

DEPARTMENTAL PROFILE: ZOOLOGY

PUBLICATIONS



Prof. Soumen Bhattacharjee M.Sc. (CU), Ph.D. (JU)

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Mailing Address Cell and Molecular Biology Laboratory, Department of Zoology, University of North Bengal, P.O. NBU, Dist- Darjeeling, West Bengal, PIN 734013, India.

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Subject specialization: Cell and Molecular Biology

Areas of Research Interest: Molecular Virology, Genetic Diversity, Cell Biology

No. of Ph.D. students: (a) Supervised: 05 (b) Ongoing: 05

No. of M.Phil. students: (a) Supervised: NA (b) Ongoing: NA.

No. of Publications: (a) Journal(s) : 55 (b) Book(s) : 02 (c) Book chapter(s): 03

Achievement & Awards:

- NET (CSIR JRF)
- GATE
- National Scholarship (CU)

Professional Experiences:

- UG teaching (2000 to 2007)
- Reader, Department of Zoology, University of North Bengal, Raja Rammohunpur, District Darjeeling – 734 013 (2009 to 2012).
- Associate Professor, Department of Zoology, University of North Bengal, Raja Rammohunpur, District Darjeeling – 734 013 (2012 to 2015).
- Professor, Department of Zoology, University of North Bengal, Raja Rammohunpur, District Darjeeling – 734 013 (2015 onwards).

Administrative Experiences:

- Head, Department of Zoology (October, 2017-September, 2019; September, 2021 onwards)
- Member, University Online Admission Committee
- Member, Institutional Human Ethical Committee
- Member of the Institutional Animal Ethical Committee
- Member of the Student's Grievance Redressal Cell
- Member of the Equivalence Committee

Major Research Projects undertaken: CSIR, UGC, DBT-WB, NBU Research Projects, Departmental Programs (DST-FIST, UGC-SAP)

List of Publications:

Published Books & Book Chapters:

1. Mukhopadhyay, T. & **Bhattacharjee, S.** 2017. North Bengal: a Glimpse of its Biological and Socio-economical Wealth. In *Problems and Prospects of Development in North East India*, eds. Niranjan Bhattacharjee and Dipendra Kumar Sarmah. Synergy Books India, New Delhi, pp 39-62. (ISBN-13: 9789382059653). [Date of Publication- November, 2017].
2. Mukhopadhyay, T. & Bhattacharjee, S. 2016. Genetic Diversity: Its Importance and Measurements. In *Conserving Biological Diversity: A Multiscaled Approach*, eds. Aabid Hussain Mir and Nazir Ahmad Bhat. Research India Publication, New Delhi, pp 251-295. (ISBN: 978-93-86138-00-2).
3. Mukhopadhyay, T. & Bhattacharjee, S. (2015). DNA Fingerprinting in Conservational Research on Ichthyofauna. In *Animal Diversity, Natural History and Conservation*, eds. V. K. Gupta and A. K. Verma, Vol. 5 (Chapter 13): 177-211. Daya Publishing House, New Delhi (Indian ISBN: 9789351246169; International ISBN: 9789351306610).
4. Bhattacharjee, S. (2011): Biology and Evolutionary Interrelationships of Polyomaviruses. Lambert Academic Publishing, GmbH and Co. KG, Dudweiler Landstraße 99, 66123 Saarbrücken, Germany (ISBN: 978-3-8454-4424-6).
5. Bhattacharya & Sinha (2006). A Text Book of Immunology (Basic, Cellular & Molecular Approach). Academic Publishers, Kolkata, India (ISBN: 81-89781-09-X).

Published Research Articles:

1. Paul, S., Modak, D., Chattaraj, S., Nandi, D., Sarkar, A., Roy, J., Chaudhuri, T. K. & **Bhattacharjee, S.** 2021. *Aloe vera* gel homogenate shows anti-inflammatory activity through lysosomal membrane stabilization and down-regulation of TNF- α and Cox-2 gene expressions in inflammatory arthritic animals. *Future Journal of Pharmaceutical Sciences* 7 (12): 1-8. [eISSN: 2314-7245 (Online)] [Doi: <https://doi.org/10.1186/s43094-020-00163-6>]
2. Paul, A., Mukhopadhyay, T. & **Bhattacharjee, S.** 2021. Genetic diversity and population structure of *Barilius barna* (Hamilton, 1822) in the sub-

