

## CURRICULUM VITAE



1. **Name** : Dr. Anand Kumar
2. **Date of Birth** : 05-07-1976
3. **Qualification** : M.Sc. B.Ed. Ph.D.
4. **Designation** : Assistant Professor, Department of Zoology,  
B.S.N.V. P.G. College, Lucknow.
5. **Present official Address** : Department of Zoology, B.S.N.V.P.G. College, Charbagh,  
Lucknow -226 001, Uttar Pradesh, India.
6. **Address for correspondence**: Department of Zoology, B.S.N.V.P.G. College, Charbagh,  
Lucknow – 226001, U.P., India.  
Contact no. +919451062370,  
E-mail: anandkumar051976@gmail.com
7. **Field of specialization** : Fish Biology and Environmental Toxicology
8. **Working experience** :
  - A. **Teaching** : More than 10 years
  - B. **Research** : Approx. 15 years
9. **Life Members of other academic bodies/societies/institution** :
  1. Member of International Society for **Fluoride Research (ISFR)**, New Zealand.
  2. Life member of International scientific research journal **Trends in Biosciences**, Bhopal.
  3. Life member of international scientific research journal **Advances in Life Sciences**, Bhopal.
  4. Life member of **Anushandhan** Research journal of Science, published by B.S.N.V. Vigyan Parishad, Lucknow.
10. **Number of Seminar/ Conferences attended** : More than 15.
11. **Publications (Research papers + Book chapters)** : 18+ 06
12. **Any other relevant information** : Participated in several FDPs.  
Date : July, 2021

(Dr Anand Kumar)

## List of Publications:

### (A) Paper published in research journals:

1. A. Tripathi, A. Rani, **Anand Kumar** and M. Tripathi (2004). Effect of fluoride on morphological and behavioural changes in fresh water fish *Channa punctatus*. J. Ecophysiol. Occup. Helth., **4**: 83 – 88.( ISSN:0972-4397)
2. M. Tripathi and **Anand Kumar** (2005). Seasonal histological changes in testis of fresh water catfish *Clarias batrachus* (Linn.). Environment and Ecology **23**(3): 498- 502.(ISSN: 0970-0420)
3. A. Tripathi, N. Tripathi, **Anand Kumar** and M. Tripathi (2006). Effect of fluoride on vertebral column of a freshwater fish *Channa punctatus*. J. App. Biosci., **32**(2):164 -167. (ISSN:0379-8097).
4. **Anand Kumar**, N. Tripathi and M. Tripathi (2007). Effect of fluoride on lipid metabolism in fresh water catfish *Clarias batrachus* (Linn.). Environment and Ecology, **25 S**(3):683-686.(ISSN:0970-0420)
5. **Anand Kumar**, N. Tripathi and M. Tripathi (2007). Fluoride induced biochemical changes in fresh water catfish (*Clarias batrachus*, Linn.). Fluoride, **40**(1): 37-41.(ISSN:0015-4725 print/ 2253-4083)
6. **Anand Kumar**, S. Bajpai, N. Tripathi and M. Tripathi (2010). Respiratory response of Asian catfish *Clarias batrachus*, to fluoride. Fluoride, **43**(2): 97-101.(ISSN:0015-4725 print/ 2253-4083)
7. **Anand Kumar** (2020). Behavioral responses of freshwater Asian catfish *Clarias batrachus* (Linn.) exposed to sodium fluoride. JETIR, **7**(12): 1197-1201. (ISSN:2349-5163)
8. **Anand Kumar** and Veena P. Swami (2022).Sodium fluoride Induce Alterations in Glycogen Metabolism in Freshwater Catfish, *Clarias batrachus* (Linn.). IJFAS, **10** (1): 101-104.(ISSN:2347-5129 online/ 2394-0506 print)

