Curriculum Vittae

1. Name : **Dr.ANSHUMALA**

2. HUSBAND'S NAME : Shri Sunil Prakash Chaturvedi

3. DATE OF BIRTH : 7th Sept, 1975.

4. ADDRESS : H-53, sterling castle
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6. Nationality : Indian

7. Religion : Hindu

8. Languages Known : Hindi and English

9. EDUCATIONAL QUALIFICATIONs

Sl.No.	Degree awarded	Main Subject	University	Year of qualifying	Division
1.	Ph.D.	Genetic characterization under section of Genetics	Aligarh Muslim University, Aligarh.(UP)	2008	Awarded In Feb'2008
2.	M.Sc.	Zoology Specialization Genetics	Aligarh Muslim University, Aligarh.(UP)	1997	Ist. Div. (61%)
3.	B.Sc.	Chemistry & Zoology	Kanpur University, Kanpur (UP)	1995	Ist. Div. (70%)

Subjects studied in M.Sc. (Pre.): 1) Animal Ecology, Environmental Biology and Biostatistics
2) Comparative Animal Physiology 3) Biological Chemistry
4) Cell & Molecular Biology 5) Immunology
6) Developmental Biology and Endocrinology

Subjects studied in M.Sc. (Final): 1) Advance Cytogenetics & Somatic Cell Genetics
2) Microbial Genetics 3) Developmental Genetics
4) Population Genetics 5) Human Genetics
6) Radiation Genetics & Chemical Mutagenesis

PhD. Title: "Molecular Genetic characterization of *Labeo dero* (kursa Bata) for population differentiation".

10. EMPLOYMENT DETAILS

Position	Institute/University	Duration	Area of Research/subject
Lecturer	1. D. S. N. Degree College, Unnao.(UP) 2. D.A.V. Degree College, Kanpur. (UP) 3. S. N. Sen Balika Degree College, Kanpur. (UP) 4. Honorary assignment of teaching at Dept. of Biotechnology, BU, Bhopal	1998 to 1999 1999 to 2000 2000 to 2001 Jan 2009 onwards	Zoology (cell & molecular biology)

11. RESEARCH EXPERIENCE

Position	Institute/University	Duration	Area of Research/subject
Senior Research Fellow	National Bureau of Fish Genetic Resources, Lucknow. (UP)	11.05.2001 to 31-12-2004	NATP (World Bank Funded) Project. Germplasm Inventory, evaluation and gene banking of freshwater fishes. Subprogrammes- Genetic Characterisation Gene Banking

AREA OF SPECIALIZATION/ TECHNIQUES LEARNT:

(a) Ph. D. work

- Allozyme and Microsatellite analysis.
- Genomic DNA isolation from fish Blood, PAG electrophoresis, Agarose gel electrophoresis, Polymerase chain reaction, Sequencing.

(b) Others

- Random Amplified Polymorphic DNA (RAPD), ARFLP, Mitochondrial DNA analysis, Single Nucleotide Polymorphism.
- Restriction Digestion, Ligation Reaction, Sequencing.

KNOWLEDGE ABOUT COMPUTERS/SOFTWARES:

- MS office and well versed in Word, Excel and PowerPoint presentation.
- Biovis image plus software to calculate molecular weight of DNA fragment.
- Image master 1D Elite to calculate molecular weight of DNA fragment.
- Primer 3 to locate the primer site in genome.
- DNAsis for Primer designing.

- Microchecker to determine null alleles at microsatellite loci.
- Genetix population genetics software.
- Genepop population genetics software used to calculate exact test and Ecomenicism.
- Internet and NCBI, PUBMED search.

12. Present Status **:** Women Scientist for WOS project -Genomic diversity at microsatellite loci in tribes of state of Madhya Pradesh, India.

13.Training programmes/Certificate courses

(Related to Aquaculture and Fisheries Management)

Sl. no.	Name of the courses/ Training programme	Date and duration	Held at	Organised by	Sponsored by
1	National conference:Cellular& Molecular Medicine	4th to 6th February,2010	School of biotec-nology,RGPV, Bhopal	School of bio-technnology	RGPV, Bhopal
2	Age and growth in Indian freshwater fish	31st July, 2001	NBFGR, Lucknow (U.P.)	NBFGR	NBFGR
3	Molecular markers : Tools for Fish population genetic analysis	29th Oct. to 10th Nov.,2001	NBFGR, Lucknow (U.P.)	NBFGR	NBFGR-NATP

Main objectives learned during training :

A) Age and growth in Indian freshwater fish

- Methods for age determination

b) Molecular markers : Tools for Fish population genetic analysis

Theoritical and practical aspects of Cytogenetic markers, allozymes**,** and Microsatellites.

13. Seminar/Workshop/Forum attended

Sl No.	Name of the Forum/ Workshop/Symposium	Organised by	Held at	Date and Duration	Contribution
1	NBFGR-NATP national workshop On **"Captive breeding of Prioritised cultivable and Ornamental Fishes for Commercial utilization And Conservation"**	**NBFGR,** Lucknow	**NBFGR,** Lucknow	29th-30th July,2001 (2days)	Participation
2	NBFGR-NATP national workshop on **"Life history traits of freshwater fish population for its utilization in**	**NBFGR,** Lucknow	**NBFGR,** Lucknow	6th June, 2002	Contribution And Participation

	conservation"				
3.	**Biodiversity and Resource Management september**	**NBFGR,** Lucknow	**The Academy Of Enviormental Biology,** Lucknow	11-13th september, 2002	Paper presentatiation
4.	**89th session of Indian Science Congress**	**Lucknow University** Lucknow	**Lucknow University,** Lucknow	3-7th January	Participation

14. OTHER QUALIFICATION

> P. G. DIPLOMA IN MUESOLOGY FROM AMU IN 1998.
> D.C.A. FROM R.C.S.M.

