


Curriculum Vitae

Personal contact information:

Name	Dr. ARUN RATN (Assistant Professor)														
Name of College	PG-Department of Zoology, Sanatan Dharm (P.G.) College, Muzaffarnagar-251001, UP (India).														
Date of Birth	3 rd June, 1986														
Father & Mother	PRATAP SINGH SHAKYA and BITULA DEVI														
Corresponding Address	PG-Department of Zoology, Sanatan Dharm (P.G.) College, Bhopa Road, Muzaffarnagar-251001, UP (India)														
Permanent Address	House No. 74, Mohalla Radha Krishna, Aliganj, Etah, Uttar Pradesh-207247														
Contact Numbers	+918858189565, +918953921958														
E-mail ID	arunratnbt14@gmail.com														
ORCID ID	0000-0002-7656-9725	Citation indices:													
Scopus ID	57194180912	<table border="1"> <thead> <tr> <th></th> <th>All</th> <th>Since 2017</th> </tr> </thead> <tbody> <tr> <td>Citations</td> <td>223</td> <td>221</td> </tr> <tr> <td>h-index</td> <td>7</td> <td>7</td> </tr> <tr> <td>i10-index</td> <td>6</td> <td>6</td> </tr> </tbody> </table>			All	Since 2017	Citations	223	221	h-index	7	7	i10-index	6	6
	All	Since 2017													
Citations	223	221													
h-index	7	7													
i10-index	6	6													

Present Permanent Teaching Job: Assistant Professor (UPHESC), PG-Department of Zoology, Sanatan Dharm (P.G.) College, Muzaffarnagar- 251001, UP, INDIA (Affiliated to Maa Shakumbhari University, Saharanpur, Uttar Pradesh, India) (Joining Date- 07/06/2022 to Present).

Previous Teaching Job: Assistant Professor, Department of Zoology, Isabella Thoburn College, University of Lucknow, Lucknow-226007 [07/12/2017 to 08/09/2020 (Ad-hoc); 09/09/2020 to 31/05/2022 (Contractual)].

Academic Qualifications:

Qualifications	Name of Department/College	Board/University	Year	Marks	Grade
Doctor of Philosophy (Ph. D.)	Department of Zoology	University of Lucknow, Lucknow	2021	Awarded on 11/02/2021	
M. Sc.	Department of Biotechnology	University of Calicut, Kerala	2010	63.67%	First
B. Sc.	Ganjdundwara College, Ganjdundwara, Etah	Dr. Bhim Rao Ambedkar University, Agra	2007	56.74%	Second
Intermediate	REI Intermediate College, Dayalbagh, Agra	UP Board	2002	63.60%	First
High School	Gautam Buddha Inter College Aliganj, Etah	UP Board	2000	66.67%	First

Awards and Honors:

- ❖ **Best Research Paper Award (2017-2018)** conferred by **University of Lucknow**.
- ❖ **Best Research Paper Award (2016-2017)** conferred by **University of Lucknow**.
- ❖ **ISCA Best Poster Award (2015-2016)** conferred by **103rd Indian Science Congress**, held at **University of Mysore, Mysuru, Karnataka**.

Fellowships and Scholarships:

S. No.	Name of Fellowships	Name of awarding Institution/University	Year	Roll No.	AIR
(I) Availed Fellowships:					
1.	CSIR-JRF/SRF (5 years)	CSIR-HRDG, New Delhi	2012-17	325628	28
2.	CEEB [BIT] 2 years	JNU, New Delhi	2008-10	209673	317
(II) Non-availing Fellowships:					
1.	CSIR-NET/LS	CSIR-HRDG, New Delhi	Dec-2010	340476	169
2.	CSIR-NET/LS	CSIR-HRDG, New Delhi	June-2010	312965	206
3.	CSIR-NET/LS	CSIR-HRDG, New Delhi	Dec-2009	314217	91
4.	GATE	IIT, Roorkee	2009	XL7370232	1389

