


Curriculum Vitae

Full Name:	Dr. Rajendra Singh FARTYAL, F.R.E.S. (□□. □□□□□□□□ □□□□ □□□□□□□□, एफ . आर . ई . एस .)			
Designation:	Associate Professor			
Department:	Department of Zoology			
Campus:	Birla-Chauras			
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Email	fartyalrs@gmail.com			
Education Qualification:	Degree, University, Year > In 2001: Ph.D. ZOOLOGY . Thesis entitled " <i>Studies on the systematics and cytogenetics of Drosophilids of Kumaon region</i> ", under the supervision of Prof. B. K. SINGH, Cytogenetics Laboratory, Department of Zoology, DSB Campus, Kumaon University, Nainital, Uttarakhand, India. > In 1995: M.Sc. ZOOLOGY from the Kumaun University, Nainital, Uttarakhand, India > In 1993: B.Sc. BIOLOGY (Zoology, Botany & Forestry) from the Kumaun University, Nainital, Uttarakhand, India.			
Teaching Experience:	__19__ Years	Research Experience:	__24__ Years	
Research Interest and Fields of Specialization Research field: 1. Systematics, Cytogenetics, Molecular Phylogeny, Ecology, Evolution, pest and Biodiversity of family – Drosophilidae (Diptera- <i>Drosophila</i> [fruit fly]). Research interest: 2. Planning create useful website for taxonomy and identification of Drosophilidae (for online Species diagnosis). 3. We try to DNA sequencing & molecular phylogeny of all known and new species of Drosophilids of western Himalayan region.				
Honours & Awards <ol style="list-style-type: none"> Fellowship & Award: F.R.E.S. (Fellow of the Royal Entomological Society), London on 01.05.2019. Visiting Associate Professor under the institute program to invite foreign guest researchers (Japanese Fiscal Years 2009) from July 1st, 2009 to September 30th, 2009 in The Institute of Low Temperature Science, Hokkaido University, Sapporo, JAPAN. Invited as a resource person by Department of Zoology, Dr. Harisingh Gour Vishwavidyalaya, Sagar for MOOCs SWAYAM Course, Annual Refresher Programme in Teaching (ARPIT) recording at EMMRC for National Resource Centre (NRC) in Zoology on 11 January 2019. <i>Two modules/presentations</i> entitled 'Population concepts and Metapopulation' and 'Allopatric and Sympatric Populations'. (Start Date 19/11/2018; End Date 28/02/2019; Enrollment End Date 15/01/2019) 				
Member of Academic Institutions <ol style="list-style-type: none"> 				
Membership of Scientific Organizations <ol style="list-style-type: none"> The Royal Entomological Society, London, UK The Entomological Society of India The International Society of Zoological Sciences, CAS, China Vigyan Bharati, Uttarakhand [Devbhoomi Vigyan Samiti (DEVISA)] Lifetime 				