15. EXTRA CURRICULAR ACTIVITIES

>N.C.C. & SPORTS.

REFERENCES

Sl. no.	Name	Addresss	Relation
1.	Dr. MD. AFZAL (Professor)	**Section of Genetics, Department of Zoology** Aligarh Muslim University Aligarh Pin- 202002. Ph: (0571) 2701614	Research Guide
2.	Dr. V. MOHINDRA (Sr.Scientist)	**Genetic Characterization Lab** National Bureau of Fish Genetic Resources Canal Ring Road, Telibagh, Lucknow,U.P. Pin-226 002. Ph: (0522)442 440-1.	Research Guide
3.	Dr. K.K.Lal (Sr.Scientist)	**Genetic Characterization Lab** National Bureau of Fish Genetic Resources Canal Ring Road, Telibagh, Lucknow,U.P. Pin-226 002. Ph: (0522)442 440-1.	Research Guide
4.	Dr. Anil Prakash (Professor & Head)	**Department of Biotechnology,** Barkatullah University, Bhopal (M.P.)	Mentor
5.	Dr. N.N. Mehrotra (Executive Director)	**MP Council for Science & Technology** (MPCOST) , Bhopal (M.P.)	Mentor

PUBLICATIONS

Research papers

1. Vindhya Mohindra, **Anshumala**, Peyush punia, Lalit narain, Kapoor and Kuldeep K. Lal. **2005**. Microsatellite loci to determine population structure of *Labeo dero*. **Aquatic Living Resources. 18, 83-85.**
2. Vindhya Mohindra, **Anshumala**, Rajeev K. Singh, Peyush Punia, D. Kapoor and Kuldeep K. Lal. **2005**. Allozyme markers for population structure analysis in *Labeo dero* (Hamilton Buchanan, 1822) **Asian Fisheries Science. (Upcoming Issue - Volume 18, Numbers 1 and 2).**
3. Peyush Punia, Lalit Narain, Vindhya Mohindra, **Anshumala**, Rajeev K. Singh, D.Kapoor and Kuldeep K. Lal* .**2005.** Identification of polymorphic allozyme markers for assessing Genetic Variability in *Labeo dyocheilus* (McClelland,1839). **Acta Zoologica Sinica. 51(1):167-170**.

ABSTRACTS

1. Lalit Narain, Lavie Khulbe, Tanya Chauhan, Amit Mathews, Anup Mandal, **Anshumala**, Ranjana, Vindhya Mohindra, **Rajeev K. Singh**, Peyush Punia,and Kuldeep K. Lal Conserved flanking sequences as tool for identifying microsatellite markers for fish diversity and population genetics: *In* NBFGR-NATP workshop on Life history traits of fish population for its utilisationin conservation, 6th June2002 organised by NBFGR, Lucknow. NBFGR-NATP Pub-4 pp AF-11

SEQUENCE SUBMITTED TO NCBI

1.Bhardwaj,A.**(Anshumala)**, Mohindra,V., Lal,K.K., Punia,P., Singh,R.K. and Lakra,W.S. (2008). Sequence at microsatellite locus `Ldr-R3` in *`Sinilabeo dero (Labeo dero)`*. `FJ491403` (Direct submission).

2.Bhardwaj,A **(Anshumala)**, Mohindra,V., Lal,K.K., Punia,P., Singh,R.K. and Lakra,W.S. (2008). Sequence at microsatellite locus Ldr-R12 in *Sinilabeo dero (Labeo dero*). FJ491402 (Direct submission).

3.Bhardwaj,A**(Anshumala)**., Mohindra,V., Lal,K.K., Punia,P., Singh,R.K. and Lakra,W.S. (2008). Sequence at microsatellite locus Ldr-Ca12 in *Sinilabeo dero (Labeo dero*). FJ491401 (Direct submission).

4.Bhardwaj,A**(Anshumala)**., Mohindra,V., Lal,K.K., Punia,P., Singh,R.K. and Lakra,W.S. (2008). Sequence at microsatellite locus MFW11 in *Sinilabeo dero (Labeo dero*). FJ491400 (Direct submission).

5.Bhardwaj,A. **(Anshumala)**, Mohindra,V., Lal,K.K., Punia,P., Singh,R.K. and Lakra,W.S. (2008). Sequence at microsatellite locus MFW17 in *Sinilabeo dero (Labeo dero*). FJ491399 (Direct submission).

6.Bhardwaj,A. **(Anshumala)**, Mohindra,V., Lal,K.K., Punia,P., Singh,R.K. and Lakra,W.S. (2008). Sequence at microsatellite locus MFW15 in *Sinilabeo dero (Labeo dero*). FJ491398 (Direct submission).

7.Bhardwaj,A.**(Anshumala)**, Mohindra,V., Lal,K.K., Punia,P., Singh,R.K. and Lakra,W.S. (2008). Sequence at microsatellite locus MFW26 in *Sinilabeo dero (Labeo dero*). FJ491397 (Direct submission).

8.Bhardwaj,A. **(Anshumala)**, Mohindra,V., Lal,K.K., Punia,P., Singh,R.K. and Lakra,W.S. (2008). Sequence at microsatellite locus MFW24 in *Sinilabeo dero (Labeo dero*). FJ491396 (Direct submission).

9.Bhardwaj,A.**(Anshumala)**, Mohindra,V., Lal,K.K., Punia,P., Singh,R.K. and Lakra,W.S. (2008). Sequence at microsatellite locus MFW1 in *Sinilabeo dero (Labeo dero*). FJ491395 (Direct submission).

Date and Place: **(Dr.ANSHUMALA)**