



PhD Scholar
Department of Zoology
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Vipin Kumar Verma

Personal Male, single, date of birth- 5th Dec.1986.

Perspective

A challenging and growth oriented research position in the field of Molecular Biology/ Molecular Immunology/ Stem Cell research/ Toxicology/ Oncology /identification of drug targets/ Drug discovery in a globally renowned, resourceful and innovative university/ Institute for my postdoctoral research.

Academic Qualifications

Course	Year	University/Board	Percentage
Ph.D. Zoology	2012-2016	University of Delhi	--
M.Sc. Biotechnology	2007-2009	Rajasthan University, Jaipur	72.5%
B.Sc. (Hons.) Zoology	2004-2007	Delhi University, Delhi	57.1%
12TH	2003-2004	C.B.S.E., Delhi	68%
10TH	2001-2002	H.B.S.E., Bhiwani	68%

Research Experiences

- Worked as a Research fellow in a Project titled “**Development of sensitive immunoassay to analyze the health status in fish**” funded by **University grant Commission, India** at **Sri Venkateswara College, University of Delhi, New Delhi**.
Duration: One year 9 months.
- **DBT-BCIL** training under project entitled “**SNPs related to relapse in breast cancer after tamoxifen treatment**” at **OncQuest Pvt. Ltd.** (Formely: Dabur OncQuest Pvt.

Ltd.), New Delhi **Duration : Six Month**

- Dissertation project titled “**Thioacetamide induced hepatic fibrosis and its attenuation by picroliv and andrographolide in rat model**” under the supervision of Dr. Shashi Khandelwal, Deputy Director and Head Immuno-toxicology division, **Indian Institute of Toxicology Research** (Formerly: Industrial Toxicology Research Centre), Lucknow, U.P. as partial fulfillment for the degree of Masters of Biotechnology at University of Rajasthan, Jaipur
Duration : Four Month
- Industrial training on “**Bioinformatics, essential oil extraction and plant tissue culture**” from **HH Biotech. Pvt. Ltd., Biotechnology park**, Lucknow, U.P.
Duration : One Month

Technical Skills

- **Molecular biology techniques** {DNA and RNA isolation, Plasmid Isolation, DNA isolation from paraffin embedded tissue, Electrophoresis (AGE and PAGE), PCR and RT-PCR, Allele specific PCR, RFLP, RAPD, Southern and Western blotting, FISH, DNA sequencing, flow Cytometry, protein estimation and purification, etc.}
- **Basic immunological techniques** {PBMC isolation, Immunodiffusion, Immunoelectrophoresis, Immunofluorescence, Flowcytometry, ELISA, Immunohistochemistry}
- **Basic techniques** {Animal handling (Rats and Fish), Cells isolation, Animal Cell culture, Enzymatic assays, Microtomy, Differential staining of cells and tissue, Plant tissue culture, essential oil extraction}
- **Microbiological techniques** { Microbial identification and culture, citric acid and alcohol production using microorganisms}
- **Bioinformatics tools** {BLAST, FASTA, Structure Determination of Proteins (Homology Modelling) etc.}
- **Computer skills** {Good command on Operating systems, Microsoft office works and internet surfing} having six month diploma in certificate course in computer basics.
- **Other Skills** {Proficiency in English; written and oral, MS office, Working knowledge of NCBI tools for Bioinformatics Research}.

Personal Skills

Good communication skills, hardworking, dedicated, flexible, self-motivated, good at independent and team work.

Academic honors and Scholarships:

- Qualified in GATE, 2010
- Selected in All India level screening and interview for Project training through Biotech Consortium India Limited, DBT, Government of India, New Delhi.
- Received Six-month Project Scholarship from the DBT, Government of India
- First prize in national and state level rangoli competitions.
- First prize in state level Painting competitions.
- Third prize in state level drawing competitions.
- Awarded for Best assignment at HH Biotech Pvt. Ltd., Biotechnology Park, Lucknow, India.
- Two times awarded for second highest scorer during masters in Staini Memorial P.G. College, Rajasthan University, Jaipur (2008 & 2009).

