



Europass Curriculum vitae



Personal information

Full Name

Dr. Sharmin Suraiya

Present Address

Lecturer
Department of Fisheries and Marine Bioscience
Bangabandhu Sheikh Mujibur Rahman Science and Technology University,
Gopalganj-8100, Bangladesh.

Permanent Address

C/O, Dr. Monjurul Haq
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sharmin_411@yahoo.com

Nationality

Bangladeshi (By birth)

Date of birth

September 04, 1983

Gender

Female

Occupational field

To be an expert in the field of Fisheries & Marine Bioscience

Dates

20014-2018

Title of qualification awarded

Ph.D. in Biotechnology CGPA: 4.42 (In the scale of 4.50)

Research Lab

Microbiology & Genetic Engineering Lab
Dept. of Biotechnology, College of Fisheries Science
Pukyong National university, Busan, Republic of Korea

Principal subjects/Occupational skills covered

Thesis title: "**Fermentation of brown seaweeds by *Monascus* spp. for pigments and lovastatin production and characterization of biofunctional properties with fermented products**". Studied subjects were Eukaryotic Genetic Engineering, Bio-industrial Engineering, Advance Marine Biotechnology, Microbial Physiology, Antibiotics, Bioprocess Engineering & Design, Fermentation Engineering, Food Fermentation Process, Marine Biological Chemistry, Protein Structure, Animal Cell Culture, Doctoral Seminar-1, 2, Doctoral Dissertation Research.

Name and type of organisation providing education and research

Pukyong National University, Busan, 48513, Republic of Korea

Level in national or international

ISCED 8

classification	
Dates	2007-2008
Title of qualification awarded	Master of Science (M.S.) in Biotechnology CGPA: 3.921 (In the scale of 4.00)
Principal subjects/Occupational skills covered	Thesis title: " Study on Morphological and Allozymic variation of three river populations of bata, <i>Labeo bata</i> (Hamilton) in Bangladesh ". Studied subjects were Recombinant DNA Technology, Genetic Engineering and Biotechnology, Molecular Marker and Diagnosis, Molecular Techniques, Enzymology and Enzyme Technology, Biopharming and Bioengineering, Molecular Cell Biology, Molecular Genetics, Gene Expression and Regulation, Biometry and Bioinformatics, Fish Population and Conservation Genetics, Experimental Design and Genetic Data Analysis.
Name and type of organisation providing education and training	Bangladesh Agricultural University, Mymensingh-2202, Bangladesh
Level in national or international classification	ISCED 7
Dates	2002-2006
Title of qualification awarded	Bachelor of Science in Fisheries (Honours) CGPA: 3.768 (In the scale of 4.00)
Principal subjects/Occupational skills covered	Aquaculture, Aquatic ecology, Oceanography and Marine Biology, Limnology, Fish Biodiversity, Biochemistry, Statistics, Marine Food Chemistry, Fish Population Dynamics, Fish Pathology, Fish Physiology, Fish Nutrition, Fish stock assessment, Fish Toxicology, Fish Pathology, Fisheries Microbiology, Fisheries Management, Genetics and Fish Breeding, Prevention and Control of Fish Diseases, Fish Physiology, Fish processing, Quality Control of Fishery Products, and many others
Name and type of organisation providing education and training	Bangladesh Agricultural University, Mymensingh-2202, Bangladesh
Level in national or international classification	ISCED 6
Dates	1999-2001
Title of qualification awarded	Higher Secondary School Certificate (H.S.C) Result: First Division (Passing Year 2001)
Name and type of organisation providing education	Siddheswari Girls' College, New Bailey Road, Dhaka, Bangladesh
Group	Science
Dates	1993-1999
Title of qualification awarded	Secondary School Certificate (S.S.C) Result: First Division (Passing Year 1999)
Name and type of organisation providing education	Motijheel Govt. Girls' High School, Motijheel, Dhaka, Bangladesh
Group	Science

Work experience

Dates	October 2010 to October 2012
Occupation or position held	Lecturer & Head
Main activities and responsibilities	Teaching, Research and others are administrative and extension works Department of Fisheries & Agricultural Technology
Name and address of organisation	BCMC College Dhaka Road, East Barandipara Jessore-7400, Bangladesh.

