

UNIVERSITY CENTRE OF BIOINFORMATICS

SUB – DIC (Under BTISNet Programme)

T.M. Bhagalpur University, Bhagalpur – 812007

PUBLICATIONS

(i) Publications (National/ International) :

- 1) **Rakesh Ranjan & Saket Vinayak** (2019) : "Dynamics of Bioinformatics in the Artificial Designing of Drugs", Journal of Global Biosciences (Paper Code: JGB-2019076) ISSN 2320-1355, Volume 8, Number 4, pp. 6137 – 6145.
- 2) **Rakesh Ranjan, Saket Vinayak & Shanker Kr. Pandey** (2019): "APPLICATION OF BIOINFORMATIC TOOLS IN SUSTAINABLE AGRICULTURAL DEVELOPMENT", International Journal of Emerging Technologies and Innovative Research (www.jetir.org), ISSN:2349-5162, Vol.6, Issue 1, page no.733-738, January-2019, Available :<http://www.jetir.org/papers/JETIR1901A92.pdf>
- 3) **Saket Vinayak & Rakesh Ranjan** (2018): Significance of Bioinformatics in the conservation of Biodiversity and databases, International Journal of Current microbiology and applied sciences, Vol 7 (12) pp 3008-3012.
- 4) Kumar, B.N. and **Choudhary, Sunil, K.** (2018) Phytoplankton as index of water quality with reference to pollution of the Ganga River from Munger to Manihari, Bihar, India. JETIR, Volume 5, Issue-7, pp: 236-244.
- 5) Dev Das, B. And **Choudhary, Sunil, K.** (2018): Seasonal variations in physic-chemical properties with trace metals and microbial status in groundwater of Biratnagar, Nepal. JETIR, 5 (7), pp: 153-166.
- 6) Sinha, Annie and **Choudhary, S.K.** (2018): Seasonal variation in water quality of main channel and side channel of river Ganga at Bhagalpur. International Journal of Creative Research Thought (IJCRT), 6 (1), pp: 2044-2049.
- 7) Nachiket Kelkar, Subhasis Dey, Kadambari Deshpande, **Sunil Kumar Choudhary**, Sushant Dey & T. Morisaka (2018): Foraging and feeding ecology of Platanista: an integrative review. Mammal Review ISSN 0305 – 1838, The Mammal Society & John Wiley Sons Lts., pp: 1-15.
- 8) Annie Sinha & **Sunil Kumar Choudhary** (2018): *Seasonal variations in water quality of Main Channel and Side Channel of River Ganga at Bhagalpur*. International Journal of Creative Research Thoughts (IJCRT), Volume 6, Issue 1, pp: 2044-2049.
- 9) Bishnu Dev Das, Braj Nandan Kumar, Ranjan Kumar Mishra & **Sunil Kumar Choudhary** (2018): *Assessment of Water Quality Index for the surface water in Betna wetland of Morang district, Nepal*. JETIR, Volume 5, Issue 2, pp: 831-834.

