

Curriculum-Vitae



DR. SATENDRA KUMAR NIRALA

M.Phil, Ph.D. (Zoology)

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Date of Birth: 05-10-1975

Title of the Ph.D. Thesis:

"COMBINED EFFECT OF CERTAIN ANTIOXIDANTS ALONG WITH CHELATING AGENTS ON BERYLLIUM INDUCED TOXICITY IN RATS"

Research project in hand

Major research project entitled "Tunneling nanotubes: Exploration of possible target for anti-cancer therapies", sanctioned from Department of Science and Technology (DST) (**Ref # SERC/LS-0424/2010 August 09, 2011**).

Areas of research interest:

Intercellular communication:

- Evaluation of certain natural products for anti-cancerous activity by hampering intercellular communication through tunneling nano tubes (TNTs).

Metal Toxicology:

- Acute, Subchronic and Chronic Metal Poisoning with special reference to Beryllium, Lead, Mercury, Cadmium and Aluminum.
- Cellular and molecular mechanisms of detoxification by chelation therapy with and without antioxidants/adjuvants/trace elements supplementation following metal intoxication; Quantitative estimation of metals concentration and various biochemical parameters in tissues and organs.

Hepatoprotection:

- Biological evaluation of active substances from herbal and natural resources for the treatment of liver diseases against model hepatotoxicants (CCl₄, Acetaminophen & Alcohol).
- Protective effects of herbal and natural products against Alcohol and high fat diet induced liver abnormalities.

Silicosis:

- Cellular mechanisms for detoxification and therapeutic efficacy of natural products in experimentally induced silicosis.

Fellowships:

International:

- ❖ Availed **Chinese Government Scholarship-2005** (for Advanced Research Training) from 01-09-2005 to 30-03-2008 under **Indo-China Cultural Exchange Program** through Government of India, Ministry of Human Resource & Development (Department of Secondary and Higher Education).

National:

- ❖ Availed **Research Associate** position from 05-05-2008 to 04-05-2011, from **Indian Council of Medical Research**, New Delhi, India (No. 45/03/2004/PHA/BMS) for the research project entitled "**Effects of some natural products against toxicological consequences of beryllium exposure: in vitro and in vivo approach**".
- ❖ Availed **Project Fellowship** from 29-08-2001 to 28-08-2004 from **University Grants Commission**, New Delhi-India, under a Major Research Project (No. F-3/70/2001, SR-ii) entitled "**Role of Adjuvants in Chelation Therapy against Beryllium Toxicity**".

Scientific Recognitions/ Awards / Honors:

International:

- Conferred **Bursary-2009** for research paper entitled “**Intercellular communication through tunneling nanotubes: a possible target for anti-cancer therapies**” from **European Association for Studies on Liver (EASL)** to attend its 44th meeting held in Copenhagen, Denmark during 22nd - 26th April, 2009.
- Conferred **Student Recognition Award-2008** from **International Society of Zoological Sciences (PR China) & XXth International Congress of Zoology** held in Paris, France during 26th - 29th August, 2008.
- Conferred **International Congress of Toxicology Junior Fellowship Award-2007** from **International Union of Toxicology, USA (IUTOX)** to attend the ICT-XI conference held at Montreal, Canada during 15th -19th July, 2007.

National:

- Conferred **Outstanding Young Person (OYP) Award-2006** for personal achievements in the Science and Technological Development from JCI-Gwalior (M.P.) India.
- Conferred **Junior Scientist of the Year-2005 Award** from **National Environmental Science Academy** (NESA), New Delhi – India.
- Conferred Best Research Presentation Medal (**BRPM Gold Medal-2003**) for research paper entitled “Amelioration of beryllium induced biochemical alterations by combined treatment of propolis and chelator” in 23rd annual session of the **Academy of Environmental Biology**, 9th - 11th October 2003 at Department of Zoology, Shivaji University, Kolhapur (Maharashtra) India.
- Conferred "**Third Prize**" for oral presentation of research paper entitled “**Effectiveness of Tiron over DTPA along with α - tocopherol against beryllium induced toxicity**” in Jiwaji University Research Seminar, 25th -26th March 2003 held at Jiwaji University, Gwalior (M.P.) India.

Foreign visits for scientific purposes:

- ❖ Visited Denmark (**Copenhagen**) during 22nd – 27th April, 2009.
- ❖ Visited France (**Paris**) during 25th - 30th August, 2008.
- ❖ Visited P.R. China (**Lanzhou**) during 01-09-2005 to 30-03-2008.
- ❖ Visited Kingdom of Thailand (**Bangkok**) during 5th -13th November, 2004.

Publications: (Cumulative Impact Factor: 32.953/2010)

Book chapters contributed: 02

Research papers accepted/published in SCI journals: 27

Research papers presented in conferences

International: 05

National: 18

Scientific contribution as reviewer: Active reviewer of the manuscripts obtained from:

- ❖ **Evidence based Complementary and Alternative Medicine**, Oxford University Press, **UK**.
- ❖ **Iranian Journal of Pharmacology and Therapeutics**, **Iran**.
- ❖ **Journal of Veterinary Sciences**, Seoul, Korea.
- ❖ **African Journal of Microbiology Research**, South Africa.

Patent:

- ❖ Indian patent entitled “**Propolis extract: a potent antioxidant and hepatoprotective agent and the process for preparation thereof**”.
Name of inventors: Sangeeta Shukla, Monika Bhadauria, **Satendra Kumar Nirala**, Sadhana Shrivastava and Shamshad Ahemad.
Name of Applicant: 1) CCRUM, NEW DELHI & 2) JIWAJI UNIVERSITY, GWALIOR
Application No: 1827/DEL/2009 A
Date of filing: 03/09/2009
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