

BRIEF PROFILE

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|  | Name | Dr Rakesh Matura |
| | Designation | Assistant Professor |
| | Area | Biotechnology |
| | Email | rakeshmatura831@gmail.com rakeshmatura@uttaranchaluniversity.ac.in |
| | Contact No. | 9458327592 |
| Professional Experience | <ul style="list-style-type: none"> • Research Associate at Central laboratory of Project Directorate on Foot and Mouth Disease (ICAR) Mukteswar, District Nainital from 5th April 2013 to 7th Sep 2015 (2 years and five months). • Research Associate at Wildlife Institute of India Dehradun in the DBT sponsored Project entitled “Population Genetic Structure of Nilgiri Tahr in Western Ghats, India: Conservation and Forensic Implications” from 22nd Sep 2015 to 24th Aug 2016 (11 Months). • Assistant Professor at Department of Zoology, Uttaranchal College of Science and technology Dehradun from 1 May 2018 to 31 October 2018 (6 Months). • Assistant Professor at Department of Biotechnology, Uttaranchal College of applied and Life Sciences, Uttaranchal University Dehradun from 22nd July 2019 to till date (Ongoing). | |
| Education Qualification | <ul style="list-style-type: none"> • PhD in Biotechnology from Kumaon University. • MSc in Biotechnology from H.N.B. Garhwal University. • BSc in Sciences (Zoology, Botany & Chemistry) from H.N.B. Garhwal University. | |
| Area of Research | <ul style="list-style-type: none"> • Microsatellite marker development • Population Genetics • Development of recombinant protein based ELISA | |
| Current Research, If any | | |
| Publications: <ul style="list-style-type: none"> • Articles in Journals (only Scopus/SCI) • Books edited/Chapter contributed/Books authored | <ul style="list-style-type: none"> • 10 Research Publication (SCI) | |

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| Conferences/Seminars/Workshops/ FDP/MDP attended | 8 |
| Award/Certificate/Prize received | <ul style="list-style-type: none"> • Qualified Uttarakhand state Eligibility test for Assistant Professor (USET) in Life Sciences in 2018. |
| Any extra-curricular activities | <ul style="list-style-type: none"> • Life Member of The Inland Fisheries Society of India, a registered body under the West Bengal Society act XXVI of 1961 (Reg No. S/9452 of 1968-1969). • Done Adventure course from Nehru Institute of Mountaineering (NIM) Uttarkashi |

Research Publications:

- Permanent genetic resources added to molecular ecology resources database 1 August 2011-30 September 2011 (2012) Molecular ecology resources primer development consortium A' Hara SW Amouroux P Argo EE Avand-Faghieh A Barat A *et al.* ***Molecular Ecology Resources*** 12: 185–189.
 - Development and characterization of microsatellite markers in Garra gotyla (Family: Cyprinidae, Pisces) (2012) **Matura R** Sharma S Barat A Pande V and Mahanta P ***Molecular Ecology Resources*** 12: 185–189.
 - Isolation and characterization of microsatellite DNA markers for Himalayan snow trout species, *Schizothorax richardsonii* (Cyprinidae) (2012) Barat A Sharma S C and **Matura R** ***Molecular Ecology Resources*** 12: 185–189.
- Permanent genetic resources added to molecular ecology resources database 1 June 2012-31 July 2012 (2012) Molecular ecology resources primer development consortium Barat A Bravo SP Chandra S Correa AS Giombini MI Guedes RNC Huailei MA Lal KK Liang LU **Matura R** *et al* ***Molecular Ecology Resources*** 12: 1196–1197.
 - Development of novel microsatellite markers for threatened species, *Schizothorax richardsonii* from the Trans-Himalaya, India. (2012) Chandra S, **Matura R** Barat A and Singh BK ***Molecular Ecology Resources*** 12: 1196–1197.