- 10) Puja Kumari, Vijay Bihari Lal & **Sunil Kumar Choudhary (2018)**: *Mushrooms: A potential source for humankind*. BIONOTES, Volume 20 (1), pp: 34–35.
- 11) Kumari Gouri & **Sunil K. Choudhary (2017)**: *Fluoride contamination in groundwater sources of Bhagalpur Municipal Corporation Area, Bhagalpur, Bihar*. IOSR Journal of Environmental Science, Toxicology & Food Technology, Volume 11, Issue 1, Ver. III, pp: 45-49.
- 12) **A.K. Roy**, J.K. Singh and P. Pankaj (2016); "Ameliorative effect of curcumin on profenofos induced oxisative damage of real tissue in mice" International Journal of Pharmaceutical Sciences and Research, IJPSR (2016), Vol. 7, Issue 8: 3550 – 3556.
- 13) J.K. Singh, **R. Ranjan** & P. Pankaj (2016): "Isolation and Screening of Water Microbes for Decolourisation of Textile Dye Waste", Current World Environment, Vol.11(1), 296–300 <http://dx.doi.org/10.12944/CWE.11.1.36>
- 14) **A.K. Roy, R. Ranjan & A. Dixit** (2014): Application of Bioinformatics in Management, Analysis and Conservation of Biodiversity Data, International Journal on Biodiversity Watch 3, pp:131 – 138 ISSN 2438-4497.
- 15) Brajnandan Kumar, **Saket Vinayak** & B.K. Das (2014) "Evaluation of Full-text Serach Queries in XML Databases" Bihar Research Journal (An International Referred Journal), Vol. 11, pp. 122 – 127 ISSN 0975 – 4288.
- 16) S.K. Panday, A. Rani, Rashmi Singh, **Saket Vinayak & R. Ranjan** (2014) "Application of Data Mining in Bioinformatics" Bihar Research Journal (An International Referred Journal), Vol. 11, pp. 139 – 143 ISSN 0975 – 4288.
- 17) **A.K. Roy**, Amod Kumar & others (2013): Deterioration in nutritive value of wheat grains infested with aflatoxigenic strains of *Aspergillus flavus*. Indian Phytopath. Vol 66(3) pp:311-12.
- 18) **A.K. Roy**, A. Rani & R.Singh (2013): Diversity of Rhizosphere Fungi Associated with Common Varieties of Litchi (*Litchi Chinensis*) Plants of North Bihar, Asian Jr. of Microbial. Biotech. Env.Sc. Vol.15(1), pp77-83 ISSN – 0972-3005.
- 19) Jiv Kant Singh & **A.K. Roy** (2013): Role of Curcumin and Cumin on Hematological Parameters of Profenofos Exposed Mice- *Mus Musculus*. International Journal of Current Pharmaceutical Review and Research, 4(4), 120-127.
- 20) **Rakesh Ranjan & R.P. Upadhayaya** (2013): Biological Data Management in modern research International Journal Mendel Vol. 30 (1–4) Page 13–15 ISSN 0970-9649.
- 21) Browning control: A pre-treatment for Micropropagation of Litchi, Biospectra: Vol6(1), March 2011, pp 151-156 with the collaboration of P.G. Dept. of Biotechnology, TMBU, Bhagalpur.

- 22) **Upadhyay R.P.** Wild Germplasm Improvement And Conservation Strategies In *Reinwardtia indica* Dum (Linaceae), *Indian J. Environ & Ecoplan.* 15(3): 725-728 (2009).
- 23) **Upadhyay R.P.** Cytotoxicity of silk processing wastes in Bhagalpur, *Indian J. Environ & Ecoplan.* 15 (3): 729-731 (2009).
- 24) **Upadhyay R.P.**, Population dynamics of *Commelina benghalensis* populations in view of genomic DNA. *Indian J. Environ & Ecoplan.* 15(1-2): pp 445-448(2008).
- 25) U. Kumar, **R. Ranjan & R.P. Upadhyaya**, "Dynamics of population differences in *Commelina benghalensis* Linn." *Indian J. Environ. & Ecoplan.* 15 (3): 721-724 (2008).
- 26) **Upadhyay R.P.** Cytotoxicity of silk processing wastes in Bhagalpur, *Indian J. Environ & Ecoplan.* 15 (3): 729-731 (2008).
- 27) **R.P. Upadhyaya** & J.V.K. Choudhary "Population Dynamics of *Commelina Benghalensis* Populations in view of Genomic DNA" *Indian J. Environ & Ecoplan.* 15 (1-2): 445-448 (2008).
- 28) **Upadhyay R.P.** & **Singh Vandana** "Biomarkers in Cancer" communicated in *Journal Bioinformtika* 2(2) pp 18-21.2008.
- 29) **Upadhyay R.P.** Wild Germplasm Improvement And Conservation Strategies In *Reinwardtia indica* Dum (Linaceae), *Indian J. Environ & Ecoplan.* 15(3): 725-728 (2008).
- 30) **Upadhyay R.P.** , Genome size diversification under ecological stress – 2007 *Ecologia* 2 (IV) pp 35 – 41.

(ii) Book/ Book Chapters written/ edited

- 1) Study Material (2019): "Horizon of Bioinformatics in Environmental Management and Biodiversity Conservation", published by University Centre of Bioinformatics, TMBU.
- 2) Study Material (2018): "Current Trends in Bioinformatics Teaching & Research", published by University Centre of Bioinformatics, TMBU.
- 3) Workshop Study Material (2018): "Bioinformatics in Life Science", published by University Centre of Bioinformatics, TMBU.
- 4) A Compendium of Fungi of Medicinal Plants of India, Today and Tomorrow's Printers and Publishers, New Delhi (2017) ISBN 81-7019-553-1 (India) ISBN 1-55528-408-6 (USA) by Prof. A.K. Roy, Dr. S.K. Pandey & Dr. H.K. Chourasia.