Himalayan Dooars region of West Bengal, India through Mitochondrial Cytochrome Oxidase I Sequence analyses. *International Journal of Aquatic Biology* 9 (1): 1-10. [ISSN: 2383-0956 (Print)/ISSN: 2322-5270 (Online)]. [Doi: <https://doi.org/10.22034/ijab.v9i1.901>]

3. Modak, D., Paul, S., Sarkar, S., Thakur, S. & **Bhattacharjee, S.** 2021. Validating potent anti-inflammatory and anti-rheumatoid properties of *Drynaria quercifolia* rhizome methanolic extract through in vitro, in vivo, in silico and GC-MS-based profiling. *BMC Complementary Medicine and Therapies* 21: 89. [eISSN: 2662-7671 (Online)] [Doi: <https://doi.org/10.1186/s12906-021-03265-7>]
4. Ghosh, J., Chakraborty, S., Dey, S., Mukherjee, D., Sarkar, B., Mallick, S., Dutta, A., Dutta, T., **Bhattacharya, S.**, Ghorai, N., Pal, C. 2021. Potential anti-leishmanial activity of a semi-purified fraction isolated from the leaves of *Parthenium hysterophorus*. *Acta Parasitologica*. [ISSN: 1230-2821 (Print); 1896-1851(Electronic)] [Doi: <https://doi.org/10.1007/s11686-021-00416-1>]
5. Roy, S. K. and **Bhattacharjee, S.** 2021. Dengue Virus: Epidemiology, Biology and Disease Aetiology. *Canadian Journal of Microbiology* 67 (10): 687-702. (ISSN: Print: 0008-4166, Online: 1480-3275) [Doi: <https://doi.org/10.1139/cjm-2020-0572>]
6. Dutta, T. & **Bhattacharjee, S.** 2021. Frequency of Glutathione S-Transferase M1, T1 and P1 genotypes and their combinations in northern West Bengal, India: implications for disease association. *Gene Reports*: 25: 101313. [ISSN: 2452-0144 (Online/Print)]. [Doi: <https://doi.org/10.1016/j.genrep.2021.101313>]
7. Lala, M., Modak, D., Paul, S., Sarkar, I., Dutta, A., Kumar, A., **Bhattacharjee, S.** & Sen, A. 2020. Potent bioactive methanolic extract of wild orange (*Citrus macroptera* Mont.) shows antioxidative, anti-inflammatory, and antimicrobial properties in *in vitro*, *in vivo*, and *in silico* studies. *Bulletin of the National Research Centre* 48: 81. [SpringerOpen] [ISSN: 2522-8307] Doi: doi.org/10.1186/s42269-020-00329-5 [Available Online- 29th May, 2020]
8. Paul, S., Modak, D., Dutta, S., Chaudhuri, T. K. & **Bhattacharjee, S.** 2019. Evaluation of the effectiveness of *Acmella uliginosa* (Sw.) Cass. flower methanolic extract in pain amelioration and memory impairment in the experimental rat models: search for an alternative remedy over opioid painkillers. *Pharmacognosy Magazine* 15 (64) (Suppl. 2): S335-45. [Wolters Kluwer-Medknow Publications and Media Pvt. Ltd., Mumbai, India] [ISSN: 0973-1296 (Print)/eISSN: 0976-4062 (Online)] Doi: 10.4103/pm.pm_71_19 [Available Online 23rd Aug, 2019]
9. Das, K. Paul, S., Modak, D., Mahato, B., **Bhattacharjee, S.** and Roy, M. N.