Presentations

- Poster presented on title “**Immuno-modulatory role of weed in feed of *Cyprinus Carpio***” in “**The 10th Indian Fisheries and Aquaculture Forum**” at Lucknow, India (12th -15th Nov. 2014).
- Oral Presentation on title “**Effect of reformulated artificial fish feed on growth and immune response of *Clarias gariepinus***” in **The 10th Indian Fisheries and Aquaculture Forum**” Lucknow, India (12th -15th Nov. 2014).
- Poster presentation on title “***Ficus benghalensis* and *Leucena leucocephala*: Immuno-stimulators against *Aeromonas hydrophila* in *Clarias gariepinus***” in “**National Symposium on Recent trends in Innovative Research at Under-graduation : Science and Society**” at New Delhi, India (28th Feb – 2nd March 2013)
- Oral Presentation on titled “**Immunomodulatory effect of artificial feed supplemented with indigenous plants on *Clarias gariepinus* against *Aeromonas hydrophila***” at “**9th Indian Fisheries forum- Renaissance in Fisheries: Outlook and Strategies**”, (19th – 23rd Dec. 2011), Chennai, India.
- Poster Presented on titled “**Immunomodulatory effect of supplementation of *Ficus baghensis* prop roots & *leucaena leucocephala* pod seeds powder in artificial feed on Indian fresh water murrel, *Channa punctatus* against *Aeromonas hydrophilla***” in “**8th symposium on Disease in Asian Aquaculture**”, Organized by **Fish Health Section , Asian Fisheries Society** at Mangalore, India (21st-25th Nov. 2011).

Publications

- **Verma, V.K., Sehgal, N. & Prakash, O. Characterization and screening of bioactive compounds in the extract prepared from aerial roots of *Ficus benghalensis*. *International Journal of Pharmaceutical Sciences and Research* 13, 5056-69 (2015).**
- **Verma, V. K., Kumar S. R., Rani, K. V., Sehgal, N. & Prakash, O. Compound profiling in the methanol extract of *Kalanchoe blossfeldiana* (Flaming katy) leaves through GC-MS Analysis and evaluation of its Bioactive properties. *Global Journal of Advanced Biological Sciences* 1, 38-49 (2015).**
- **Verma, V. K., Rani, K. V., Sehgal, N. & Prakash, O. Enhanced disease resistance in the Indian snakehead, *Channa punctata* against *Aeromonas hydrophila*, through 5% feed supplementation with *F. benghalensis* (aerial root) and *L. leucocephala* (pod seed). *Aquaculture International*. 10499-014, 9870-7 (2014).**
- **Verma, V. K., Rani, K. V., Sehgal, N. & Prakash, O. Immunostimulatory effect of artificial feed supplemented with indigenous plants on *Clarias gariepinus* against *Aeromonas hydrophila*. *Fish Shellfish Immunol.* 1–8 (2013)**
- **Verma, V. K., Rani, K. V., Sehgal, N. & Prakash, O. Immunostimulatory response induced by supplementation of *Ficus benghalensis* root powder, in the artificial feed the Indian freshwater murrel, *Channa punctatus*. *Fish Shellfish Immunol.* 33, 590–6 (2012).**
- Manuscript published on "**Hepatic Fibrosis: Attenuation by Picroliv and Andrographolide – Promotion towards herbal world**"- (ISBN 978-3-8484-1665-3). In 2012, February, (Author Vipin Kumar Verma & Dr. Shashi Khandelwal)at LAMBERT Academic Publishing GmbH & Co. KG, Dudweiler Landstrabe 99, 66123 Saarbrücken, Germany.
- **Verma, V.K., Sehgal, N. & Prakash, O. Isolation and characterization of Immunoglobulin from *Clarias gariepinus* and infer its cross reactivity. *Indian Journal of Experimental Biology* (Accepted- In Press).**
- **Verma, V. K., Rani, K. V., Sehgal, N. & Prakash, O. Histopathological changes in liver, spleen and kidney of Indian Spotted Snakehead, *Channa punctata* when challenged with *Aeromonas hydrophila*. *DU Journal of Undergraduate Research and Innovation.* (Accepted- In Press).**
- **Verma, V.K., Kumar, S.R., Rani K.V., Sehgal, N. & Prakash, O. Weed in feed to develop disease resistance against *V. harveyi* in Indian spotted snakehead, *Channa punctata*. *Journal of Fish Biology* (Communicated).**

Research interests

Immuno-toxicology/ Molecular Biology/Molecular Immunology/ Stem Cell research/ Signal transduction/ Gene transcription and regulation/ Cell signaling/ Identification of Drug targets. I would like to carry out my doctoral studies in the above mentioned area or in those fields that are challenging and demand innovativeness irrespective of the systems involved.

Belief : “I am the lamp waiting to be lightened to light myself and nearby”.

Address for Correspondence (Residence)

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