List of Publications: Total - 19

(A) International Journals (10):

1. P. Kanaujia, **A. Ratn**, Y. Awasthi, S. P. Trivedi, M. Kumar and Y. K. Sharma (2023). "Hexavalent chromium induced oxidative, histopathological and hematological changes in snakehead fish, *Channa punctatus*" **Journal of Environmental Biology**, **44**, 2023 (ISSN: 0254-8704 (Print) ISSN: 2394-0379 (Online)).
2. RAJESH KUMAR SRIVASTAVA, SABREEN RIZVI, SHIVANGI MISHRA, AMITA KANAUJIA, SHEKHAR CHAND AND **ARUN RATN*** (2022). "AN INVENTORY OF DIVERSITY OF BUTTERFLY SPECIES IN LUCKNOW REGION OF NORTHERN INDIAN PLAIN" **UTTAR PRADESH JOURNAL OF ZOOLOGY**, **43** (17), 1-11 (ISSN: 0256-971X (P))
3. RAJESH KUMAR SRIVASTAVA, SHIVANGI SINGH, SHIVANGI MISHRA, PRAKRITI VERMA, SUNIL P. TRIVEDI AND **ARUN RATN*** (2022). "ANALYSIS OF HAEMATOLOGICAL AND HISTOPATHOLOGICAL MANIFESTATIONS IN GILLS AND MUSCLE OF FISH *Channa punctatus* (Bloch 1793) EXPOSED TO SYNTHETIC PYRETHROID DELTAMETHRIN" **UTTAR PRADESH JOURNAL OF ZOOLOGY**, **43** (17), 83-90, (ISSN: 0256-971X (P))

4. Sunil P. Trivedi, **Arun Ratn**, Yashika Awasthi, Manoj Kumar and Abha Trivedi (2021). **“In vivo assessment of dichlorvos induced histological and biochemical impairments coupled with expression of p53 responsive apoptotic genes in the liver and kidney of fish, *Channa punctatus* (Bloch, 1793)”**. Comparative Biochemistry and Physiology, Part C, 245, 109032, **Impact Factor: 3.228, (ISSN No. 15320456)**.
5. S. P. Trivedi, **A. Ratn**, Y. Awasthi, N. Gupta, M. Kumar and A. Trivedi (2021). **“Micronuclei and other nuclear abnormalities in phorate exposed fish, *Channa punctatus*”**. Journal of Environmental Biology, 42 (5), 1221-1231. **Impact Factor: 0.781, (ISSN No. 23940379)**.
6. Yashika Awasthi, **Arun Ratn**, Rajesh Prasad, Manoj Kumar, Abha Trivedi, J. P. Shukla, Sunil P. Trivedi (2019). **“A protective study of curcumin associated with Cr⁶⁺ induced oxidative stress, genetic damage, transcription of genes related to apoptosis and histopathology of fish, *Channa punctatus* (Bloch, 1793)”**. Environmental Toxicology and Pharmacology, 71, 103209. **Impact Factor: 3.48, (ISSN No. 13826689)**.
7. Manoj Kumar, Neelima Gupta, **Arun Ratn**, Yashika Awasthi, Rajesh Prasad, Abha Trivedi, Sunil P. Trivedi (2019). **“Biomonitoring of Heavy Metals in River Ganga Water, Sediments, Plant, and Fishes of Different Trophic Levels”**. Biological Trace Element Research, **Impact Factor: 2.49, (ISSN No. 1634984)**.
8. Yashika Awasthi, **Arun Ratn**, Rajesh Prasad, Manoj Kumar, Sunil P. Trivedi (2018). **“An in vivo analysis of Cr⁶⁺ induced biochemical, genotoxicological and transcriptional profiling of genes related to oxidative stress, DNA damage and apoptosis in liver of fish, *Channa punctatus* (Bloch, 1793)”**. Aquatic Toxicology, 200, 158–167. **Impact Factor: 3.98 (UGC Journal no. 8137), (ISSN No. 0166445x)**.
9. **Arun Ratn**, Rajesh Prasad, Yashika Awasthi, Manoj Kumar, Abha Misra, Sunil P. Trivedi* (2018). **“Zn²⁺ induced molecular responses associated with oxidative stress, DNA damage and histopathological lesions in liver and kidney of the fish, *Channa punctatus* (Bloch, 1793)”**. Ecotoxicology and Environmental Safety, 151, 10–20. **Impact Factor: 3.974 (UGC Journal no. 12541), (ISSN No. 01476513)**.
10. **Arun Ratn**, Yashika Awasthi, Manoj Kumar, Sunil Kumar Singh, Renu Tripathi and Sunil P. Trivedi (2017). **“Phorate induced oxidative stress, DNA damage and differential expression of p53, apaf-1 and cat genes in fish, *Channa punctatus* (Bloch, 1793)”**. Chemosphere, 182, 382-391. **Impact Factor: 4.427(UGC Journal no. 5539), (ISSN No. 00456535)**.