Dates	January, 2007 to June, 2008
Occupation or position held	Research fellow
Main activities and responsibilities	Experience in endangered fish biodiversity study, molecular research to know the genetic variations in existing population of a defined species, conduction of cross breeding among different sources of population for their genetic improvement, development of larval rearing both in laboratory and wild condition when working as a Research Fellow in the BAURES (Bangladesh Agricultural University Research System) funded project entitled on “ Study of growth performance and genetic variation of thai and local koi (Anabantidae) ”.
Name and address of employer	Late Dr. Md. Mukhlesur Rahman Khan , Professor, Department of Fisheries Biology and Genetics, Bangladesh Agricultural University, Mymensingh, Bangladesh.

Scholarship/Fellowship

Fellowship/Scholarship Received

1. Korean Government Scholarship Program Scholar (KGSP- 2014), under the National Institute of International Education, Republic of Korea (Language institute–Inha University, 01.09.2014 to 31.08.2015 & Research University–Pukyong National University, 01.09.2015 to 31.08.2018): Total 4 years.
2. National Science & Information and Communication Technology (NSICT) Fellowship (2007-2008), under the Ministry of Science & Information and Communication Technology, Bangladesh duration from 01.07.2007 to 31.12.2007.

Personal skills and Competences

Mother tongue
Other language
English

Bengali

Medium of Instruction in B.Sc. (Honours) and MS level is in English.

International English Language Testing System (IELTS): Overall Band Score 6.0

Completed Courses on English Spoken from S@ifur’s Training Centre, Dhaka, Bangladesh.
Duration: 3 months.

Korean

Test of Proficiency in Korean: TOPIK Level 4 (out of Level 6)

Computer skills and Additional informations

1. Competent as a computer user of Microsoft office (MS Word, MS Excel, Power Point), Adobe Photoshop, internet browsing and experienced in data analysis by using IBM SPSS Statistics 20, Design Expert 7.0.
2. Experienced in Primer Design using Primer 3 Software; Bio Edit Gene Sequence Alignment; Q-PCR; Cell culture (fungal, bacterial, human & animal); Seaweed fermentation; Bioactive compound & Biofunction analysis of samples (HPLC, LC, GC, XRD, TGA, biochemical); Protein structure modeling using Swiss-model and Chimera; NMR Data analysis by Jeol Delta software.
3. Imaging by using Scanning Electron Microscope; DNA, Protein & TLC Band analysis by Image J.

Publications

1. **Suraiya S.**, Choi, Y. B., Park, H. D., Jang, W. J., Lee H.-H. & Kong, I. S. *Saccharina japonica* fermented by *Monascus* spp. inhibit adipogenic differentiation and gene expression analyzed by real-time PCR (Q-PCR) in 3T3-L1 cell. *Journal of Functional Foods*. (**Major revision, SCIE, Impact factor: 3.47**)
2. **Suraiya S.**, Jang, W. J., Cho, H. J., Choi, Y. B., Park, H. D., Kim J. M. & Kong, I. S. (2018). Immunomodulatory effects of *Monascus* spp-fermented *Saccharina japonica* extracts on the cytokine gene expression of THP-1 cells. *Applied Biochemistry and Biotechnology*. (**SCI, Impact factor: 1.79**)
3. **Suraiya S.**, Park, H. D., Jang, W. J., Cho, H. J., Rafiqzaman, S.M., Sarker, M. K. & Kong, I. S. (2018). Utilization of *Saccharina japonica* as a solid-fermented substrate for the production of bioactive ethanolic extract. *Waste and Biomass Valorization*. (**SCIE, Impact factor: 1.87**)
4. **Suraiya, S.**, Kim, J. H., Tak, J. Y., Siddique, M. P., Young, C. J., Kim, J. K., & Kong, I. S. (2018). Influences of fermentation parameters on lovastatin production by *Monascus purpureus* using *Saccharina japonica* as solid fermented substrate. *LWT-Food Science & Technology*, 92, 1-9. (**SCI, Impact factor: 3.129**)