2019. Synthesis, Characterization, and Comparison of Host–Guest Complexes of β -CD with Vitamins Explored through their Biological Activities. *ACS Omega* 4 (4): 7151-7175. [American Chemical Society, USA] [ISSN: 2470-1343 (Online)]. [Doi: 10.1021/acsomega.8b03574]
[Available Online Publication- 19th April, 2019]

10. Roy, N., Das, K., Dey Bhowmick, U., **Bhattacharjee, S.** and Roy, M. N. 2018. Biological activity and variation of toxicity of Probenecid in diverse solvent systems probed by physicochemical investigation. *Indian Journal of Advances in Chemical Science* 6 (4): 193-199. [KROS Publications, Andhra Pradesh, India] [ISSN: 2320-0898 (Print)/ISSN: 2320-0928 (Online)]. [Doi: 10.22607/IJACS.2018.604004]
[Available Online- 21st February, 2019]
11. Dutta, T., Nayak, C. & **Bhattacharjee, S.** 2019. Acetylcholinesterase, Butyrylcholinesterase and Glutathione S-Transferase enzyme activities and their correlation with genotypic variations based on GST M1 and GST T1 loci in long term-exposed tea garden workers of sub-Himalayan West Bengal. *Toxicology and Environmental Health Sciences*: 11 (1): 63-72. [The Korean Society of Environmental Risk Assessment and Health Science and Springer Nature, Switzerland] [ISSN: 2005-9752 (Print)/ISSN: 2233-7784 (Online)]. [Doi: 10.1007/s13530-019-0389-1]
[Available Online- 10th April, 2019]
12. Mukhopadhyay, T. & **Bhattacharjee, S.** 2019. Genetic diversity and population structure analyses of threatened *Amblyceps mangois* from sub-Himalayan West Bengal, India through RAPD and ISSR fingerprinting. *Croatian Journal of Fisheries* 77: 33-50. [University of Zagreb, Department of Fisheries, Beekeeping, Game Management and Special Zoology, Zagreb, Croatia] [ISSN: 1330-061X (Print)/ISSN: 1848-0586 (Online)]. [Doi: 10.2478/cjf-2019-0004]
[Available Online- 8th February, 2019]
13. Paul, S., Chakraborty, A. K., Modak, D., Sen, A. & **Bhattacharjee, S.** 2018. *In vivo* and *in silico* approaches to investigate the toxicological and analgesic properties of unprocessed *Aloe vera* gel in experimental rat models. *Archives of Biological Sciences* 70 (4): 727-735. [Serbian Biological Society, Belgrade, Serbia] [ISSN: 1821-4339 (Print)/eISSN: 1821-4339 (Online)]
Doi: <https://doi.org/10.2298/ABS180524036P>
[Available Online- 9th Aug, 2018]
14. Sultana, S. S., Ghosh, J., Chakraborty, S., Mukherjee, D., Dey, S., Mallick, S., Dutta, A., Paloi, S., Khatua, S., Dutta, T., **Bhattacharya, S.**, Acharya, K., Ghorai, N., Pal, C. 2018. Selective *in vitro* inhibition of *Leishmania donovani* by a semi-purified fraction of wild mushroom *Grifola frondosa*. *Experimental Parasitology* 192: 73-84. [Elsevier Inc.] (ISSN: 0014-4894)
[Available Online- 21st July, 2018]

