

Dr. Manoranjan Adak

M.Sc (Biochem.), Ph.D., F.I.C.

Professor of Biochemistry, National Medical College & Teaching Hospital, Birgunj, Tribhuvan University, Nepal

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Address : 11/1/3, Bhagaban Chatterjee Lane, Howrah-711101
West Bengal, India.

Phone: 091-33-26675370

Place of Birth : Midnapur, West Bengal, India

Date of Birth : 20th January 1962

Gender : Male

Citizenship : Indian

Marital status : Married

Children : One daughter

EDUCATIONAL QUALIFICATION:

- Madhyamik examination passed from West Bengal Board of Secondary Education in the year of 1978
- Higher Secondary examination passed from West Bengal Council of Higher Secondary Education in the year of 1980
- B.Sc. Chemistry (Hons.) examination passed from Calcutta University in the year of 1983
- M.Sc. Biochemistry examination passed from Calcutta University in the year of 1985
- Ph.D in Science from Jadavpur University in the year of 1996
- F.I.C from Institution of Chemist(India) in the year of 1998

RESEARCH BACKGROUND:

Ph.D thesis on *“Investigation on possible anti- hypercholesterolemic agents”*, worked under Late Prof. Samir Chandra Lahiri in the Department of Pharmaceutical Technology, Jadavpur University, Kolkata-7000032, India.

EMPLOYMENT HISTORY:

- 15th January 2011 to till date - **Professor of Biochemistry**, National Medical College & Teaching Hospital, Birgunj, Tribhuvan University, Nepal
- Oct. 2009 to 14 January 2011 - **Associate Professor** of Biochemistry National Medical College & Teaching Hospital, Birgunj, Tribhuvan University, Nepal

- Oct. 2007 to Sept 2009 - **Associate Professor** , Faculty of Medicine, Department of Biochemistry ,The Great Socialist People's Libyan Arab Jamahiriya, 7th April University , Zawia, Libya
- July 2007 to Sept. 2007 - **Associate Professor** , Faculty of Medicine, Department of Biochemistry, National Medical College & Teaching Hospital, Birgunj, Tribhuvan University, Nepal
- July 2004 to July 2007 - **Assistant Professor**, Faculty of Medicine, Department of Biochemistry, National Medical College & Teaching Hospital, Birgunj, Tribhuvan University, Nepal
- Oct 1994 – June 2004 – **Manager-Quality control and Research**, Sundar Homeo Sadan, Kolkata
- Feb 1990 - Sept. 1994 - Senior Research Fellow, Department of Pharmaceutical Technology, Jadavpur University, Kolkata
- Jan. 1987 - Jan. 1990 - Junior Research fellow(CSIR), Department of Pharmaceutical Technology, Jadavpur university, Kolkata

FIELD OF RESEARCH WORKS:

1. Basic synthetic works

- a) Synthesis of indan -1- carboxylic acids
- b) Synthesis of indan-1- acetic acids
- c) Synthesis of alpha alkyl substituted indan-1-acetic acids
- d) Synthesis of indan-1-propionic acids
- e) Synthesis of indanyl tetrazoles

2. Basic microbiological works

- a) Routine microbiological works
- b) Studies of mode of action of different antifungal, antibacterial and anti-inflammatory agents

3. Methods involving purification of proteins

Gel filtration, Ion exchange, Affinity chromatography

4. Work on natural products

Extraction, purification and pharmacological studies on Anti-inflammatory, hypoglycemic activities of medicinal plants.

HONORS/AWARDS:

Awarded Junior Research Fellow, CSIR, Govt. of India, 1987-1990

Awarded Senior Research Fellow, CSIR, and Govt. of India, 1990-1994

Awarded FIC, Fellow of Institute of Chemist (India), 1998

SCIENTIFIC MEMBERSHIP:

Society of Biological Chemist (India)
Indian Science Congress Association (India)

EDITORIAL MEMBER

Journal Title: Biochemistry & Pharmacology –Open access (USA)

REVIEWER

Pub Med Journal – Pakistan Journal of Pharmaceutical Sciences

PUBLICATIONS:

Abstracts:

1. **M. Adak** and S. C. Lahiri (1995) Synthesis of 4'5'6'-trimethoxy indan-1-acetic acids and its alpha substituted analogs as hypolipidemic agents. Proceedings of 82nd Science Congress, P-10.
2. **M. Adak** and S. C. Lahiri (1994) Antihypercholesterolemic effects of indan acetic acids. Proceedings of 81st Indian Science congress, P-12.
3. **M. Adak** and S. C. Lahiri (1993) Studies on alpha alkyl substituted indan-1-acetic acids as non-steroidal hypercholesterolemic agent. Proceedings of 80th Indian Science Congress, P-113.
4. **M. Adak** and S. C. Lahiri (1992) Cholesterol lowering activity of simple and substituted indan acids. Proceedings of 79th Indian Science Congress, P-130.
5. **M. Adak**, B. Chatterjee and S. C. Lahiri (1989) Investigation on some possible newer non-steroidal Antihypercholesterolemic agent. 58th Annual Meeting, Society of Biological Chemist (India). Dept. of Biochemistry, IVRI, Izatnagar, P-15.
6. **M. Adak** (2009).Garlic (*Alliums sativum L*) is beneficial for treatment of cancer. The IVth international cancer conference, Sabrata, Libya, p-25.
7. **M Adak (2012)** The role of Calcium in cell signaling. 1st International Meet on Advance studies on cell signaling network(CeSin-2012),Sept.11-13 ,2012, p-29.