5. **Suraiya, S.**, Lee, J. M., Cho, H. J., Jang, W. J., Kim, D. G., Kim, Y. O., & Kong, I. S. (2018). *Monascus* spp. fermented brown seaweeds extracts enhance bio-functional activities. *Food Bioscience*, 21, 90-99. (SCI, Impact factor: 2.37)
6. **Suraiya, S.**, Siddique, M. P., Lee, J. M., Kim, E. Y., Kim, J. M. & Kong, I. S. (2018). Enhancement and characterization of natural pigments produced by *Monascus* spp. using *Saccharina japonica* as fermentation substrate. *Journal of Applied Phycology*, 30(1), 729–742. (SCI, Impact factor: 2.40)
7. Siddique, M. P., Jang, W. J., Lee, J. M., Ahn, S. H., **Suraiya, S.**, Kim, C. H., & Kong, I. S. (2017). GroEL is a suitable genetic marker for detecting *Vibrio parahaemolyticus* by loop-mediated isothermal amplification (LAMP) assay. *Letters in applied microbiology*, 65, 106-113. (SCI, Impact factor: 1.47)
8. Hossain, M.A., **Suraiya, S.**, Haq, M. & Rahman, M. M. (2013). Genetic variation among three wild populations of stinging catfish (*Heteropneustes fossilis*) by allozyme electrophoresis. *Journal of Fisheries.*, 01 (01): 14-21.
9. Islam, M.E., **Suraiya, S.** & Khan, M.M.R. (2013). Morphological and genetic analysis by allozyme marker of local magur (*Clarias batrachus*) sampled from two beels and one hatchery of Bangladesh. *Int. J. Sustain Agril. Tech.* 9(1):12-18.
10. **Suraiya, S.**, Haq, M. & Khan, M.M.R. (2012). Induced breeding and larval rearing of local and Thai koi (*Anabas testudineus*, Bloch, 1792). *J. Innov. Dev. Strategy.* 6(1): 63-68.
11. **Suraiya, S.**, Khan, M.M.R., Haq, M., Hossain, M.A. & Ahammad, A.K.S. (2009). Morphological and allozyme variation of three river populations of bata, *Labeo bata* (Hamilton) in Bangladesh. *Int. J. Bioresearch.*, 6(3): 6-13.

Conferences Attended Poster/Oral presentation

1. O-62 **Suraiya, S.** & Kong, I.S. Regulation of cytokine gene expression and adipogenesis inhibition by pigments and lovastatin produced in *Monascus* spp. fermented *Saccharina japonica*. 1st International Conference on Biological and Environmental Research: Recent Development, Challenges and Future Prospects, Bangladesh, 16–17 September, 2018, Bangladesh.
2. P-63 **Suraiya, S.** & Kong, I.S. Utilization of brown seaweed, *Saccharina japonica* as a solid-fermented substrate for the production of bioactive extract. 1st International Conference on Biological and Environmental Research: Recent Development, Challenges and Future Prospects, Bangladesh, 16–17 September, 2018, Bangladesh. (Best poster award received)
3. P3_24 **Suraiya S.**, Choi, Y.B., Park, H.D., Jang, W.J., Lee, E.W., & Kong, I.S. *Monascus* spp. fermented *Saccharina japonica* containing lovastatin suppress adipogenesis and adipogenic gene expression in 3T3-L1 cells. Life Science Innovation, Now and Future: Bio Health & 4th Industrial Revolution, 9–10 August, 2018, Republic of Korea.
4. P3_25 **Suraiya S.**, Choi, Y.B., Park, H.D., & Kong, I.S. Regulation of cytokine gene expression of THP-1 cells and kinetic mode of hyperglycemic related enzyme inhibition by pigments rich ethanolic extracts of *Monascus* spp.-fermented *Saccharina japonica*. Life Science Innovation, Now and Future: Bio Health & 4th Industrial Revolution, 9–10 August, 2018, Republic of Korea.
5. P043 **Suraiya, S.**, Lee, J.M., Siddique, M.P., & Kong, I.S. Enhancement of natural pigments production by *Monascus purpureus* and *Monascus kaoliang* using *Saccharina japonica* as fermented substrate. Korean Society for Microbiology and Biotechnology, 16–17 February, 2017, Republic of Korea.
6. PA5 **Suraiya, S.**, Kim, J.H., Young, C.J., Siddique, M.P., & Kong, I.S. Optimization of lovastatin production by *Monascus purpureus* using brown seaweed, *Saccharina japonica* as solid fermented substrate. The Korean Society of Fisheries and Aquatic Science, 11–12 May, 2017,