15. Dey Bhowmick, U. & **Bhattacharjee, S.** 2018. Bacteriological, clinical and virulence aspects of *Aeromonas*-associated diseases in human. ***Polish Journal of Microbiology*** 67 (2): 137-149. [Polish Society of Microbiologists, Warsaw, Poland] [ISSN: 2544-4646 (Online); ISSN: 1733-1331 (Print)] Doi: 10.21307/pjm-2018-020
[Available Online- 28th May, 2018]
16. Mukhopadhyay, T. & **Bhattacharjee, S.** 2018. Analyses of genetic diversity of *Badis badis* (Hamilton-Buchanan 1822) from three riverine systems in sub-Himalayan biodiversity hotspot of West Bengal, India using RAPD and ISSR fingerprinting. ***Genetika*** 50 (3): 771-790. [Serbian Genetics Society, Belgrade, Serbia] [ISSN: 0534-0012 (Print)/ISSN: 1820-6069 (Online)].
[Doi: <https://doi.org/10.2298/GENSR1803771M>]
[Available Online- 26th December, 2018]
17. Singh, S., **Bhattacharjee, S.** & Bahadur, M. 2018. Cyp1A specific ethoxyresorufin-*o*-deethylase (EROD) activity in *Danio rerio* experimentally exposed to sublethal dose of Chlorpyrifos. ***North Bengal University Journal of Animal Sciences*** 12: 37-43. [Department of Zoology, University of North Bengal, West Bengal, INDIA] (ISSN: 0975-1424)
[Available Online-31st December, 2018]
18. Modak, D., Paul, S. & **Bhattacharjee, S.** 2017. Anti-inflammatory activity of *Acmella uliginosa* (Sw.) Cass. flower methanolic extract on membrane stabilization and protein denaturation: an *in vitro* evaluation. ***North Bengal University Journal of Animal Sciences*** 11: 61-69. [Department of Zoology, University of North Bengal, West Bengal, INDIA] (ISSN: 0975-1424)
[Available Online - 28th December, 2017]
19. Dey Bhowmick, U. & **Bhattacharjee, S.** 2017. Status of antibiotic resistance in the aeromonads of North Bengal with a special reference to change in resistance pattern through altitudinal gradient. ***North Bengal University Journal of Animal Sciences*** 11: 51-59. [Department of Zoology, University of North Bengal, West Bengal, INDIA] (ISSN: 0975-1424)
[Available Online - 28th December, 2017]
20. Singh, S., Bahadur, M., **Bhattacharjee, S.** & Pal, J. 2017. Acute toxicity of Chlorpyrifos to Zebrafish, *Danio rerio* (Cyprinidae). ***North Bengal University Journal of Animal Sciences*** 11: 45-49. [Department of Zoology, University of North Bengal, West Bengal, INDIA] (ISSN: 0975-1424)
[Available Online - 27th December, 2017]
21. Singh, S., **Bhattacharjee, S.**, Pal, J. & Bahadur, M. 2017. Assessment of pesticide residues in water and sediments of Changa, Manza and Tepu Rivers flowing through the Terai region of West Bengal, India. ***Pollution Research*** 36 (3): 531-540. [EM International, Pune, INDIA] [ISSN: 0257-8050 (Online)] [Available Online - December, 2017]
22. Paul, S., Dutta, T., Chaudhuri, T. K. & **Bhattacharjee, S.** 2017. Curative and protective properties of crude gel of *Aloe vera* from sub-Himalayan West Bengal in chronic and acute inflammatory rat models. ***Indian Journal of Traditional Knowledge*** 16(1): 121-127. [NISCAIR, CSIR, INDIA] [ISSN: 0975-1068 (Online); 0972-5938 (Print)] [Available Online - 11th

Novemeber, 2016]

