

BIO-DATA

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3. Institution
Kumaun University, Nainital
4. Gender (M/F/T):Female
5. Ph.D thesis title- “Java based package for identification and analysis of simple sequence repeats”
Year of Award-2024

Publications

6. Gene Bank submissions

Bos indicus genotype BstYI-d MHC class II antigen (BoLa-DRB3) gene, exon 2 and partial cds
284 bp linear DNA

Accession: DQ834903.1 GI: 111380015

Bos indicus genotype BstYI-e MHC class II antigen (BoLa-DRB3) gene, exon 2 and partial cds
284 bp linear DNA

Accession: DQ834902.1 GI: 111380013

Bos indicus genotype BstYI-o MHC class II antigen (BoLa-DRB3) gene, exon 2 and partial cds
284 bp linear DNA

Accession: DQ834901.1 GI: 111380011

Bos indicus genotype RsaI-l MHC class II antigen (BoLa-DRB3) gene, exon 2 and partial cds
284 bp linear DNA

Accession: DQ834900.1 GI: 111380009

Bos indicus genotype RsaI-j MHC class II antigen (BoLa-DRB3) gene, exon 2 and partial cds
284 bp linear DNA

Accession: DQ834899.1 GI: 111380007

Bos indicus genotype RsaI-f MHC class II antigen (BoLa-DRB3) gene, exon 2 and partial cds
284 bp linear DNA

Accession: DQ834897.1 GI: 111380005

Bos indicus genotype RsaI-i MHC class II antigen (BoLa-DRB3) gene, exon 2 and partial cds
284 bp linear DNA

Accession: DQ834898.1 GI: 111380003

Bos indicus genotype RsaI-v MHC class II antigen (BoLa-DRB3) gene, exon 2 and partial cds
284 bp linear DNA

Accession: DQ834896.1 GI: 111380001

Bos indicus genotype RsaI-o MHC class II antigen (BoLa-DRB3) gene, exon 2 and partial cds
284 bp linear DNA

Accession: DQ834895.1 GI: 111379999

Bos indicus genotype RsaI-g MHC class II antigen (BoLa-DRB3) gene, exon 2 and partial cds
284 bp linear DNA

Accession: DQ834894.1 GI: 111379997

Bos indicus genotype HaeIII-f MHC class II antigen (BoLa-DRB3) gene, exon 2 and partial cds
284 bp linear DNA

Accession: DQ834893.1 GI: 111379995

Bos indicus genotype HaeIII-e MHC class II antigen (BoLa-DRB3) gene, exon 2 and partial cds
284 bp linear DNA

Accession: DQ834892.1 GI: 111379993

Bos indicus genotype HaeIII-d MHC class II antigen (BoLa-DRB3) gene, exon 2 and partial cds
284 bp linear DNA

Accession: DQ834891.1 GI: 111379991

Bos indicus genotype HaeIII-b MHC class II antigen (BoLa-DRB3) gene, exon 2 and partial cds
284 bp linear DNA

Accession: DQ834890.1 GI: 111379989

Bos indicus genotype HaeIII-a MHC class II antigen (BoLa-DRB3) gene, exon 2 and partial cds
284 bp linear DNA

Accession: DQ834889.1 GI: 111379987

7. Publications (*List of papers published*).

| S.No. | Author(s) | Title | Name of Journal | Volume | Page | Year |
|-------|--|--|---|--------|---------|------|
| 1 | Bhushan, Bharat & Patra, B. & Paswan, Chandan & Umang, & Kumar, Pushpendra & Dutt, Triveni & Das, Pranab & Sharma, Arjava & Ahlawat, Sonika. | DNA polymorphism of BoLA-DRB3.2 gene in Tharparkar cattle (<i>Bos indicus</i>) by PCR-RFLP | Journal of Applied Animal Research - J APPL ANIM RES | 32 | 187-190 | 2007 |
| 2 | Bhushan, Bharat & Singh, S. & Umang, & Agrawal, Nidhi & Dutt, Triveni & Kumar, Pushpendra & Sharma, Arjava & Ahlawat, Sonika. | Role of Land Holding Patterns for Adoption of Dairy Husbandry Practices in Rural Areas of Bareilly District in India | Journal of Applied Animal Research - J APPL ANIM RES. | 34 | 185-188 | 2008 |

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|---|--|--|--|-----------------|---------|------|
| 3 | Bhushan, Bharat & K., Singh & Umang, & N., Agrawal & T., Dutt & Kumar, Prabhat & Sharma, Arjava & S., Ahlawat. | Effect of education levels on adoption of management practices among livestock owners in urban areas of Bareilly district of Uttar Pradesh | Indian Journal Dairy of Sciences | 63 | 1-6 | 2010 |
| 4 | Umang, Joshi Rajesh. | Open Source Information and Communication Technology (ICT) Tools for Study of Snow and Glaciers | ENVIS Bulletin on Himalayan Ecology | 21 | 31-35 | 2013 |
| 5 | Umang | A Comprehensive study of IoT based Operating System | IJMRSETM, volume 2. Issue 3 March 2015 ISSN: 2395-7639 | | | |
| 6 | Umang | Extended Interface to Perl Script | IJRCCE, volume 2, Issue 2, February 2014 | ISSN: 2320-9801 | | |
| 7 | Umang, Surya Pratap Singh | Integrated standalone tool for identification of microsattellites | Int. J. Adv. Res. | 8(02) | 792-797 | 2020 |
| 8 | A study on prevailing Data Mining Techniques IJMRSETM, Vol 4 issue 4, April 2017 | Online 2395-7639 | | | | |

