**Suman Sanwal**

855 Sanctuary Dr

APT#205B

Lake Villa, Illinois

**Email-id:** suman.sanwal@gmail.com;

**Contact No.** 612-751-0329

**EDUCATION**

2011. PhD in Zoology (specialization in fisheries). Department of Zoology, DSB Campus, Kumaun University, Nainital (INDIA).

Dissertation title:Culture and Growth Studies on Chocolate Mahseer, *Neolissochilus hexagonolepis* (McClelland) in Pond Environment of Kumaun, Uttarakhand

2006. M.Sc. (Zoology with specialization in Fish & Fisheries). Department of Zoology, DSB Campus, Kumaun University, Nainital (INDIA).

2004. B.Sc. Biology (Zoology, Forestry, Information Technology). DSB Campus, Kumaun University, Nainital (INDIA).

**PROFFESIONAL EXPERIENCE**

2011-2012. worked as a Technical Assistant in ICAR (Indian Council of Agricultural Research, Delhi, India) funded project entitled “Nutrient Profiling and Evaluation of Fish as a Dietary Component”.

2007-2011. PhD scholar in Directorate of Coldwater Fisheries Research (ICAR), Bhimtal, Nainital (INDIA).

**RESEARCH AREAS**

* Culture of *Neolissochilus hexagonolepis* (McClelland).
* Limnological studies of water bodies including physico-chemical & biological analysis.
* Histological Studies of cold water fishes (Chocolate mahseer, Golden Mahseer, Trout spp. Carp spp.).
* Biology of cold water fishes (Chocolate mahseer, Golden Mahseer, Trout spp. Carp spp.).
* Analysis of proximate composition, Amino acid, Total fat & Minerals from fish muscles.
* Some knowledge of software (i.e. SPSS, SAS and MS Office etc.).
* Knowledge of basic instruments used in biology laboratory (i.e. Microscope, autoclave, Microtome, pH meter probe etc.).

**AWARD**

* Motilal Dalela Best Research Paper Gold Medal, 2011 during 30th Annual Session of the AEB.

**PUBLICATIONS**

1. **PAPERS (Published, communicated and in progress of completion)**

* Suman Sanwal, Debajit Sarma and N. Okendro Singh 2010.Effect of stage and seasonal differences on length-weight relationship and condition factor of chocolate mahseer (*Neolissochilus hexagonolepis*), Journal of Inland Fishery Society of India 42(2): 52-56.
* Debajit Sarma**,** Suman Sanwal, Ghanshyam Nath Jha and P. C. Mahanta 2011**.** Species Specificity Study of Threatened Chocolate Mahseer (*Neolissochilus hexagonolepis*) and Malaysian Mahseer (*Neolissochilus soroides*). Journal of Inland Fishery Society of India 43(2): 27-32.
* Debajit Sarma, Suman Sanwal, and P. C. Mahanta 2013.Growth Performance of Chocolate Mahseer (*Neolissochilus hexagonolepis)* in Pond Environment of Kumaun Himalaya during Early Developmental Stages. Journal of Ecophysiology and Occupational Health 13: 67-72.
* Debajit Sarma, Suman Sanwal and Partha Das 2015. Food and feeding of Chocolate Mahseer (Neolissochilus hexagonolepis) from fry to Juvenile stages in captivity. Journal of Inland Fishery Society of India 47(1): 10-17.
* Debajit Sarma, Puspita Das, Partha Das, Suman Sanwal and M.S. Akhtar 2015. Nutritional composition of golden mahseer in cold water Himalayan region of India. SKUAST Journal of Research 17(1): 23-28.
* Ontogenic development of alimentary tract of chocolate mahseer, Neolissochilus hexagonolepis (McClelland) during various developmental stages (in progress of completion).
* Study on Population of Plankton and water quality in Cold Water Lake of India. (In progress of completion).

