

CURRICULUM VITAE OF SHARMIN MUSA

Date of Birth : 3rd February 1974

Mailing Address:

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Educational Qualifications:

1. Ph.D in Animal Biology, University of Manchester, Manchester, UK.
2. MSc in Zoology with specialization in Parasitology, 1st class, University of Dhaka, Bangladesh.
3. BSc (Honours) in Zoology, 1st class, University of Dhaka, Bangladesh.

Research Experiences:

My PhD. Project was on male parental care in bi-parental insect burying beetles *Nicrophorus vespilloides*. Burying beetles are fascinating because in this species both male and female parent take part in parental care. My aim was to find out why male care has evolved in this species.

As part of my MSc degree I performed a research project on PKDL (post kala-azar dermal leishmaniasis). I looked at prevalence of PKDL in two kala-azar endemic thanas of Bangladesh. PKDL occurs mainly in kala-azar patients. In the project environmental factors, socio-economic conditions and also treatment history of kala-azar were recorded in PKDL positive patients.

At present I am supervising Ms. research projects and supervising Ph.D students of Parasitology which includes both human and animal parasites.

Previous Projects:

- 1. Successfully completed a project as Associate Investigator titled "Recent advances in technologies and their application for diagnosis, treatment, prevention and control of vector borne diseases (kala-azar, filariasis and malaria) in endemic areas of Bangladesh' funded by Ministry of Science and Technology under Special Allocation Programme in the Financial Year 2010-2011.**
- 2. Successfully completed a project as Principal Investigator titled 'Occurrence of Communicable diseases and risk factors for Communicable Diseases among the Female Inhabitants of Lower Socioeconomic Groups' funded by University Grants Commission in the Financial Year 2014-2015.**
- 3. Ongoing : 'Epidemiology of malaria among the Rohingya refugees in Cox's Bazar of Bangladesh' with joint collaboration with MORU (Mahidol -Oxford Research Unit). University of Oxford.**
- 4. Successfully completed a project as Principal Investigator titled "Knowledge, attitude and practice (KAP) assessment of intestinal parasitic and intestinal tract infections (UTI) among women and school going children in slum areas of Dhaka" UGC funded university project..**
- 5. Ongoing "Parasitic infestation in *Polynemus paradiseus* (Linnaeus, 1758) and *Xenentodon cancila* (Hamilton, 1822) through morphometric and molecular techniques" funded by Biotechnology Research Centre , University of Dhaka.**
- 6. Presentations and seminars: Presented a number of talks in national and international conferences.**
- 7. Invited Talk: ICSTD-2021 organized by BCSIR , topic "Zoonotically important parasites of livestock animals in Bangladesh. "**

Extra-curricular activities:

Social Secretary- Bangladesh Students Society, Manchester, 2001-2002.

President- Bangladesh Students Society, Manchester, 2003-2004.

Public Relation Officer and Life member, Zoological Society of Bangladesh, 2008-2009.

Joint Secretary, Zoological Society of Bangladesh. 2019-21.

Part time house tutor- Begum Fazilatunnesa Mujib Hall, University of Dhaka, January 2010 to January 2011.

Membership of Professional bodies:

Life member, Bangladesh Society for Parasitologists.

Life member, Zoological Society of Bangladesh.

Member, Centre for Advanced Studies and Research in Biological Science

Governing Body Member, Jaynul Shikder Women's Medical College

Joint Secretary, Zoological Society of Bangladesh, Year 2019-2020

Awards:

1. Dean award from Faculty of Biological Sciences, University of Dhaka, Bangladesh in 1994 for academic excellence.

2. Bangabandhu Fellowship from Ministry of Science and Technology, Government of the People's Republic of Bangladesh in 2000 for studying in UK.

3. Overseas scholarship scheme from University of Manchester in 2000,2001,2002 for higher study.

Work Experience:

Lecturer, Department of Zoology at University of Dhaka, Bangladesh from September 1999 to September 2000.

Undergraduate student demonstrator- School of Biological sciences, University of Manchester; Autumn 2001, Autumn 2002, Autumn 2003.

Lecturer, Department of Zoology at University of Dhaka, Bangladesh from July 2005 to January 2008.