membership					
Research Supervision (No. of Ph.D. Degree Awarded/Submitted/Registered) Awarded: 04 Submitted: nil Registered: 03					
Research Projects/ MoU undertaken					
S.No.	Title of Research Project	Funding agency	Budget Rs.	Duration/ Year	Status
1.	"Faunistic studies on the systematics and cytogenetics of the Drosophilids of Garhwal region, India".	University Grants Commission New Delhi	7,61,945=00	01.02.2010 to 31.07.2013; 3.6 years	Completed
Administrative Experience <ul style="list-style-type: none"> • Micro-Observer Assembly Election General Election 14.02.2022. Chaubattakhal/ Yamkeshwar • Assistant Centre Superintendent (Ph.D. Entrance Exam) Examination 2022 – Birla/Chauras Campus HNB Garhwal University, Srinagar Garhwal • Assistant Supervisor in UPSC - CDS Exam II 2021 dated 14.11.2021 HNBGU Chauras Campus. • Coordinator of Zoology information for IQAC team of SOLS HNBGU three campus 2021-22 • Member of Task force MoU with University of Haifa committee • Member of Constitution day and Citizens Duties celebration committee 2019-20 • Member of Social media committee, HNBGU • Member of NIRF committee 2019-2020 • Member of NPS committee, HNBGU • Sector Magistrate Garhwal 02 Lok Sabha General Election AC – 37 Pauri 18.02.2019 to 12.04. 2019. • Member of Re-scrutiny committee – 25.01.2019 re-scrutiny of B.Sc. Nursing / MBBS courses • Assistant Superintendent (AS Exam) Examination 2018 – Birla/Chauras Campus HNB Garhwal University, Srinagar Garhwal • Joint Secretary – HNB GU Teachers Welfare Society, Srinagar Garhwal May 2018-May 2020 • Micro-Observer Assembly Election General Election 15.02.2017.41- Kotdwar • Micro-Observer Assembly Election General Election 30.01.2012. 41-Kotdwar • Micro-Observer Lok Sabha General Election xx.xx.2014 Pauri Garhwal, UK • Micro-Observer in Lok Sabha General Election 12.05.2009. Pauri Garhwal, UK • NSS Program Officer: Participate in NSS as a NSS Program Officer 2010-13 Birla Campus HNB Garhwal University, Srinagar Garhwal, U.K. 					
Scientific Visits Abroad/ International Collaboration <ol style="list-style-type: none"> 1. Visited in <i>The Institute of Low Temperature Science, Hokkaido University, Sapporo, JAPAN</i> as a Visiting Associate Professor under the Institute program invited foreign guest researchers program in Japanese fiscal years 2009 from July 1st, 2009 to September 30th, 2009. 2. Visited in MNHN Museum for Modern Taxonomy programme 2013-2014, under Distributed European School of Taxonomy (DEST) course 'Zoological Nomenclature' training program held in September 22-26th, 2014 at the Muséum National d'Histoire Naturelle, Paris, France. 3. Visited in London School of Hygiene & Tropical Medicine (LSHTM) in ENTO '19 for attending International Symposium & Annual National Meeting organised by the Royal Entomological Society, London from August 20-22, 2019. 					
Collaborations International: <ul style="list-style-type: none"> • Prof. Masanori J. Toda, Hokkaido University Museum, Sapporo, JAPAN. 					

- Dr. Jian-Jun Gao, Laboratory for Conservation and Utilization of Bio-resource, Yunnan University, Kunming, CHINA.
- Dr. Toru KATOH, Division of Biodiversity, Department of Biological Sciences, Faculty of Science, Hokkaido University, North 10 West 8, Kitaku, Sapporo, Hokkaido 060-0810, JAPAN

Conference/Symposium/Workshop Attended during last five years (2015-2020)

International

1. Participate in the five days online conference & virtual 'Annual General Meeting' poster presented entitled "Journey of world Drosophilid's Taxonomy" (<https://youtu.be/yzJLDrsF4s8>) organised by the Royal Entomological Society, London in **ENTO 21** from August 23-27, 2021.
2. Participate in the online workshop on "**The Grand Challenges in Entomology**" organized by Royal Entomological Society, London held on 21 and 22 July 2021.
3. Participate in the three days International Symposium & Annual National Meeting 'Vectors of diseases' paper presented entitled "Diversity and Distribution Pattern of Drosophilids (Diptera: Drosophilidae) along an Altitudinal Transect in North India" organised by the Royal Entomological Society, London at **London School of Hygiene & Tropical Medicine (LSHTM)** in **ENTO '19** from August 20-22, 2019

National

1. Participate in the five days "**Indian Drosophila Research Meeting 2021**", presented an online poster (P56) on 15th December titled "Five Decades of Drosophilidae Taxonomy in leadership of Late Prof. (Dr.) J. P. Gupta, in India: A tribute", (<https://youtu.be/jgcVxhR9pU>) in the **InDRC '21** meeting organized by the Indian Institute of Science Education and Research Kolkata under the auspices of Indian Society for Drosophila Researchers on 13 – 17 Dec 2021.
4. Participate in the online workshop on "DNA Bar-Coding: A Challenge to Linnaeus Classification" organized by CytoGene Research & Development, Lucknow held on 22nd & 23rd of May 2021.
5. Participate in the webinar on "Principles & Practices of Animal Taxonomy: Classical & Molecular Approach" organized by Western Ghats Regional Centre, Zoological survey of India, Kozhikode – 673006, Kerala held on 24th August 2020.
6. One-week online training course on Bee Keeping and successful completion of E-Quiz organized by PG and Research Department of Zoology Khadir Mohideen College Adirampattinam-614701 Thanjavur District, Tamil Nadu from 19.05.2020 to 23.05.2020.
7. Participate in the two days national seminar on "Researches in Environment and Biosciences: Current Scenario and Future Perspectives" paper entitled "Preliminary Study of Drosophilids (Diptera, Drosophilidae) and their host plant preference in the subtropical and temperate forest of Central Himalaya" organized by D.A.V. (P.G.) College, Dehradun on June 22nd -23rd, 2018.
8. Participate in the two days national seminar on "Environment Health via-a-vis Human Welfare in Present scenario" paper entitled "Study on Invasive Fruit Pests *Drosophila suzukii indicus* & *Zaprionus indianus* and Possible Management Strategies in Garhwal Region, Uttarakhand", organized by D.A.V. (P.G.) College, Dehradun on April 18th -19th, 2016.