PAPERS

1. **MANORANJAN ADAK** (2012) Clinically Relevant Biomarkers for Myocardial Infarction. *Biochemistry & Pharmacology: Open Access* , 1:5.
2. K Adhikari, **M R Adak** (2011) Behavioural risk factors of non-communicable diseases among adolescents in Chitwan District of Nepal. *Journal of Institute of Medicine* (in press).
3. **Adak M**, Thakur AN, Adhikari K (2012) Study of biochemical markers in alcoholic liver disease: Hospital-based case control study. *Research Journal Pharmaceutical, Biological and Chemical Sciences*, **3(3), 987-995**.
4. Ahmad Parwez, Hussain Arshad, Najmi Abul Kalam, **Adak Manoranjan**, Akhter Hasin, Manocha Anshu (2011) : Effect of Ethanolic Extract of Black Tea on

- Haloperidol-Induced Catalepsy in Mice. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 2(4), 1005-1013.
5. **M. Adak** (2010) Studies on anti-hypercholesterolemic activity indanyl tetrazole. *Journal of Institute of Medicine*, 32(3),24-29.
 6. **M. Adak**, M A Gabar (2011) Green tea as a functional food for better health: a brief review. *Research Journal of Pharmaceutical, Biological and Chemical Sciences* 2(2), 645-664.
 7. **M. Adak** (2010) A review: Garlic [*Allium sativum*] and its beneficial effect on cardiovascular disease. *International Journal of Biomedical and Pharmaceutical Sciences*, 4(1), 1-20.
 8. **M. Adak** and J N Shivapuri (2010) Enzymatic and Non-enzymatic Liver Function Test: A Review. *Research Journal of Pharmaceutical, Biological and Chemical Sciences* 1(4), 593-605.
 9. **M. Adak** (2010) Serum lipid and lipoprotein profile abnormality in predicting the risk of coronary artery disease in non-diabetic patients attending NMCTH, Birgunj. *Nepal Medical College Journal*,12(3):158-64
 10. **M. Adak** (2009) Synthesis and pharmacological screening of indan-1-propionic acid as anti-hypercholesterolemic agents. *Asian Journal of Chemistry*, 22(3), 2099-2105.
 11. **M. Adak** (2009) Beneficial effect of Garlic (*Allium sativum*) on cancer. *Jamahiriya Medical Journal*, 9(3), 161-170.
 12. **M. Adak** and JK Gupta (2009) Acute and Subacute Toxicity study with Hypolipidemic agent of α - Alkyl Substituted Indan-1- Acetic Acids in mice. *Research journal of medicine and medical sciences*, 4 (2), 345-350.
 13. **M. Adak** and S Nazri (2008) Study on risk factors assessment for Type-II Diabetes Mellitus among patients attending National Medical College & Teaching Hospital, Birjung, Nepal. *Journal of Institute of Medicine*, 30 (3), 23-30.
 14. **M. Adak** and S.Nazri (2007) Age related study of serum lipid peroxidation and antioxidant status. *Journal of Institute of Medicine*, 29(1), 37-40.
 15. **M. Adak** and J.K.Gupta (2007) Studies on trimethoxy indan-1-yl acetic acids as antihypercholesterolemic agents. *Asian Journal of Chemistry*, 37(4), 2559-2564.
 16. **M. Adak** and J.K.Gupta (2006) Synthesis and Antihypercholesterolemic activity of α -alkyl substituted indan- 1-acetic acids. *Asian Journal of Chemistry*, 18(2), 1394-1400.
 16. **M. Adak** and J.K.Gupta (2006) Hypolipidemic activity of indan-1-acetic acids. *Nepal Medical College Journal*, 8(1), 22-26.
 17. **M. Adak** and S.Nazri (2006) Prevalence of anemia among young girls & pregnant women of Birjung. Nepal. *Journal of Institute of Medicine*, 28(2), 30-34.
 18. **M. Adak** and J.K.Gupta (2006) Evaluation of anti-inflammatory activity of *Calotropis gigantea* (AKANDA) in various biological systems. *Nepal Medical college Journal*, 8(3), 156-161.
 19. B.Chowdhury. **M.Adak** and S.K.Bose (2003) Flubiprofen, a unique nonsteroidal anti-inflammatory drug with antimicrobial activity against *Trichophyton*,

Microsporium and Epidermophyton species. *Letter in Applied Microbiology (UK)*, **37**, 162-168.

20. **M. Adak** and S.C.Lahiri (1995) Studied on hypercholesterolemic effect of some simple and substituted indan-1-acetic acids. *Indian Drugs*, **32(11)**, 561-563.

References:

Professor Dr. J. N. Shivapuri, MBBS, MD (Biochemistry)
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