(B) National Journals (09):

11. Piyush Sharma, Shekhar Chand, **Arun Ratn (2023)**. A Systematic Review Report on Impact of Yoga Practices on Immune Response with special reference to SARS-COV-2 Pandemic. **Indian Journal of Ancient Medicine and Yoga**, **16 (2), 73-81**. (pISSN 0974-6986, eISSN 0974-6994).
12. Shekhar Chand, **Arun Ratn**, Piyush Sharma, Rajesh K. Srivastava (2023). “A Study on Health Impairments due to Regular Standing Posture of Indian Urban Women”. **International Journal of Science and Research (IJSR)**, **12 (2), 1036-1041** (ISSN: 2319-7064).
13. Sakina Bano, Rajesh K. Srivastava, Chitra Singh, Sunil P. Trivedi, Shekhar Chand and **Arun Ratn*** (2022). “INVESTIGATION OF MORPHOMETRIC CHARACTERS AND THEIR CORRELATIONS IN FISH *Channa punctatus* FROM BARABANKI, UTTAR PRADESH (INDIA)” **Journal of Global Biosciences**, **11 (7), 9393-9402** (ISSN No. 2320-1355)
14. Rajesh K. Srivastava, Bushra Islam, Ashi Shukla and **Arun Ratn*** (2022). “IMPACT OF DELTAMETHRIN (2.8% EC) ON SERUM BIOCHEMISTRY AND HISTOPATHOLOGY OF FISH, *Channa punctatus* (BLOCH 1793)” **International Journal of Development Research**, **12 (08), 58223-58226** (ISSN No. 2230-9926)
15. Laiba Chowdhary, Rajesh K. Srivastava, Sunil P. Trivedi, Shekhar Chand and **Arun Ratn*** (2022). “Comparative Analysis of Morphometric and Meristic Parameters of Fish Species from Lucknow Zone, Uttar Pradesh (India)” **International Journal of Research and Analytical Reviews (IJRAR)**, **9 (3), (E-ISSN 2348-1269, P- ISSN 2349-5138)**
16. Rajesh K. Srivastava, Tahreem Siddiqui, Amita Kanaujia, Shekhar Chand and **Arun Ratn*** (2022). “A survey on Avian Biodiversity in habitats of Lucknow zone of North Indian Plain” **International Journal for Research Trends and Innovation**, **7 (9), 227-233** (ISSN No. 2456-3315)
17. Anand P Singh, Jahnvi Saxena, Rajesh K Srivastava, Sunil P Trivedi and **Arun Ratn*** (2022). “Comparative analysis of morphometrics of fish species from river Ganga and Gomti of Uttar Pradesh (India)” **International Journal of Fisheries and Aquatic Studies**, **10 (5): 119-123** (E-ISSN: 2347-5129, P-ISSN: 2394-0506)
18. Rajesh K Srivastava, Priyamvada Awasthi, Adesh Kumar and **Arun Ratn*** (2022). “Quantitative status of population of insects from Lucknow region, Uttar Pradesh, India” **Journal of Entomology and Zoology Studies**, **10 (5), 330-334** (E-ISSN: 2320-7078, P-ISSN: 2349-6800).