- 5) Conservation, Cultivation, Diseases and Therapeutic importance of Medicinal and Aromatic Plants (Edited Vol.), Today & Tomorrow Printer & Publisher, New Delhi (2016) ISBN 81-7019-554-X (India) ISBN 1-55528-409-4 (USA) by Prof. A.K. Roy & Dr. H.K. Chourasia.
- 6) Souvenir cum Abstract on Prospect of Biotechnology and bioinformatics tools and their Application, Published by University Centre of Bioinformatics, T.M. Bhagalpur University, Bhagalpur – 2015.
- 7) Database, Data-Mining & Retrieval of Informations, Published by University Centre Bioinformatics, T.M. Bhagalpur University, Bhagalpur-2009.
- 8) Emerging Fields in Bioinformatics, Published by University centre of Bioinformatics, T.M. Bhagalpur University, Bhagalpur; released by Hon'ble Chancellor Bihar – 2007.

(iii) Papers presented at National/ International Conference

- 1) Saket Vinayak & Rakesh Ranjan (2018): Role of Bioinformatics Tools in Sustainable Agricultural Development. National Conference on Biotechnological Initiatives for Crop Improvement (BICI-2018) organized by BAU, Sabour during Dec. 08-09, 2018, pp: 250–251.
- 2) Sunil K. Choudhary (2018): Climatic and Anthropogenic Pressures on Conservation of River Biodiversity in Vikramshila Gangetic Dolphin Sanctuary, Bihar, International Workshop on Biodiversity and Climate Change BDCC 2018 organized by IIT, Kharagpur during 24th – 27th Feb.' 2018.
- 3) Rakesh Ranjan & Neetu Kumari (2018) : Bioinformatics in Life Science : A Study Material in National Workshop on Bioinformatics in Life Science organized by University Centre of Bioinformatics, TMBU during 19-20 Jan.' 2018 Page : 1–23.
- 4) A.K. Roy & Rakesh Ranjan (2016): "Application of Bioinformatics tool for Designing Primers to study the genic correlation betweenA. Flavus Strains" during 6th International Conference on Plant, Pathogens and People organized by Indian Phytopathological Society, Indian Agriculture Reserach Institute, New Delhi on Feb. 23-27, 2016.
- 5) A.K. Roy, R. Ranjan & A. Dixit (2015): Application of Bioinformatics in Management, Analysis and Conservation of Biodiversity Data, Biodiversity Watch 3, pp:131 – 138.
- 6) Santosh Kumar & Rakesh Ranjan (2015): Mathematics & Engineering (Design of modified retaining structures) in National Seminar on Application of Mathematics in different discipline organized by University Department of Mathematics, T.M. Bhagalpur University, Bhagalpur 19th & 20th Dec.' 2015 Page – 49.