Assistant Professor, Department of Zoology at University of Dhaka, Bangladesh from January 2008 to December 2011.

Associate Professor, Department of Zoology at University of Dhaka, Bangladesh from December 2011 to July 2015

Professor, Department of Zoology at University of Dhaka, Bangladesh from July 2015 to date.

2nd Grade Professor, Department of Zoology at University of Dhaka, Bangladesh from July 2019 to date.

Computer Skill: Microsoft Office, Internet, Systat.

Research Publications:

1. Hamida Khanum and **Sharmin Musa**. 1999. Relationship between Hygienic Environment and Prevalence of PKDL in Two Kala-azar Endemic Areas of Bangladesh. Bangladesh J. Life Sci., 11(1&2), 151-157.

2. Hamida Khnaum, **Sharmin Musa**. Zakia Ferdousi and Nargis Arefin. 2000. Observation on the Prevalence of Geohelminth Ova in Green Leaves/Vegetables from Different Markets of Dhaka City.

Bangladesh Journal of Nutrition. 13, 69-73

3. Hamida Khanum and **Sharmin Musa**. 2002. Impact of Educational and Socio-Economic aspects on the Prevalence of Post Kala-azar Dermal Leishmaniasis (PKDL) in Two Endemic Areas of Bangladesh. Dhaka Univ. J. Biol. Sci. 11(1):25-30.
4. Per. T. Smiseth, **Sharmin Musa**, and Allen J. Moore. 2005. Negotiation between parents: does the timing of mate loss affect female compensation in *Nicrophorus vespilloides*? Behaviour. 143, 293-301.
5. **Sharmin Musa**. 2009. Effect of Access to Carcass during Parental Care on Resource Holding Potential in Burying Beetles *Nicrophorus vespilloides*. (Herbst, 1783) (Coleoptera: Silphidae). Bangladesh J. Zool. 37(1), 157-164.
6. **Sharmin Musa** and Hamida Khanum. 2009. Post Kala-azar Dermal Leishmaniasis (PKDL) in two Kala-azar Endemic areas of Bangladesh. Bangladesh J. Zool. 37(2): 213-220.
7. Hamida Khanum, Mohammad Nazmul Huda and **Sharmin Musa**. 2009. Prevalence of Leishmaniasis in Trishal thana, Mymensingh, Bangladesh. Bangladesh J. Life Sci. 21(2), 151-155
8. **Sharmin Musa**. 2010. Effect of Male Parental Care on Reproductive Success of Burying Beetles *Nicrophorus vespilloides*. Dhaka Univ. J. Biol. Sci. 19(2), 165-170.
9. Hamida Khanum, Jainal Abedin, Rimi Farhana and **Sharmin Musa**. 2011. Recent advances and technologies for diagnosis, treatment,

prevention and control of malaria and kala-azar in endemic areas of Bangladesh. 22nd National Congress of Parasitology, Oct. 30-Nov.01, 2011. Dept of Zoology, University of Kalyani, W.B. 71-75.

10. **Sharmin Musa** . 2012. The importance of pre-hatching paternal care on offspring fitness in burying beetles *Nicrophorus vespilloides* Herbst. Dhaka Univ. J. Biol. Sci.21(1). 47-53.

11.**Sharmin Musa**, Sharmin Dil Afroz and Hamida Khanum. 2012. Occurrence of Ecto- and endo parasites in pigeon (*Columba livia* Linn.). Univ.J.Zool.Rajshahi.Univ.30:73-75.

12. Hamida Khanum, Shah Sufi Nur Nabi Sarker, Mohammed Moazzem Hossain, **Sharmin Musa** and Rimi Farhana. 2012. Occurrence of hydrocele in Thakurgaon, an epidemic prone area of Bangladesh. Journal of Natural History (India). 8(1): 7-15.

13. **Sharmin Musa**, Tania Rahman and Hamida Khanum. 2012. Prevalence and Intensity of Parasites in Domestic Ducks. Dhaka Univ. J. Biol. Sci. 21(2):97-99.

14.Mt. Tahmina Karim, **Sharmin Musa** and Hamida Khanum. 2012. Pediculosis among the children of different social status in Dhaka. Bangladesh J. Zool. 40(2): 175-181.