19. Manoj Kumar, **Arun Ratna**, Rajesh Prashad, S. P. Trivedi, Y. K. Sharma & A. K. Shukla (2015). “Assessment of Zinc bioaccumulation in fish, *Channa punctatus* exposed chronically”. **G.J.B.B., Vol. 4 (4), 347-355.** (UGC Journal no. 63073), (ISSN No. 22789103).

Book Chapter:

1. Yashika Awasthi, **Arun Ratn**, Anubha Shukla, Manoj Kumar and Sunil P. Trivedi (2018). A book chapter entitled “**Nutrigenomics: An Overview**” published in book named **Xenobiotics, Environment and Functional Biology**, AMIGA PRESS INC. New Delhi, ISBN: 978-93-84533-51-9

Training programs and workshops:

1. I participated in “**One Day awareness workshop on science of keeping bee’s hold**” organized by **Department of Zoology, Isabella Thoburn College, Lucknow** and supported by **Royal Honey and Bee Farming Society, Lucknow, held at 24th April, 2019.**
2. I participated in the “**National Symposium on Recent Advances in Zoological Research**” on 30th March, 2016 under UGC-SAP (DRS-II) program organized by the **Department of Zoology, University of Lucknow, Lucknow.**
3. I actively participated in the Workshop on “**2D Electrophoresis**” in Collaboration with **BIO-RAD**, organized by the **Department of Biotechnology, Isabella Thoburn College, Lucknow, Uttar Pradesh, India, held at 13th -14th November, 2014.**
4. I successfully completed the “**One Day Training Programme on Biodiversity & its Conservation**” organized by **Department of Zoology, University of Lucknow.**

Presentations (Oral/poster) in National/International Seminars/Conferences/Symposia:

1. **Arun Ratn (2023).** “**Impacts of Climate Change: Conservation of Freshwater Fish Fauna**” (Oral Presentation) in National Seminar on Breaking Gender Biases: A Step towards Sustainable Development organized by Department of Chemistry, Navyug Kanya Mahavidyalaya, Lucknow (14th February, 2023).
2. **Arun Ratn** and Sunil P. Trivedi (2019) “**DNA repair in phorate induced erythrocytes of fish, *Channa punctatus* (Bloch, 1793)**” (OP-15) in the section: Animal, Veterinary and Fishery Sciences” during 106th Indian Science Congress, Jalandhar organized by LPU, Punjab, India.
3. **Arun Ratn**, Rajesh Kumar Srivastava and Sunil P. Trivedi (2018) “**Educational Equality in Society (EES): a primary sentinel for peace and prosperity**” (PP) in **APAMEI International conference 2018** on the theme entitled “**Transcending Boundaries for Peace: Making Peace Peacefully**” organized by **Asia-Pacific Association of Methodist-related Educational Institutions**, held at Isabella Thoburn College, Lucknow, India on 01-04 November, 2018.