### (B) Participated and paper presented in National and international conferences/ seminars/ workshops:

1. **Anand Kumar**, N. Narang and Madhu Tripathi (2005). **Reproductive status of *Clarias batrachus* after exposure to environmental pollution**. Presented in National Symposium on *Reassessment of genetic resources in India and need to evolve sustainable methodology for conservation* organized by N.B.F.G.R. Lucknow in collaboration with ICAR on 26-27 April 2005.
2. **Anand Kumar** and M. Tripathi (2018). **Effect of fluoride on glycogen metabolism in fresh water catfish *Clarias batrachus* (Linn.)**. Presented in International symposium on *Current trends in biological sciences* organized by Department of Zoology, University of Lucknow, Lucknow on 27-28 March, 2018.

3. **Anand Kumar and Basant Kumar (2019). *Physicochemical characteristics of Gomati river water in Lucknow***. Presented in National conference on local environmental changes have global effects ( LECGE-2019) organized by MLK PG College, Balrampur in association with Forest Department, U.P., GESA ,New Delhi and B.P.S, Prayagraj on 25-26 May, 2019.
4. **Anand Kumar and Basant Kumar (2019). *Excess fluoride intake and it's impact on human health***. Presented in National seminar on *Biodiversity and Development: Challenges of 21<sup>th</sup> Century* organized by IQAC & Faculty of Science, M.L.K.(P.G.) College, Balrampur in association with ABRF, Prayagraj and sponsored by U.P. council of science & Technology, Lucknow on 24-25 Nov,2019.
5. **Anand Kumar (2019). *Study on behavioural responses of freshwater catfish Clarias batrachus on exposure to fluoride***. Presented in International conference, *Global environment and human existence: Changes and challenges* organized by Research promotion committee Navyug Kanya Mahavidyalaya, Lucknow on sept 7-8, 2019.
6. **Anand Kumar (2020). *Effect of fluoride on pituitary endocrine system in male catfish Clarias batrachus*** presented in National seminar on *Consumerism, Social Equility and Environment Sustainability (NSCSEES- 2019)* sponsored by higher education U.P. government and organized by Academic Department Committee of BSNV PG College, Lucknow, held on Feb 1-2, 2020. LP 22, p 60.
7. **Anand Kumar, Ahmad, T; Dixit, VK; Swami,VP; Singh, A; Kumar, A; Gupta, BK and Shukla, SK (2020). *Uses of Artificial intelligence (AI) to mankind***. Presented in National seminar on *Prospects of Science and Society in the Era of AI (NSPSSEAI-2020)* organized by BSNV PG College, Lucknow in association with Vijnana Bharti and The Institute of Engineers (India), held on March 3-4, 2020.
8. **Anand Kumar and Basant Kumar (2021). *Fluoride pollution and its hazardous effects on human health***. Presented in one day National Seminar on *Environmental Challenge and Sustainability (ECASSEPT-21)* organized by academic development committee, BSNV PG College, Lucknow, held on 15 Sept 2021.
9. **Anand Kumar (2021). *Impact of lockdown on ambient air quality in Lucknow city (U.P.)***. Presented in national seminar on *Perception of science in the post covid era* organized by department of Zoology, . D.A.V. P.G. College, Lucknow, held on 16<sup>th</sup> November, 2021. (ISBN 9789355789150)
10. **Anand Kumar (2021). *Toxicity of Fluoride Compound to Aquatic Organisms with Special Reference to Fishes: A Mini Review***. Presented in International Conference On Multidisciplinary Aspects of Environment and Sustainable Development after Covid-19 Pandemic Organised by Department of Zoology, Raj Rishi Govt. Autonomous College, Alwar, Rajasthan, held on 15<sup>th</sup> – 18<sup>th</sup> Dec, 2021.

