

Curriculum Vitae



Name: Dr (Mrs) Manorama Patri

Designation: Lecturer in Zoology
Subject: Zoology

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Professional Experience:

2009- 2011:

WOMEN SCIENTISTS (WOS-'A'), under the research scheme entitled "Learning and memory deficits with molecular dysfunction following environmental exposure to benzo (a) pyrene", sponsored by DST, Govt. of India, working in Department of Neuroscience, School of Life Sciences, Jawaharlal Nehru University, New Delhi-100067, INDIA.

2008-09:

Research Associate (RA), DBT, Govt of India, **Central University Hyderabad**

2006-08:

Post-Doc Research Fellow, Human Stress Signal Research Centre, National Institute of Advanced Industrial Science and Technology (AIST), Kansai Center, 1-8-31, Midorigaoka, Ikeda, Osaka JAPAN

1995-06:

Lecturer in Zoology, Bhadrak Women's College, Bhadrak-756100, Orissa, INDIA

Education:

1985:	B.Sc.	1st	Zoology (Hons),	Bhadrak College, Bhadrak-756001, Utkal University
1987:	M.Sc	1st	Zoology,	Dept. of Zoology, Ravenshaw University, Cuttack-753003
1990:	M.Phil	B ⁺	Env. Biology	Dept. of Ecology, School of life science, Sambalpur University, Jyoti Bihar, BURLA
1995:	M Ed.	1st	G.Sc.	N.D. Women's College of Education, Bhubaneswar, Utkal University
2000:	PhD	-		Dept. of Environmental Biology, School of Life Sciences, Sambalpur University, Jyoti Bihar, BURLA, Orissa, INDIA

Area (s) of specialization: Neurobiology-

My research interests focus on understanding the neurobiology of learning and memory: neural circuitry, neurotransmitters and receptors that regulate encoding, storage, and retrieval of memories. I use a Wistar rat model to study the effects of environmental chemicals on the nervous system, particularly chemicals like polycyclic aromatic hydrocarbons (PAHs), which act directly on the synapse.

My primary research interest is to know the synaptic mechanisms underlying glutamate-mediated brain functions at the molecular level and the cellular mechanism of action of environmental chemicals on glutamate receptors (e.g. NMDA receptors), which are important for neural plasticity and neural development as well as neurotoxicity

Publications:

1. Books:

Patri, M., **Paribesh Bigyan (Environmental studies)**, +3 Arts, Science & commerce students Kalyani Publisher, Ludhiana, New Delh, ISBN 81-272-3096-0, First edition-2006

2. Research Papers in Peer Reviewed Journals:

M. Patri, A. Padmini and P. Prakash Babu: Polycyclic aromatic hydrocarbons exposure induced oxidative stress and neurological disorders: A brief perspective; ANNALS OF NEUROSCIENCES VOLUME 16 NUMBER 1 JANUARY, 2009.

3. Research Papers in Non-peer Reviewed Journals:

Patri, M., Naik, B.N.; Biochemical and hematological effects of flyash exposure on white rats; J. Appl. Zool. Res. 4(1) 95-96, 1993

Patri, M., Mishra, P.C.; Growth of water hyacinth and its efficacy in the removal of pollution load from industrial effluents; Journal of Ecotoxicology and Environmental Monitoring, 1(3), 218-224, 1991.

Patri, M; Naik, B.N.; Enzymatic changes in rat liver and brain during exposure to sulphur dioxide gaseous pollutant; Environment and Ecology; 8 (4), 1281-1283, 1990.

Chapters in Edited Books:

Patri, M., Naik, B.N., Effects of air pollution on Man and Property. Encyclopedia of Environmental Pollution and Control, ENVIRO MEDIA, KARADA - 415110, Vol. 1, 264-282, 1995

Samal U.N., Patri, M., Naik, B.N.; Impact of flyash on Mango trees grown in Southwestern direction of TTPS at Talcher; Environment and Pollution, 106-108, 1992.

Patri, M., Naik, B.N.; Air pollution impact assessment of Talcher Thermal Power plant-1; Environmental impact of industrial and mining activities.. ASHISH PUBLISHING HOUSE, 8/81, Panjabi Bagh, New Delhi-110026, 15, 134-140, 1990.

Patri, M.; Pollution Hazards in and around Talcher, "The Ekamra times" July-Aug, 1991

4. Reviews in Peer Reviewed Journals: (Five recent reviews)

Conference Presentations: International

Presented paper in Award session on "Noradrenaline prevents B(a)P-induced DNA damage by efficiently reducing intracellular calcium level in nerve cells" in the International Symposium on "Cellular and Molecular Basis of Brain Plasticity & Repair Mechanism" organized by Defence Institute of High Altitude Research (DRDO) & SfN Bangalore Chapter at Leh Ladakh, India, September 3-5, 2010

Attended the International Symposium on "Regenerative Neuroscience and Annual meeting of Society for Neurochemistry" organized by National Institute of Mental Health and Neuro sciences, Bangalore, 17-18th Jan, 2008.

Poster Presented on "Assessment of Air Quality and Air Pollutants Impacts in TTPS, Talcher, INDIA", in 3rd International Workshop on Bio-Chips and Environmental monitoring, **AIST, Kansai Center, Japan**. 17th-18th August, 2006.

Presented Paper on "Environmental effects of particulate matter from a Thermal power Plant in India: a case study" WESTLAKE PUBLISHING LTD. VIth International Congress of Ecology, School of Biological Science, Williamson's Building, University of Manchester, UK, 20th Aug, 1994.

National (Maximum-10)

Attended the 19th National Congress of Parasitology and International Symposium on Parasitic Diseases of animals and Man, Sponsored by Indian Society for Parasitology, Organised by Dept. of Zoology, Andhra University, Visakhapatnam, 26-28th Oct, 2007
Presented Paper on "Role of Women in protecting the Environment", in UGC sponsored National Seminar on the "Women's participation in Protecting Environment" organized by Dept. of Zoology, Bhadrak Women's College, Bhadrak, 20-21 March 2005.

Presented Paper on "Impacts of Hydroelectric Dam Project: Agro-climatic and Socio-economic conditions of Orissa" in Proceedings of AICTE, Workshop on "Environmental Crisis: A challenge to present day Modern world" organized by BIET, Bhadrak, 2-4 May 2004.

Presented Paper on "Impacts of Flyash on Mango trees grown in the area of Talcher Thermal Power Plant" in the Seminar on "Environmental Pollution" sponsored by UGC, organized by Dept. of Zoology, Agarpada College, Agarpada, 13-14 April, 2002.

Conferences/ Workshops/ Training Programs Organized: (Five major & recent ones)

**Research Projects, Evaluation Research, Consultancies: WOMEN SCIENTISTS
(WOS-'A'), DST, Govt. of
India - JNU, New Delhi
DST No: SR/WOS-A/L22/2009**

Advisory & Editorial Boards:

Honours, Fellowships: Awarded Scholarship by the Government of China for the year -2001, CHINA.

Membership in Professional Bodies: Life Member SNCI, INDIA, Member SfN,
Bangalore, India