3. Isolation and characterization of novel microsatellite markers in endangered mahseer, *Tor putitora* (Hamilton 1822) (Family: Cyprinidae, Pisces) (2013) Sahoo PK Kumar R Sati J **Matura R** and Barat A **Conservation Genetic resources** 5 (3) 759-761.
4. Development and characterization of microsatellite markers in *Schizopyge niger* (Family: Cyprinidae, Pisces) from Kashmir Valley (Family: Cyprinidae, Pisces) (2013) Barat A **Matura R** Sati J Kumar R Bhat FA Goel C and Sahoo PK **Conservation Genetic resources** 5 (3) 831-833.
5. Comparative evaluation of non-structural protein-antibody detecting ELISAs for foot-and-mouth disease sero-surveillance under intensive vaccination (2014) Sharma GK Mohapatra JK Mahajan S **Matura R** and Subramaniam S **Journal of Virological Methods** 207:22-28.
6. Production and characterization of single-chain antibody (scFv) against 3ABC non structural protein in *Escherichia coli* for sero-diagnosis of Foot and Mouth Disease virus (2014) Sharma GK Mahajan S **Matura R** Subramaniam S Mohapatra JK Pattnaik B **Biologicals** 42(6) 339-345.
7. Quantitative single dilution liquid phase blocking ELISA for sero-monitoring of foot-and-mouth disease in India (2015) Sharma GK Mahajan S **Matura R** Subramaniam S Mohapatra JK and Pattnaik B **Biologicals**. 43(3) 158-164.
8. Construction and characterization of yeast two-hybrid cDNA library derived from LFBK cell line (2015) Mahajan S, Sharma GK, **Matura R**, Subramaniam S, Mohapatra JK and Pattnaik B **Biologicals** 43(3) 202-208.
9. Herd immunity against Foot-and-Mouth Disease under different vaccination practices in India (2016) Sharma GK Mahajan S **Matura R** Biswal JK Ranjan R Subramaniam S Misri J Bambal RG and Pattnaik B **Transboundary and Emerging diseases** 64(4):1133-1147.
10. "Palghat gap reveals presence of two diverged populations of Nilgiri tahr (*Nilgiritragus hylocrius*) in Western Ghats, India" (2017) Joshi, BD; Matura, R; Predit MA; Pandav, B; Parag; N and Goyal, S P **Mitochondrial DNA Part B** VOL. 3, NO. 1, 245–249
11. Diagnostic assays developed for the control of foot-and-mouth disease in India (2015) Sharma GK Mahajan S **Matura R** Subramaniam S Ranjan R Biswal J Rout M Mohapatra JK Dash BB Sanyal A Pattnaik B **World Journal of Virology** (3) 014.
12. Studies on Genetic Variability of Sucker Head, *Garra gotyla* (Fam: Cyprinidae) using Microsatellite Markers (2016) Matura R, Kumar R, Pande V and Barat A **International Journal of Current Microbiology and Applied Sciences** 5(8): 529-537.
13. DNA Bar-Coding of Indian Coldwater Fishes of Genus *Schizothorax* (Family: Cyprinidae) from Western Himalaya (2012) Sharma S Barat A Singh M Singh B K and **Matura R** **World Journal of Fish and Marine Sciences** 4(4):430-435.
14. Successful Cross-amplification of few microsatellite loci isolated from *Tor tambroides* for Indian Snow trout *Schizothorax richardsonii* (Gray 1832) (Family: Cyprinidae) (2011) Barat A Sharma S Singh B **Matura R** and Mahanta PC **Global journal of Molecular sciences** 6 (1): 22-25.

15. EST-derived Microsatellite markers in Indian snow trout (*Schizothorax Richardsonii*) (Gray 1832) (2010) Barat A Sharma S **Matura R** and Mahanta PC) *Journal of Inland Fisheries Society of India* 42(2): 21-24.

Conference attended:

- **“Second National Conference on Fisheries Biotechnology”** held at Central Institute of Fisheries Education Mumbai (November 2-3, 2012).

Seminar attended:

- **“Future Prospective of Fisheries in Uttaranchal”** Conducted jointly by Central Institute of Fisheries Education Mumbai and H.N.B. Garhwal University at Chauras Campus (October 28-29, 2005).

Workshop attended:

- **“Workshop on “Management of IPR in Biotechnology”** organized by Biotech Consortium India Limited and sponsored by Department of Biotechnology, Govt. of India at Chandigarh (March 19-20, 2009).

Faculty development programme (FDP) attended:

- **Online Faculty development programme on “Holistic Teaching techniques for University teachers”** organized by law college Dehradun Uttaranchal University from 20th July 2020 to 25th July 2020.

Training attended:

- **BCIL-BITP Training”** Sponsored by Department of Biotechnology (DBT), Govt. of India at **International Panaacea Limited (IPL)**, New Delhi in the project entitled “Quality Control of Biopesticides and Biofertilizers” from 17th Dec. 2007 to 17th June 2008 (Six Months).
- **“Next Generation Sequencing Data Analysis and Annotation”** organized by Bioinformatics centre, Indian Institute of Spices Research (ICAR) sponsored by Department of Biotechnology, Govt. of India at Kozhikode Kerala (March 12-16, 2013).
- **“Application of Molecular Techniques in Coldwater Fishes”** organized by Directorate of Coldwater Fisheries Research (ICAR) Bhimtal and sponsored by Indian council of Agriculture Research, New Delhi (July 14-23, 2009).
- **“Hands on Training Programme on Modern Techniques in Biotechnology” (Microbial Biotechnology)** organized by Department of Biotechnology Kumaun University, Bhimtal Campus, Bhimtal and sponsored by Uttarakhand State Biotechnology Programme, Ministry of Science & Technology & Biotechnology, Government of Uttarakhand (January 2-11, 2013).