4. **Arun Ratn (2018)** “*p53*-mediated DNA repairing in *Channa punctatus*” in National conference on “**Environmental Pollution: Burden and Strategies for control**” organized by Department of Chemistry, **Isabella Thoburn College, Lucknow** and sponsored by **Department of Higher Education, Government of Uttar Pradesh, March 27th -28th, 2018.**
5. **Arun Ratn and Sunil P. Trivedi (2017)** “**Differential Expression of p53, bax, bcl-2 and sod genes in Dichlorvos exposed liver of fish, *Channa punctatus***” in the sub-section “Endocrinology, Biotechnology and Physiology (EBP) of the section: Animal, Veterinary and Fishery Sciences” during **104th Indian Science Congress** organized by **Sri Venkateswara University, Tirupati**, Andhra Pradesh, India, January, 3-7, 2017.
6. **Arun Ratn and Sunil P. Trivedi (2016)** “**Transcriptional Profiling of antioxidant and apoptotic genes in Phorate exposed fish, *Channa punctatus***” in the 3rd session: Recent Trends in Human & Animal Health Management of International Seminar on “Recent Trends and Experimental Approaches in Science, Technology and Nature” organized by IISR, Lucknow in collaboration with the Society for Science and Nature on 23rd and 24th December, 2016. (Poster No. IS-20069)
7. **Arun Ratn and Sunil P. Trivedi (2016)** “**Analysis of Differentially expressed genes p53, apaf-1 and bcl-2 in Dichlorvos exposed fish, *Channa punctatus***” in 28th All India Congress of Zoology (AICZ) and International Symposium on “Understanding the molecules of Life in the Era of New Biology” organized by Life Science Departments, Davangere University, Shivagangothri, Davangere, Karnataka, India, sponsored by UGC, Government of India and Government of Karnataka in collaboration with the Zoological Society of India, on 20th to 22nd October, 2016. (pp30 in Cell and Molecular Biology)
8. **Arun Ratn (2016)** presented an oral presentation on the topic “**Transcriptional modulations of p53, bax, apaf-1 and bcl-2 genes in Phorate exposed liver of fish, *Channa punctatus***” in National Seminar on Science and Technology for National Development, organized by Indian Science Congress Association, Kanpur Chapter and Department of Zoology, D.B.S. College, Kanpur, on 104 years Celebration Programme during 29th& 30th September, 2016.
9. **Arun Ratn and Sunil P. Trivedi (2016)** presented a poster on the topic “**Phorate induced differential gene expression in liver of fish, *Channa punctatus***” in National Seminar on Paradigm Shifts in Biochemistry: Emerging Trends and New Vistas, organized by Department of Biochemistry, University of Lucknow, Lucknow, and September 10, 2016.
10. **Arun Ratn and Sunil P. Trivedi (2016)** “**Phorate induced Gonadotoxicity and Genotoxicity in fish, *Channa punctatus***” in the section of “**Environmental Sciences**” for “**Best Poster Award**” during 103rd Indian Science Congress organized by **University of Mysore**, Mysuru, Karnataka, India, January, 3-7, 2016.
11. **Arun Ratn and Sunil P. Trivedi (2015)** “**Assessment of Dichlorvos induced biochemical perturbations in fish, *Channa punctatus* (Bloch)**” in 26th All India Congress of Zoology and International Symposium on “Innovation in Animal Sciences for food Security, Health security and livelihood-2015” organized by Babasaheb Bhimrao Ambedkar University, Lucknow, Uttar Pradesh in collaboration with the Zoological Society of India, October 29-31, 2015.
12. **Arun Ratn and Sunil P. Trivedi (2014)** “**Assessment of Mercuric chloride induced oxidative stress and enzymatic alterations in fish, *Channa punctatus* (Bloch)**” in International Conference on Faunal Biodiversity and their Conservational Strategies organized by Department of Zoology, University of Lucknow, Lucknow, U.P., India, March 22-23, 2014.

Declaration:

I, hereby, declare that the above furnished details/achievements are true to my consent and honestly prepared, keeping in mind, the moral ethical values in presenting the information. Finally, I solemnly swear to the upliftment of the society and human welfare on the basis of social, religious and environmental points in progressive and constructive ways.



**(Dr. ARUN RATN)
[CSIR-JRF/SRF, CSIR-NET/LS,
GATE, CEEB-BIT/JNU]
ASSISTANT PROFESSOR
PG-DEPARTMENT OF ZOOLOGY
SANATAN DHARM COLLEGE
MUZAFFARNAGAR-251001
UTTAR PRADESH (INDIA)**