**Book Chapters : o6**

## **Behavioural alterations in freshwater stinging catfish, *Heteropneustes fossilis* (Bloch) after fluoride toxicity.**

- Authors : Sandeep Bajpai, **Anand Kumar**, N.Tripathi, S. Tiwari, M. Tripathi.
- Editor: Dr. S.P. Trivedi
- Publication Year : 2011 (ISBN:9788170357469)
- Book : Perspective in Animal Ecology and Reproduction (Chapter – 15)
- Volume 7 : 217-229,
- Publisher : Daya Publishing House, New Delhi

## **Reproductive potential of freshwater catfish in Fluoride contaminated water.**

- Authors : **Anand Kumar**, S. Bajpai, N.Tripathi, M.Tripathi.
- Editor: Dr. S P. Trivedi
- Publication Year : 2011
- Book : Perspective in Animal Ecology and Reproduction ( Chapter-23)
- Volume, 8 : 433-441(ISBN:9788170357476)
- Publisher : Daya Publishing House, New Delhi.

## **Environment, It's Constituents and Chemistry**

- Author : Basant Kumar and Anand Kumar
- Editor: Dr.Ashok Kumar & Bipin Kumar
- Book : Recent trends in biodiversity and Environmental Science (Chapter-6)
- **ISBN:** 9788195026739
- Publication year: 2021, Pages: 123-144.
- Publisher: Anvi Books & Publishers, New **Delhi**

## **A Review Study of Fluoride Toxicity to Ichthyofauna**

- Author : Anand Kumar
- Editor: Dr. Ashok Kumar & Dr. Bipin Kumar
- Book : Recent trends in biodiversity and Environmental Science (Chapter- 8)
- ISBN: 9788195026739
- Publication year: 2021, Pages: 165-178.
- Publisher: Anvi Books & Publishers, New Delhi

## **Toxicity of fluoride compound to aquatic organisms with special reference to fishes: A mini review.**

- Author ; Anand Kumar
- Editor: Dr. Mamta Sharma & Dr. Hukam Singh.
- Book: Environment pollution: A theeat to human life
- ISBN :9781989416556
- Publication year: 2022. Pages: 80-99
- Publisher: Pustak Bharti (Books India), Toronto Canada

## **Hematological responses in Sting Catfish, *Heteropneustes fossilis* ( Bloch) following fluoride exposure**

- Author ; Sandeep Bajpai, **Anand Kumar** and Madhu Tripathi
- Editor: Dr. Tabrez Ahmad et. al.
- Book: Recent Frontiers in Environment, Ecology and Biodiversity
- ISBN : 9789390870103
- Publication year: 2022. Pages: 1-16.
- Publisher: Akhand Publishing House, Delhi, India

### **Participated in online FDP and Workshops:**

1. Participated and completed ***One week FDP on ITC Learning and E – Content Development*** (20 – 26 July, 2020) organized by IQAC& PSSDC Dr. RMLAU , Ayodhya, in association with IGNU regional centre, Lucknow.
2. Participated and completed in the ***National Workshop on E – Content Development and online Teaching*** (4 – 8 Aug, 2020) organized by IQAC of SRS Mahila Mahavidyalaya, Bareilly in collaboration with Dr Janak Singh Socio-cultural Educational society, Bareilly.
3. Participated and completed ***4 week FIP/ Orientation Programme*** (1 – 30 Sept, 2020) organized by Teaching Learning Centre, Ramanujan College ,Delhi University under the aegis of MHRD ,PMMMNMTT.
4. Participated and completed ***2 week FDP on Research Methodology*** (1 –15 Oct, 2020) organized by Teaching Learning Centre, Ramanujan College ,Delhi University under the aegis of MHRD ,PMMMNMTT.
5. Participated and completed ***one week FDP on Advanced Pedagogical Techniques*** ( 29 Oct – 5 Nov, 2020) organized by Teaching Learning Centre, Ramanujan College ,Delhi University under the aegis of MHRD ,PMMMNMTT.
6. Participated and completed ***2 week of refresher course on Data Analysis with statistical Methods*** (21 Dec – 3 Jan, 2021) organized by Teaching Learning Centre, Ramanujan College ,Delhi University under the aegis of MHRD ,PMMMNMTT.
7. Participated and completed ***one week online National FDP on Multidisciplinary Skills for the faculties of Higher Education*** (18 – 24 March, 2021) organized by IQAC of Veer Savarkar Government College, Obedullaganj, Raisen (M.P.)
8. Participated and completed ***7 Days FDP on Indian Education ( A Paradigm Shift in the Present Senerio*** (1- 7 Jun, 2021) organized by faculty of Education, Teerthanker Mahaveer University (TMU) Muradabad.
9. Participated and completed ***one week online FDP on Introduction to Machine Learning*** ( 21 – 25 Jun, 2021) Organized by Department of computer science and engineering, Indra Gandhi Delhi Technical University for Women (IGDTUW), Delhi.
10. Participated and completed ***one week national level FDP on Transformation in Indian Education through New Education Policy-Challenges and Development*** (5 – 11 July,