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|----|---|---------------------|--|--|--|--|
| 9 | Application of Machine learning with Big Data IJIRCCE, volume 6, issue 11, November 2018 | Online 2320-9801 | | | | |
| 10 | A survey on Digitization Efforts in Agricultural applications in India. International Journal of innovative research in Science Engineering and Technology. Vol.8 Issue 7, July 2019. Pages 7819-7823 | Online 2319-8753 | | | | |
| 11 | Umang. Lexicon Based Sentiment Analysis Algorithm for Web Reviews. International Journal of Advances in Engineering and Management (IJAEM) Volume 2, Issue 5, pp: 191-193 ISSN: 2395-5252. DOI: 10.35629/5 | ISSN 2395-5252 | | | | |

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| | 252-0205191193 | | | | | |
| 12 | Umang | A STUDY ON DIGITIZATION EFFORTS FOR PROMOTING OF INDIAN ARTS AND CULTURE | International journal of multidisciplinary education research. DOI: http://ijmer.in.doi./2021/10.09.103 ISSN:2277-7881; VOLUME:10, ISSUE:9(6), September: 2021 | | | |
| 13 | Umang | Data Centre: an accelerator for climate change in the decade ahead. Accepted to be published in Advances in bioresearch | | 12[1/2] | | 20-21 |
| 14 | Umang & Pandey D. | A Bibliometric analysis of application of big data tools in Electoral Campaigns by using VOSviewer. | Third concept | February | 46-50 | 2022 |
| 15 | Umang, | “Bibliometric Analysis of Research Aspects of Simple Sequence Repeats in Cultivars”. | <i>International Journal of Health Sciences</i> | vol. 6, no. S4, Aug. | 7922-33 | 2022, pp. |
| 16 | Umang | Mining and analysis of Microsatellites in Human Coronavirus genomes using inhouse built Java pipeline | Genomics and Inform.; | 20(3); | e34 | 2022 |
| 17 | Umang | Computational Approach for Mining Simple Sequence | Samriddhi: Journal of Physical science, engineering and Technology issue,.(print | Volume 14, (3), July-September | ISSN:2229-7111) | 2022 |

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| | | Repeats in Expressed Sequence Tags. | | | | |
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8. Books/Reports/Chapters/General articles etc.

| S. No | Title | Author's Name | Publisher | Year of Publication |
|-------|--|--------------------|--|---------------------|
| | Information Technology disaster recovery plan- Strategy and preparedness in India:Management and technology control of disasters | Umang | Editor-SN Chauhan Publisher- Bloomsbury India 9789382951421 | January 2013 |
| | An Android application for poultry farm Management :Infinitude frontiers of research in Mathematics, Statistics and Computer Science | Umang & Anil Saini | UGC-HRDC University of Calicut | August 2016 |

Workshop/ paper presentation

- Participated in National workshop on optimization theory and practice USERC, Dehradun KU,SSJ Campus ,Almora 15-19 November 2010
- Participated in seminar on MGNREGA: myths and realities ICSSR KU,SSJ Campus , Almora 03-04 December 2010
- Participated in “National workshop on Right to education” RTC Hawalbagh, Almora 26, December 2010
- National seminar on interface between Statistics, Mathematics and Allied Sciences. Department of Statistics Kumaun University, SSJ Campus Almora 20-22 November, 2010
- Participated in National Seminar

Emerging trends in State politics of Uttarakhand, Organized by Department of Political Science, DSB Campus, Almora

29 September, 2016

- Participated in National Seminar

Globalization, Market and consumer rights Issues and challenges, Organized by Department of Political Science, DSB Campus, Almora

11-12 November, 2016

- Participated in National workshop on Transcendental Meditation for personality development

to 18 April, 2017, Department of yoga, SSJ Campus, Almora

Resource person -

- Invited talk on “Technology integration in Education” delivered in online national conference on 17 June 2020. Organized by Bajaj college of Management and Technology, Gadarpur.

- Invited talk on “Technology use and Integration in NEP 2020” delivered in online National webinar on New Education Policy 2020, Philosophy, Commitment and Prospects on 30 September 2021.

- Conducted lectures on ICT awareness for state revenue police, Uttarakhand during October 2017 at extension training centre Hawalbagh , Almora

- Member of Professional body IAENG (Member No- 173635)

- Member of Uttarakhand School education council (nominated by Governor, Uttarakhand) 2013 –continue.

- Head of the Department of Information Technology, SSJ University Almora 2011 till 31 May 2022

- Head of the Department of Information Technology, Kumaun University Nainital 2011 till 31 May 2022

- Member of University website maintenance Committee, Kumaun University and SSJ University Almora.

- Member of Various Selection Committees for Teaching and Non teaching post at Kumaun University and SSJ University, Almora

- Chairman and member of UG and PG admission committee of the SSJ, Campus almora.

- Co convener of the workshop “Scientific Paper writing” sponsored by USERC, Dehradun at SSJ, University, Almora on 25 -03-2022.

- Co convener of the workshop “Artificial Intelligence for real world. Organized by Dept of CS. & Dept of IT SSJ, University, Almora on 28 -04-2022.

- Participated in more than 35 workshops and conferences and webinars/Seminars.

- Submitted 15 gene sequences to Genbank NCBI.

- More than 20 research articles Published in various National and International peer reviewed indexed Journals.

- Active member of Central Library, Kumaun University, Nainital.

- Attended one orientation and 03 refresher courses from HRDC of renowned universities.

- Completed 01 ARPIT refresher course conducted by Sawayam.

- In charge of University online learning Management center at SSJ, University, almora

- Coordinator of Pre PhD coursework 2022 at SSJ University, Almora

- In charge National Academic Depository, Kumaun University Nainital

- Assistant Director Digital Initiative Cell Kumaun University.

- Convenor International Conference on Big data and computational Intelligence organized at Kumaun University Nainital from 03-05 Nov. 2022

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