1. **BOOK CHAPTER**

* Debajit Sarma, Suman Sanwal, R. S. Haldar, Partha Das and P. C. Mahanta 2010. Development of culture and breeding strategies for mahseer (*Tor putitora* and *Neolissochilus hexagonolepis*), Coldwater Fisheries Management, pp 61-72.

1. **OTHERS**

* Secretarial Assistance in Coldwater Fisheries Management book 2010. Directorate of Coldwater Fisheries Research (ICAR) Bhimtal-263 136.

**SEMINARS AND TRAINING PROGRAMES**

1. **SEMINARS PRESENTED**

* Oral presentation on “Food and Feeding habit of Chocolate Mahseer *Neolissochilus hexagonolepis* (McClelland) in pond environment of Kumaun Uttarakhand.” in National Seminar on“Response of Eco-Biological Components to the Phenomenon of Global Warming (Nsreg – 2009) at the Department of Zoology, DSB Campus, Kumaun University, Nainital. September 26-27, 2009.
* Oral presentation on“Effect of stage and seasonal differences on length-weight relationship and condition factor of chocolate mahseer (*Neolissochilus hexagonolepis*): A new candidate species for hill Aquaculutre.”in National Consultation on “Biodiversity of High Altitude Aquatic Resources, Conservation & Utilization” at the Directorate of Coldwater Fisheries Research (ICAR), Bhimtal, Nainital. September 29-30, 2010.
* Oral presentation on“Nursery Rearing of Chocolate Mahseer in Kumaun Himalayas – A New Candidate Species.”in International Conference on “Aquaculture – the future is here” at Kochi, India. January 17-20, 2011.

1. **TRAINING PROGRAMMES & SEMINARS ATTENDED**

* Training programme on “Culture & Breeding of Important Cold Water Fish Species” held at NATIONAL RESEARCH CENTRE ON COLDWATER FISHERIES (ICAR), BHIMTAL from July 14- 21, 2008.
* Training programme on **“**Application of Molecular Techniques in Cold Water Fishes” held at DIRECTORATE OF COLDWATER FISHERIES RESEARCH (ICAR), BHIMTAL from July 14- 23, 2009.
* Training programmeon“Three Pronged Fish Farming Technologies for Hill Regions”held at Rajiv Gandhi University, Itanagar, Arunachal Pradesh from 19-23 October, 2010.
* Training programmeon“Breeding, Incubation and Rearing of Rainbow Trout”held at Directorate of Coldwater Fisheries Research (ICAR), Bhimtal from 27 December 2010 to 3 January 2011.
* National Seminar on“Response of Eco-Biological Components to the Phenomenon of Global Warming(NSREG – 2009) by the Department of Zoology, DSB Campus, Kumaun University, Nainital in collaboration with Indian Academy of Environmental Sciences, Haridwar during September 26-27, 2009.
* National Consultation on“Biodiversity of High Altitude Aquatic Resources, Conservation & Utilization”at the Directorate of Coldwater Fisheries Research (ICAR), Bhimtal, Nainital. 29-30, September 2010.
* International Conference on“Aquaculture – The Future is here”atKOCHI, INDIA. January 17-20, 2011.

**EXAMINATION**

* TOEFL qualified (Sep-2014) with 82 marks overall.

**ONLINE (COURSERA) & OFFLINE COURSES**

* One year Advanced Diploma in Computer Application under the Human Resource Development Scheme from HIIT, Nainital, India (2001-2002).
* Attended lessons from Teaching House New York in English Language at upper-intermediate level - June 16th to July 11th 2014-.
* Certificate of Participation from International Education Center in English as a Second Language – April 2014 – July 2014.
* Preparation for introductory biology- DNA to Organisms, 2014 (Coursera).
* Introduction to genetics and evolution (non-credit course offered by Duke University), 2015 (Coursera).
* Understanding the brain: the neurobiology of everyday life (non-credit course offered by University of Chicago), 2015 (Coursera).

**VOLUNTEER EXPERIENCE**

* Assistant teacher in St John’s Public School, Nainital, India (July 2006- November 2007).