Conference/Symposium/Workshop Organized during last five years (2015-2020)

Chairman/Convener/Organizing Secretary, Title of event, place, date, year

Event Organized:

Actively organized a three days event on '**World DNA Day 25th April**' held in Department of Zoology & Biotechnology during 23-25 April 2017 at different School level of the University.

Publications during last five years (2015-2020)

Journals

1. Kumar kishor, Pashupati Nath and **R. S. Fartyal**. Population Ecology of the Dipteran Fauna of the Nanda Devi Biosphere Reserve, Western Himalaya, India. *Journal of Environment and Bio-*

2. Sonali Khali, Mohd Zahier Khan, Akariti Sharma, Pragya Topal, **Rajendra Singh Fartyal**, A study on food preference of some species of *Drosophila* (Diptera: Drosophilidae) in natural and artificial conditions. *International Journal of Entomology Research*, **Volume 5; Issue 4**; Page No. 07-10, ISSN: **2455-4758; Impact Factor: RJIF 5.24**, 2020
3. Toda Masanori J., Hans Banziger, Pradeep C. Sati, Rajendra S. Fartyal, Awit Suwito & Toru Katoh. Taxonomy and evolution of asymmetric male genitalia in the subgenus *Ashima* Chen (Diptera: Drosophilidae: *Phortica* Schiner), with descriptions of seven new species. *Zootaxa*, 4789 (1) : 1-54, <https://doi.org/10.11646/zootaxa.4789.1.1>; ISSN 1175-5326 (p), 1175-5334 (o) **IF 0.99, 2020**
4. Bhardwaj, Asha; Khan, Mohd Zahier; Fartyal, Prachi; Sarswat, Manisha and **Fartyal, Rajendra Singh**. Drosophilid diversity (Diptera: Drosophilidae) from Shimla District, Himachal Pradesh. *Indian Journal of Entomology*, **81(1)**:82-86, ISSN: 0367-8288(Print) ISSN: 0974-8172 (Online) (DoI No.: 10.5958/0974-8172.2019.00026.9) **2019**
5. Khan Mohd Zahier, Asha Bhardwaj, and **Rajendra Singh Fartyal**. Species Diversity and Ecology of Drosophilids (Diptera: Drosophilidae) of Poonch, Jammu and Kashmir, India, *Int. J. of. Life Sciences*, Volume 6(2): 529-535, ISSN:2320-7817(P); 2320-964X(o); UGC Approved Journal No.48951. **2018**
6. **Fartyal, R.S.**, Sarswat, M., Dewan, S., Fartyal, P. Morphometric analysis of wild-caught flies of *Drosophila* (Diptera: Drosophilidae) species: Altitudinal pattern of body size traits, wing morphology and sexual dimorphism. *Turkish Journal of Entomology*, **41(45)**: 367-382 (DOI: <http://dx.doi.org/10.16970/entotod.331102>), ISSN 1010-6960; E-ISSN 2536-491X, IF=0.388, **2018**.
7. **Fartyal, R.S.**, Sati, P.C., Pradhan, S., Kandpal, M.C., Toda, M.J., M., Chatterjee, R.N., Singh, B.K., Bhardwaj, Asha. A review of the genus *Lordiphosa* Basden (Diptera: Drosophilidae) in India, with descriptions of four new species from the Himalaya region (Diptera, Drosophilae). *Zookeys*, **688**: 49-79, ISSN: 1313-2989 (print); m1313-2970 (web: doi: 10.3897/zookeys.688.12590) publisher : Pensoft { <http://zookeys.pensoft.net>} **08.08.2017** **IF=1.079, 2017**.
8. Sarswat, M., Sati, P.C., Dewan, S., **Fartyal, R.S.** Implying quantitative ecology of Drosophilid fauna as a tool for biodiversity assessment—A case study along altitudinal transect in the Garhwal region of Central Himalaya. *Tropical ecology*, **57(4)**: 637-647. ISSN 0564-3295 (**IF: 1.43**). **2016**
9. Sarswat, M., Dewan, S. and **Fartyal, R.S.** Mitochondrial DNA sequence variation in Drosophilid species (Diptera: Drosophilidae) along altitudinal gradient from Central Himalayan region of India. *Journal of Genetics, (J. Genet.)* **95(2)**, 357-367. DOI:10.1007/s12041-016-0646-x ISSN: 0022-1333(P), eISSN: 0973-7731(**IF: 0.672**). **2016**.
10. Manisha Sarswat, **Rajendra Singh Fartyal**, Pradeep Chandra Sati, Mukul Kandpal and Birendra Kumar Singh Diversity and distribution pattern of drosophilids (Diptera, Drosophilidae) along an altitudinal transect in Uttarakhand and its implication in cytogenetics & molecular systematics study. *Journal of Entomological Research (j.ent. Res.)* **39(4)** : 311-322; DOI: 10.5958/0974-4576.2015.00038.9, ISSN:0378-9519(P); online ISSN: 0974-4576, **2015**
11. Pradhan, S. Sati, P.C., **Fartyal, R.S.**, Chatterjee, R.N., Sarswat, M., Kandpal, M.C. and Singh, B.K. *Drosophila curviceps* species-group (Diptera: Drosophilidae) from India, with description of a new species and redescription of a known species. “*Proceeding of Zoological Society Calcutta & Springer*. Vol. **68** (2) pp. 178-183; DOI 10.1007/s12595-014-0121-8; ISSN 0373-5893 (**2015**).