23. Mukhopadhyay, T. & **Bhattacharjee, S.** 2016. Genetic Characterization of *Barilius barna* (Hamilton, 1822) in the Teesta river of sub-Himalayan West Bengal, India, through RAPD and ISSR fingerprinting. *Proceedings of the Zoological Society*. [Springer-Verlag, Germany & Zoological Society, Kolkata, India] [ISSN: 0373-5893 (Print)/ISSN: 0974-6919 (Online)]. [doi: 10.1007/s12595-016-0191-x] [*Available Online - 4th November, 2016*]
24. **Bhattacharjee, S** & Chattaraj, S. 2017. Entry, infection, replication and egress of human Polyomaviruses: an update. *Canadian Journal of Microbiology* 63 (3): 193-211. [Canadian Science Publishing (NRC Research Press) and Canadian Society of Microbiologists, Ottawa, Canada] (ISSN: Print: 0008-4166, Online: 1480-3275). [doi: 10.1139/cjm-2016-0519] [*Available Online -29th October, 2016*]
25. Chakraborty, S., Chaudhuri, A., Dutta, T., Ghosh, J., Saha, S. K., Biswas, S., Chakraborty, S., **Bhattacharjee, S.**, Pal, C., Chakrabarti, I. Chowdhury, H., and Ghorai, N. 2016. Isolation of a major host plant-terpenoid and its probable impact on the degenerative growth of female Indian lac insect, *Kerria lacca* (Kerr.). *Journal of Entomology and Zoology Studies* 4(4): 1351-1358. [Journal of Entomology and Zoology Studies, New Delhi, Bhutan, Ukraine, Syria, Egypt, Palestine, Pakistan] (e-ISSN: 2320-7078/p-ISSN: 2349-6800). [*Available Online: August, 2016*]
26. Chakraborty, S., Dutta, T., Rai, K., Ghosh, J., Saha, S. K., Biswas, S., **Bhattacharjee, S.**, Pal, C., Chowdhury, H., Chakrabarti, I. and Ghorai, N. 2016. Preliminary investigation on terpenoids present in the bark of major host plants, and lac-encrustations made by the Indian lac insect *Kerria lacca* (Kerr.) with respect to host plant selections. *Journal of Entomology and Zoology Studies* 4(4): 591-594. [Journal of Entomology and Zoology Studies, New Delhi, Bhutan, Ukraine, Syria, Egypt, Palestine, Pakistan] (e-ISSN: 2320-7078/p-ISSN: 2349-6800) [*Available Online: 7th July, 2016*]
27. Paul, S., Sarkar, S., Dutta, T. & **Bhattacharjee, S.** 2016. Assessment of anti-inflammatory and anti-arthritis properties of *Acmella uliginosa* (Sw.) Cass. based on experiments in arthritic rat models and qualitative GC/MS analyses. *Journal of Intercultural Ethnopharmacology* 5(3): 257-262. [SAGEYA Publishing Company, Ankara, Turkey] (ISSN: 2146-8397) [*Available Online: 30th May, 2016*]
28. Mukhopadhyay, T. & **Bhattacharjee, S.** 2016. Locus specific genetic diversity and population differentiation analysis of *Badis badis* (Hamilton-Buchanan, 1822) in sub-Himalayan West Bengal, India. *International Journal of Aquaculture* 6 (4): 1-9. [BioPublisher & Sophia Publishing Group Inc., British Columbia, Canada] [ISSN: 1927-5773 (Online)]. [http://doi: 10.5376/ija.2016.06.0004] [*Available online: 26th April, 2016*]
29. Paul, S., Dutta, T. & **Bhattacharjee, S.** 2015. Identification of phytocomponents from hexane soluble fraction of wild *Aloe vera* (L.) Burm. F. gel collected from University of North Bengal campus through GC-MS analysis. *North Bengal University Journal of Animal Sciences* 9: 9-13. [Department of Zoology, University of North Bengal, West Bengal, INDIA] (ISSN: 0975-1424). [*Available online- 30th December, 2015*]

30. **Bhattacharjee, S.** 2015. Recent advances in Host-Virus Interactomics during entry and infection. *Viral Adaptation and Treatment* 7: 57-66. [Dove Medical Press, UK] [ISSN: 1179-1624 (Online)]. [Doi: <http://dx.doi.org/10.2147/VAAT.S60265>] [Available online: 1st December, 2015]
31. Guha, P., Das, A., Dutta, S., Bhattacharjee, S., & Chaudhuri, T. K. 2015. Study of Genetic Diversity of KIR and TLR in the Rabhas, an endogamous primitive tribe of India. *Human Immunology* 76 (11): 789-794. [Elsevier & American Society for Histocompatibility and Immunogenetics (ASHI), NJ 08054] (ISSN: 0198-8859). [<http://dx.doi.org/10.1016/j.humimm.2015.09.024>]. (Available online: 30th September, 2015)
32. Singh, S., Bhutia, D., Sarkar, S., Rai, B. K., Pal, J., **Bhattacharjee, S.** & Bahadur, M. 2015. Analyses of pesticide residues in water, sediment and fish tissue from river Deomoni flowing through the tea gardens of Terai region of West Bengal, India. *International Journal of Fisheries and Aquatic Studies* 3 (2): 17-23. [ISSN: Print: 2394-0506, Online: 2347-5129] (Available online: 19th September, 2015)
33. Mukhopadhyay, T. & **Bhattacharjee, S.** 2015. Population and hierarchical genetic structure of *Badis badis* (Hamilton-Buchanan, 1822) in sub-Himalayan Terai region of West Bengal, India. *International Journal of Aquaculture* 5 (27): 1-10. [BioPublisher & Sophia Publishing Group Inc., Canada] [ISSN: 1927-5773 (Online)] [[http://doi: 10.5376/ija.2015.05.0027](http://doi:10.5376/ija.2015.05.0027)] (Available online: 9th September, 2015)
34. Paul, S., Das, A. P. & **Bhattacharjee, S.** 2015. Rheumatoid arthritis: molecular basis and cures from nature. *International Journal of Pharmacy and Pharmaceutical Sciences* 7 (7): 30-39. [Innovare Academic Sciences, MP, India] (ISSN: 0975-1491). (Available online: 1st July, 2015)
35. Chattaraj, S., Nirmal Kumar Bera, Chandan Dutta & **Bhattacharjee, S.** 2015. Quantification of human Polyomavirus JC virus load in urine and blood samples of healthy tribal populations of North-Eastern part of West Bengal, India. *Indian Journal of Medical Microbiology* 33 (4): 491-495. [Medknow Publications and Media Pvt. Ltd./Wolters Kluwer and Indian Association of Medical Microbiologists (IAMM), India] (ISSN: Print: 0255-0857, Online: 1998-3646) (Available Online: 16th October, 2015)
36. Guha, P., Paul, S., Das, A., Halder, B., **Bhattacharjee, S.**, Chaudhuri, T. K. 2014. Analyses of human and rat clinical parameters in Rheumatoid Arthritis raise the possibility of use of crude *Aloe vera* gel in disease amelioration. *Immunome Research* 10: 081. [Omics Publishing Group, USA & International Immunomics Society] (ISSN: 1745-7580) [doi: [10.4172/17457580.1000081](http://dx.doi.org/10.4172/17457580.1000081)]. (Available Online: 22nd November, 2014)
37. Mukhopadhyay, T. & **Bhattacharjee, S.** 2014. Study of the genetic diversity of the ornamental fish *Badis badis* (Hamilton-Buchanan, 1822) in the Terai region of sub-Himalayan West Bengal, India. *International Journal of Biodiversity* Volume 2014, Article ID 791364, 10 pages. [Hindawi Publishing Corporation, USA] [ISSN: 2314-4149 (Print)/2314-4157(Online)/DOI: <http://dx.doi.org/10.1155/2014/791364>] (Available Online: 6th November, 2014)
38. Paul, S., Dutta, S., Chaudhuri, T. K. & **Bhattacharjee, S.** 2014. Anti-inflammatory and protective properties of *Aloe vera* leaf crude gel in