- 7) Rakesh Ranjan, S.K. Azad & S. Vinayak (2015): Cloud Computing in the field of Bioinformatics in National Conference on Recent trends in Mathematical and Computational Sciences organized by University Department of Statistic & Computer Application, T.M. Bhagalpur University, Bhagalpur in conjunction with 13th National Conference of Indian Society of Information Theory and Applications, 3rd & 4th Jan.' 2015 Page – 59.
- 8) N.L. Mandal, S. Roy and A.K Roy (2015): Molecular Variations of *Aspergillus flavus* stains isolated from Wheat varieties in DBT & UGC sponsored National Seminar cum Workshop on “Prospect of Biotechnology and Bioinformatics tools and their Application” scheduled from 19th – 21st Jan.' 2015 Page - 9.
- 9) Amod Kumar and A.K. Roy (2015): Characteristics of Molecular Markers in Relation to Biodeterioration in Food Value (Wheat Grains) in DBT & UGC sponsored National Seminar cum Workshop on “Prospect of Biotechnology and Bioinformatics tools and their Application” scheduled from 19th – 21st Jan.' 2015 Page – 25
- 10) Rakesh Ranjan, Ravi Shankar Mishra and others (2015): Biotechnology and the Developing world in DBT & UGC sponsored National Seminar cum Workshop on “Prospect of Biotechnology and Bioinformatics tools and their Application” scheduled from 19th – 21st Jan.' 2015 Page – 29.
- 11) Rakesh Ranjan, D.K. Sharma & Others (2015): Applications of Molecular Biology and Genomics to Genetic Enhancement of Crop Tolerance to Abiotic Stress in DBT & UGC sponsored National Seminar cum Workshop on “Prospect of Biotechnology and Bioinformatics tools and their Application” scheduled from 19th – 21st Jan.' 2015 Page – 29.
- 12) S.K. Pandey, Rakesh Ranjan & others (2015): Bioinformatics and its Application in Plant Biology in DBT & UGC sponsored National Seminar cum Workshop on “Prospect of Biotechnology and Bioinformatics tools and their Application” scheduled from 19th – 21st Jan.' 2015 Page – 39.
- 13) Rakesh Ranjan, Saket Vinayak and others (2015): Application of Data Mining in Bioinformatics in DBT & UGC sponsored National Seminar cum Workshop on “Prospect of Biotechnology and Bioinformatics tools and their Application” scheduled from 19th – 21st Jan.' 2015 Page – 40.
- 14) Roy A.K., Dixit A. and Ranjan R. (2015): Application of Bioinformatics in Management, Analysis and Conservation of biodiversity Data in DBT & UGC sponsored National Seminar cum Workshop on “Prospect of Biotechnology and Bioinformatics tools and their Application” scheduled from 19th – 21st Jan.' 2015 Page – 54.
- 15) Kailash Pandit, Rakesh ranjan and Saket Vinayak (2015): Biomathematics vs. Bioinformatics in DBT & UGC sponsored National

Seminar cum Workshop on "Prospect of Biotechnology and Bioinformatics tools and their Application" scheduled from 19th – 21st Jan.' 2015 Page – 61.

- 16) R. Ranjan, S. Vinayak & S.K. Azad (2015): Cloud Computing in the field of Bioinformatics in 13th National Conference of Indian Society of Information Theory and Applications (ISITA) on "Recent Trends in Mathematical and Computational Science" during 3rd – 4th Jan.' 2015.
- 17) Archana Dixit, Rakesh Ranjan and Saket Vinayak (2015): Study Material on "Bioinformatics tools & their Application" in DBT & UGC sponsored National Seminar cum Workshop on "Prospect of Biotechnology and Bioinformatics tools and their Application" scheduled from 19th – 21st Jan.' 2015 Page: 72 – 97.
- 18) A.K. Roy, R. Ranjan & others (2014): Application of Bioinformatics Tools and Techniques in Zoological Research in National Seminar on values of Information in Zoology organized by University Department of Zoology, T.M. Bhagalpur University, Bhagalpur 24 – 25' Feb.' 2014 Page – 54.
- 19) R.P.Upadhyaya, Rakesh Ranjan & Braj Kishor (2010): "Environmental Remediation through Bio-computational method: A 21st Century approaches" in XIIth Annual Conference of Association of Geographers, Bihar & Jharkhand (AGBJ) and National Seminar organized by University Deptt. of Geography, TMBU, Bhagalpur 11-12 Dec.' 2010 pp.96
- 20) R.P.Upadhyaya & Rakesh Ranjan (2010): "Environmental Restoration through Bio-computational Practices" in UGC Sponsored National Conference organized by Deptt. of Chemistry, G.B. College, Naugachhia, TMBU, Bhagalpur 19-21 Feb.' 2010 pp.07
- 21) Health hazard of Contaminated Drinking water in Diara of Bhagalpur region Published in a seminar organized by G.B. College Naugachhia Sponsored by CSIR, BCST, NAWARD, and co-sponsored Indian Chemical Society of Kolkata from 21'-22'Sep'2010 at pp36.
- 22) Upadhyay R.P. & Singh Vandana "Bioinformatics: a pursuit of Environmental Management" International Conference on "Recent Advances in Contemporary Biology, Environmental Pollution & Sustainable Development" was organized in S.K.M. University, Dumka page-70, S.K.University, Dumka September 28 - 30, 2007.