Proceedings

2. Pradhan, S., **Fartyal, R.S.** and Chatterjee, R.N. 2012. Diversity of Drosophilid species (Drosophilidae: Diptera) in Darjeeling, West Bengal. **National Conference on Environment and Biodiversity of India**. 29th & 30th Dec. 2012 University of Delhi, Delhi, Publ. in *NeBio I An international journal of environment and biodiversity* 3(5) Special Issue: EBI 2012, Volume III Issue 5: pp. 1-4. December 2012. (ISSN 2278-2281(Online Version) ISSN 0976-3597(Print Version) 30th June 2013).

3. Fartyal, R. S., Sati, P. C. and Sarswat, M. 2012. Population density and preliminary morphometric study of Drosophilids inhabiting Chamoli region of Uttarakhand. **National Conference on Environment and Biodiversity of India**. 29th & 30th Dec. 2012 University of Delhi, Delhi, Publ. in NeBIO I An international journal of environment and biodiversity 3(5) Special Issue: EBI 2012, Volume III Issue 5: pp. 20-22. December 2012. (ISSN 2278-2281(Online Version) ISSN 0976-3597(Print Version) 30th June 2013).

Books

Paper Published in Edited Book chapter:

1. Topal, Divita Garg and **Rajendra S. Fartyal**. March 28th 2021. Fruit Flies (*Drosophila spp.*) Collection, Handling, and Maintenance: Field to Laboratory. In Open Access Book: "**The Wonders of Diptera - Characteristics, Diversity, and Significance for the World's Ecosystems**," (book edited by Dr. Farzana Khan Perveen) online published by IntechOpen Limited, London. DOI: 10.5772/intechopen.97014 (ISBN 978-1-83968-883-6). Available from: <https://www.intechopen.com/chapters/75974>
2. Fartyal, R. S., Sarswat, M. 2017. "Study on Invasive Fruit Pests *Drosophila suzukii indicus* & *Zaprionus indianus* and Possible Management Strategies in Garhwal Region, Uttarakhand", In: *Environment Health : Human Welfare in Present Scenario*. (eds. S. Kumar, S. K. Solanki, J.V.S. Rauthan, N. Pemola Devi), pp 199-210. Published by ABS Books, New Delhi (ISBN 978-9386088-15-4).
3. Kumari Asha, Khan, Z. Fartyal, R. S. 2017. Biodiversity of Insect in the Sal Forest of Manduwala Region, Dehradun, Uttarakhand. In: *Environment Health : Human Welfare in Present Scenario*. (eds. S. Kumar, S. K. Solanki, J.V.S. Rauthan, N. Pemola Devi), pp 78-85. Published by ABS Books, Delhi (ISBN : 978-9386088-15-4).

Total Number of Research Publications:

33+2+3=38