carrageenan induced acute inflammatory rat models. *International Journal of Pharmacy and Pharmaceutical Sciences* 6(9): 368-371. [Innovare Academic Sciences, MP, India] (ISSN: 0975-1491)

(Available Online: 1st October, 2014)

39. Guha, P., **Bhattacharjee, S.** & Chaudhuri, T. K. 2014. Diversity of Killer Cell Immunoglobulin-like Receptor (KIR) genes in the Bengali population of Northern West Bengal, India. *Scandinavian Journal of Immunology*. [John Wiley & Sons Ltd] (Online ISSN: 1365-3083) (Available Online: 9th September, 2014)
40. Chattaraj, S. & **Bhattacharjee, S.** 2014. Molecular analysis of JC polyomavirus genotypes circulating among Tribal populations of North-Eastern West Bengal, India. *Polish Journal of Microbiology* 63(2): 191-201. [Polish Society of Microbiologists, Warsaw, Poland] (ISSN: 1733-1331)
41. Mukhopadhyay, T. and **Bhattacharjee, S.** 2014. Standardization of Genomic DNA isolation from minute quantities of fish scales and fins amenable to RAPD-PCR. *Proceedings of the Zoological Society* 67(1): 28-32. [Springer-Verlag, Germany & Zoological Society, Kolkata, India] [ISSN: 0373-5893 (Print) 0974-6919 (Online)] [DOI 10.1007/s12595-013-0065-4]. (Available Online: 21st April, 2013)
42. Mukhopadhyay, T. & **Bhattacharjee, S.** 2013. Assessment of intra-population diversity of the threatened ornamental fish *Badis badis* (Hamilton-Buchanan, 1822) from the Terai region of West Bengal. *North Bengal University Journal of Animal Sciences* 7: 13-23. (ISSN: 0975-1424)
43. Guha, P., Srivastava, S. K., Das, A., **Bhattacharjee, S.**, Haldar, B. & Chaudhuri, T. K. 2013. Comparative Analyses of the ABO, KIR and HLA loci among the Rajbanshis of North Bengal Region, India. *Annals of Pharma Research* 1: 18-24. [ISSN: 2347-1956] (Available Online: 23rd August, 2013)
44. Guha, P., Srivastava, S. K., **Bhattacharjee, S.** & Chaudhuri, T. K. 2013. Human Migration, Diversity and Disease Association: A Convergent Role of Established and Emerging DNA Markers. *Frontiers in Genetics* 4: 155. [ISSN: 1664-8021 (Online)] [DOI:10.3389/fgene.2013.00155] (Available Online: 9th August, 2013)
45. **Bhattacharjee, S.** 2013. Role of Genomic and Proteomic tools in the Study of Host-Virus interactions and Virus Evolution. *VirusDisease* (Formerly Indian Journal of Virology) 24(3): 306–311. [Springer-Verlag, Germany & Indian Virological Society, India] [ISSN: 0970-2822 (Print)/ISSN: 0974-0120 (Online)] [DOI: 10.1007/s13337-013-0150-3]. (Available Online: 8th August, 2013)
46. Guha, P., **Bhattacharjee, S.**, Nayak, C. R., & Chaudhuri, T. K. 2013. Study of the KIR gene profiles and analysis of the phylogenetic relationships of Rajbanshi population of West Bengal, India. *Human Immunology* 74 (5): 673-680. [Elsevier & American Society for Histocompatibility and Immunogenetics (ASHI), NJ 08054] (ISSN: 0198-8859) [http://dx.doi.org/10.1016/j.humimm.2013.01.007]. (Available Online: 12th April, 2013)
47. Bahadur, M., Debnath, G., **Bhattacharjee, S.** & Rudra, M. 2011. A study on genetic variation among Oraon, Munda and Chik Baraik tribes of North Bengal. *Tribal World* 1: 82-87. [Orion Press International] (ISBN 81-8809412-9)