Republic of Korea.

7. P-11 **Suraiya S.**, Choi, Y.B., Cho, H.J., Jang, W.J., Park, H.D., & Kong, I.S. Natural pigment and lovastatin production from *Monascus* spp. using *Saccharina japonica* as fermentation substrate: optimization and characterization. International Symposium between Pukyong National University and Nagasaki University, 4 December, 2017, Republic of Korea.
8. P04-40 **Suraiya, S.**, Lee, J.M., Kim, J.M., Siddique, M.P. & Kong, I.S. Antioxidant, Antimicrobial and Anti-Cholesterol Activity of *Monascus* Fermented Seaweed Extract and Production of *Monascus* Pigment. The 7th World Fisheries Congress Conference, 23–27 May, 2016 at BEXCO, Busan, Republic of Korea.
9. P042 Siddique, M.P. Lee, J.M., **Suraiya, S.**, Jang, W.J., & Kong, I.S. Development and application mediated Isothermal amplification (LAMP) assay for the detection of *Vibrio parahaemolyticus* using groEL gene. Korean Society for Microbiology and Biotechnology, 16–17 February, 2017, Republic of Korea.
10. PA3 Siddique, M.P., Jang, W.J, Lee, J.M., Ahn, S.H., **Suraiya, S.**, Kim, C.H., & Kong, I.S. Development of loop-mediated isothermal amplification (LAMP) assay for detecting *Vibrio anguillarum* using groEL gene. The Korean Society of Fisheries and Aquatic Science, 11–12 May, 2017, Republic of Korea.
11. PA4 Siddique, M.P., Jang, W.J, Cho, H.J., Lee, J.M., **Suraiya, S.**, Kim, C.H., & Kong, I.S. Application of groEL gene for species-specific detection of *Vibrio anguillarum* and *Vibrio parahaemolyticus* by loop-mediated isothermal amplification (LAMP) assay. The Korean Society of Fisheries and Aquatic Science, 11–12 May, 2017, Republic of Korea.
12. **Suraiya, S.**, Khan, M.M.R., Hossain, M.A. and Hasan, M., 2008. Study on morphological and allozymic variation of three river population of bata (*Labeo bata*) in Bangladesh. International Biotechnology Conference Abstract, F 12, 47pp held on 7-8 June, 2008 at BARC, Dhaka, Bangladesh.
13. Hossain, M.A., Khan, M.M.R., Ahammad, A.K.S. and **Suraiya, S.**, 2008. Morphological and allozyme variation on the natural populations of shing (*Heteropneustes fossilis*) in Bangladesh. International Biotechnology Conference Abstract, F 11, 47pp held on 7-8 June, 2008 at BARC, Dhaka, Bangladesh.

Personal Interest

I have great passion in research, reading, gardening and traveling.

Signature

Sharmin Suraiya