15. Hamida Khanum, Robin Nath, **Sharmin Musa**, Rimi Farhana Zaman and Moazzem Hossain. 2013. Lymphatic Filariasis in Northern Part of Bangladesh. Univ. J. Zool. Rajshahi. Univ. 32: 59-65.
16. Mt. Tahmina Karim, **Sharmin Musa**, Dinesh Mondol and Hamida Khanum. 2014. Relationship between head lice (*Pediculus humanus capitis*) infestation and nutritional status of children. Dhaka. Univ. J. Biol. Sci. 23(2):119-125.
17. Hamida Khanum, Tania Yeasmin, Rimi Farhana Zaman and **Sharmin Musa**. 2013. Infestation of arthropod parasites in cattle and sheep. Journal of Natural History. 9(2): 5-12.
18. Hamida Khanum, Tania Yeasmin, Rimi Farhana Zaman and **Sharmin Musa**. 2013. Infestation of helminth parasites in different age groups, sex and seasons. Journal of Natural History. 9(2): 13-21.
19. Hamida Khanum, Md. Rasel Alam and **Sharmin Musa**. 2014. Leishmaniasis in Trishal and Fulbaria Thana, Mymensingh: In relation to blood groups and consequences of clinical disorders. Journal of Natural History. 10(1): 19-31.
20. Tamna Akter, **Sharmin Musa** and Hamida Khanum. 2015. Occurrence of protozoa and soil transmitted helminth (STH) in human feces used as manure in agriculture. Dhaka University Journal of Biological sciences. 24(2): 161-168.

21. Hamida Khanum, Sultan uz Zaman, Sabina Yesmin, **Sharmin Musa**, Hasina Banu and Tuhinur Arju. 2015. Visceral leishmaniasis in Non-Endemic Districts of Bangladesh: Knowledge gap , Attitude and Practice of Inhabitants and Professionals for Treatment, Prevention and Control. Bangladesh Journal of Zoology. 43(2):189-199.
22. Tahmina Karim, **Sharmin Musa**, Hamida Khanum and Dinesh Mondal. 2015. Occurrence of *Pediculus humanus capitis* in Relation to their Personal Hygiene and Social Behaviour among the Children in Dhaka City. Bangladesh Journal of Zoology. 43(2):327-332.
23. Hamida Khanum, **Sharmin Musa** and Rezwana Ahmed. 2018. Association of dogs (*Canis lupus familiaris*, Linnaeus, 1753) and risk perception of zoonotic infection for humans. National Journal of Life Sciences. 15(1): 27-32.
24. **Sharmin Musa**, Hamida Khanum and Tania Ahmed. 2018. Prevalence of ecto-parasites in cattles (*BOS INDICUS*) of Jessore , Bangladesh. Bangladesh Journal of Zoology. 46(2):137-145.
25. Mt. Tahmina Karim, Hamida Khanum and **Sharmin Musa**. 2018. Occurrence of enteric parasites and their risk factors among the female inhabitants of lower socioeconomic groups in Dhaka city. Asian Journal of Medical and Biological Research. 4(4):343-350.
26. Pryanka Barua, **Sharmin Musa**, Rezwana Ahmed and Hamida Khanum. 2020. Commonly found zoonotic parasitic species in Dogs and Cats from a prominent pet market of Dhaka, Bangladesh. Annual Research and Review in Biology. 35(1): 17-23.
27. Pryanka Barua, **Sharmin Musa**, Rezwana Ahmed and Hamida Khanum. 2020. Occurrence of zoonotic parasites in cats (*Felis catus*) at

an urban pet market. Bangladesh Journal of Veterinary and Animal Sciences.8(1): 1-10.

28. Mandira Mukutmoni, **Sharmin Musa** and Asmaul Husna. 2020. Soil transmitted helminth infections among Slum dwelling women in Dhaka , Bangladesh. .Annual research and Review in Biology. 35(8);95-101.

29.Tahmina Karim, Hamida Khanum and **Sharmin Musa**. 2020. Communicable Diseases Among The Female Inhabitants Of Lower Socio-Economic Groups in Dhaka City. Bangladesh.J.Zool. 48(2): 105-117.