48. Pal, A. & **Bhattacharjee, S.** 2011. Isolation and characterization of Aeromonads from North Bengal, India. *North Bengal University Journal of Animal Sciences* 5: 47-56. [Department of Zoology, University of North Bengal, West Bengal, INDIA] (ISSN: 0975-1424)
49. **Bhattacharjee, S.** 2010. Evolutionary interrelationships among polyomaviruses based on nucleotide and amino acid variations. *Indian Journal of Biotechnology* 9: 252-264. [NISCAIR, CSIR, INDIA] (ISSN: 0972-5849)
50. **Bhattacharya, S.** 2010. Genomics and proteomics as clue to virus adaptation towards host. *Bioinformline* 3 (2-3): 5-6. [Official Newsletter of NBU Bioinformatics Facility of DBT, India, University of North Bengal, West Bengal, INDIA] (ISSN: 0974-9403)
51. Debnath, G., Rudra, M., **Bhattacharjee, S.** & Bahadur, M. 2010. Serum protein polymorphism among three tribal populations of West Bengal, India. *North Bengal University Journal of Animal Sciences* 4: 53-58. [Department of Zoology, University of North Bengal, West Bengal, INDIA] (ISSN: 0975-1424)
52. **Bhattacharjee, S.** 2009. Phylogenetic relationships among Polyomaviruses. *North Bengal University Journal of Animal Sciences* 3: 66-80. [Department of Zoology, University of North Bengal, West Bengal, INDIA] (ISSN: 0975-1424)
53. Chakraborty, T. & **Bhattacharjee, S.** 2008. The Ichthyofaunal diversity in the freshwater rivers of South Dinajpur district of West Bengal, India. *Journal of the Bombay Natural History Society*. 105 (3): 292-298. [Bombay Natural History Society, Mumbai, INDIA] (ISSN: 0006-6982)
54. **Bhattacharjee, S.** 2008. Human Polyomaviruses: Clinical, Evolutionary and Anthropological Implications. *North Bengal University Journal of Animal Sciences* 2 (1): 1-13. [Department of Zoology, University of North Bengal, West Bengal, INDIA]
55. **Bhattacharjee, S.** 2007. Why does HIV manifest into AIDS in humans. *Everyman's Science XLI* (6): 401-406. [Indian Science Congress Association, Kolkata, INDIA] (ISSN 0531-495X)
56. **Bhattacharjee, S.** & Chakraborty, T. K. 2004. High reactivation of BK virus variants in Asian Indians with renal disorders and during pregnancy. *Virus Genes* 28: 157-168. [Springer, Netherlands] (ISSN: 0920-8569)