2021) organized by Government First Grade College for Women Balamatta, Mangaluru in association with St. Aloysius College (Autonomous), Mangaluru.

11. Participated and completed **4 week FIP/ Orientation Programme** (2– 28 Aug, 2021) organized by UGC-HRDC Centre, University of Lucknow, Lucknow.
12. Participated and completed **One week Virtual International FDP on “Legal, Ethical and Social Issues of Digital Age: Stay Online Stay Safe”** (1-8 Sept, 2021) organized under the aegis of IQAC by Department of Commerce, Government Ramnarayan Chellaram College of Commerce and Management, Bengaluru.
13. Participated and completed **2 week of refresher course in Zoology** (15 – 29 Dec, 2021) organized by Teaching Learning Centre, Ramanujan College ,Delhi University in collaboration with Department of Zoology, PSGR Krishnammal College for Women, Coimbatore, Tamil Nadu under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching.
14. Participated and completed **5 days online international FDP on Recent Trends in Yoga** ( 4– 8 Feb, 2022) Organized by Department of Yoga, Degree College of Physical Education, Amravati, Maharashtra.
15. Participated and completed **7 days online international workshop on Shikshan, Sodh Evam Rojgar Me Matrabhasha Ki Upadeyata** ( 21– 27 Feb, 2022) Organized by VBS Purvanchal University, Jaunpur in collaboration with Guru Nanak Degree College (Autonomous), Chennai (T.N.)

#### **Short term course completed:**

- Participated and completed 10 Days Online short term Course on **Know Thyself: Balancing Mind, Body and Soul** organized by Maitreyi College, University of Delhi from 30 Sept – 9 Oct, 2020.
- Participated and completed **4 weeks International Online Certificate Course on “BASIC TECHNIQUES IN MICROBIOLOGY”** organized by Department of Microbiology, Sacred Heart College (Autonomous), Tirupattur, Tamil Nadu in association with Indian Microbiologist Society, India and Western Rio Janeiro State University - Uezo, Rio De Janeiro, Brazil from 4 July to 8 Aug, 2021.

#### **Participated in National & International Seminars / Webinar and Conferences:**

1. Participated in **National Symposium on Reassessment of genetic resources in India and need to evolve sustainable methodology for conservation** organized by N.B.F.G.R. Lucknow in collaboration with ICAR on 26-27 April 2005.
2. **Participated in International symposium on Current trends in biological sciences** organized by Department of Zoology, University of Lucknow, Lucknow on 27-28 March, 2018.

