
2. **Tiwari M**, Bajpai VK, Sahasrabudhe AA, Kumar A, Sinha RA, Behari S, Godbole MM. Inhibition of N-(4-hydroxyphenyl)retinamide-induced autophagy at a lower dose enhances cell death in malignant glioma cells. **Carcinogenesis**. 2008; 29(3):600-9. (IF: 5.4)
3. **Tiwari M**, Lopez-Cruzan M, Morgan WW, Herman B. Loss of caspase-2 dependent apoptosis induces autophagy following mitochondria oxidative stress in primary cultures of young-adult cortical neurons. **J Biol Chem**. 2011 Mar 11; 286(10):8493-506. (IF: 4.7)

4. **Tiwari M**, Herman B, Morgan WW. A knockout of the caspase 2 gene produces increased resistance of the nigrostriatal dopaminergic pathway to MPTP-induced toxicity. **Exp Neurol**. 2011 Jun; 229(2):421-8. (IF: 4.64)
5. **Tiwari M**, Sharma LK, Vanegas D, Callaway DA, Bai Y, Lechleiter JD, Herman B. A nonapoptotic role for CASP2/caspase 2: Modulation of autophagy. **Autophagy**. 2014 Jun 1;10(6):1054-70. (IF 12.3)
6. **Meenakshi Tiwari, Lokendra K. Sharma, Madan M. Godbole**. Enhancement of Cell Death in High-Grade Glioma Cells: Role of N-(4-Hydroxyphenyl) Retinamide-Induced Autophagy. *Autophagy: Cancer, Other Pathologies, Inflammation, Immunity, Infection, and Aging. Volume 1: Molecular Mechanisms. Chapter 16. 235-250. (Elsevier Publications)*
7. Kumar A, Sinha RA, **Tiwari M**, Singh R, Koji T, Manhas N, Rastogi L, Pal L, Shrivastava A, Sahu RP, Godbole MM. Hyperthyroidism induces apoptosis in rat liver through activation of death receptor-mediated pathways. **J Hepatol**. 2007;46(5):888-98 (IF. 11.5)
8. Shrivastava A, **Tiwari M**, Sinha RA, Kumar A, Balapure AK, Bajpai VK, Sharma R, Mitra K, Tandon A, Godbole MM. Molecular iodine induces caspase-independent apoptosis in human breast carcinoma cells involving the mitochondria-mediated pathway. **J Biol Chem**. 2006 14;281(28):19762-71(IF: 4.7)
9. Kumar A, Sinha RA, **Tiwari M**, Pal L, Shrivastava A, Singh R, Kumar K, Kumar, Gupta S, Godbole MM. Increased pro-nerve growth factor and p75 neurotrophin receptor levels in developing hypothyroid rat cerebral cortex are associated with enhanced apoptosis. **Endocrinology**. 2006; 147(10):4893-903
10. Saxena AK, Jain M, **Tiwari M**, RK Gupta. Identification of nucleotide changes in Amniotic fluid derived stem cells collected from mothers having cases of Neural tube defect. **International Journal of Genetics and Genomics**. Vol. 4, No. 3, 2016, pp. 16-19. doi: 10.11648/j.ijgg.20160403.11
11. **Tiwari M**, Sharma LK, Saxena AK, Godbole MM. Interaction Between Mitochondria and Caspases: Apoptotic and Non-Apoptotic Roles. **Cell Biology**. Special Issue: Mitochondria: Implications in Human Health and Diseases. Vol. 3, No. 2-1, 2015, pp. 22-30. doi: 10.11648/j.cb.s.2015030201.14

Research: (At AIIMS Patna)

Ongoing:

Grants 1), DBT, “To Study the Role of Autophagy in Glioma Stem Cells as a Potential Target for Chemotherapeutic Agents” –Sanctioned , Role : PI

2) To Study the role of WTI/WTII Genetic and Epigenetic factors Associated etiopathology of Wilms Tumor in Eastern Part of Country with special reference to Bihar ” (Sanctioned, Role Co-PI)

Areas of interest: Currently, my research interest includes 1) genetics of cancer, stem cells and neurodegenerative disorders and 2) identification of role of apoptosis and autophagy in chemotherapeutics, neurodegeneration and stem cells.

We as a department are developing various specialized diagnostic tests such as genetic testing, HLA typing, Flowcytometry based diagnostics e.t.c.