3. Participated in **National conference on local environmental changes have global effects ( LECGE-2019)** organized by MLK PG College, Balrampur in association with Forest Department, U.P., GESA ,New Delhi and B.P.S, Prayagraj on 25-26 May, 2019.
4. Participated in **National seminar on *Biodiversity and Development: Challenges of 21<sup>th</sup> Century*** organized by IQAC & Faculty of Science, M.L.K.(P.G.) College, Balrampur in association with ABRF, Prayagraj and sponsored by U.P. council of science & Technology, Lucknow on 24-25 Nov,2019.
5. Participated in **International conference, *Global environment and human existence: Changes and challenges*** organized by Research promotion committee Navyug Kanya Mahavidyalaya, Lucknow on sept 7-8, 2019.
6. Participated in an **international webinar From Virus to Vaccine: An Insight into COVID-19 On Mental and Physical Health** organized by dept. of Economics and NSS Unit of Sapatgram College, Sapatgram, Dhubri, Assam on16 Aug,2020.
7. Participated in **National seminar on *Consumerism, Social Equility and Environment Sustainability (NSCSEES- 2019)*** sponsored by higher education U.P. government and organized by Academic Department Committee of BSNV PG College, Lucknow, held on Feb 1-2, 2020.
8. Participated in **National seminar on *Prospects of Science and Society in the Era of AI (NSPSSEAI-2020)*** organized by BSNV PG College, Lucknow in association with Vijnana Bharti and The Institute of Engineers (India), held on March 3-4, 2020.
9. Participated in **National webinar on *Pedagogy of teaching and learning amidst COVID-19 pandemic*** organized by Department of English, BSNV PG college, Lucknow held on May 7,2020.
10. Participated in **National webinar on *The role of chemistry in sanitization and personal hygiene in context of COVID-19*** organized by Department of chemistry, BSNV PG college, Lucknow, held on May 19,2020.
11. Participated in **National webinar on *Pandemic Novel Corona Virus Disease -2019 (COVID-19) the unseen and unsaid*** organized by SJNM PG college, Lucknow , held on May 22, 2020.
12. Participated in **International webinar on Tissue engineering using stem cells and biomaterials** organized by SJNM PG College on May 27, 2020.
13. Participated in **National webinar on *COVID-19 challenges and opportunities of rural development in India*** organized by SJNM PG College on May 28, 2020.
14. Participated in **National webinar on *COVID-19: Causes, Effect and Probable Wayout*** organized by Department of Zoology, SJNM PG College, Lucknow on June 10, 2020.
15. Attended **One Day National Webinar on "GREEN AUDIT FOR EDUCATIONAL INSTITUTES"** jointly organized by Internal Quality Assurance Cell (IQAC) and Institution's Innovation Council, Bajaj College of Science, Wardha on 23rd December, 2020.
16. Attended a virtual session on ***Research Publications & Patents: Comparing and Contrasting*** on 27th February 2021 organized by IQAC & Depts of IT & DS of Thakur College of Science & Commerce in association with UDIT, University of Mumbai.

17. Participated in the National Seminar on “**Current Trends in Diagnostic Approaches for Diagnosis of Important Livestock Diseases**” organized by Society for Bioinformatics & Biological Sciences, Prayagraj in collaboration with Applied Research & Development Organization, Jammu on March 07, 2021 in virtual mode.
18. Participated in the National Webinar on “**Nature- Based Solutions for Climate change, People and Biodiversity**” Held on May 22, 2021. Organized by Bora Institute of Management Sciences, Lucknow, in association with University of Lucknow.
19. Participated in one day National Seminar on **Environmental Challenge and Sustainability (ECASSEPT-21)** organized by academic development committee, BSNV PG College, Lucknow, held on 15 Sept 2021.
20. Participated in one day national seminar on **Perception of science in the post covid era** organized by department of Zoology, D.A.V. P.G. College, Lucknow, held on 16<sup>th</sup> November, 2021.
21. Participated in **International Conference On Multidisciplinary Aspects of Environment and Sustainable Development after Covid-19 Pandemic** Organised by Department of Zoology, Raj Rishi Govt. Autonomous College, Alwar, Rajasthan, held on 15<sup>th</sup> – 18<sup>th</sup> Dec, 2021.