

## Nadeesha Kumari Athukorala

Temporary Demonstrator, Department of Molecular Biology and Biotechnology, Faculty of Science,  
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### RESEARCH INTERESTS

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- Microbiology, immunology, virology, reproductive biology, and biochemistry.
- Exploring novel biocatalysts with industrially demanding properties.

### EDUCATION

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**University of Peradeniya, Sri Lanka**

2017 Jan – 2021 Jun

BSc Four-year Honors Degree in Molecular Biology and Biotechnology, Faculty of Science, University of Peradeniya, Sri Lanka. **GPA 3.91 out of 4.00 (First Class Honor), 2021.**

**Key courses followed in BSc:** *Molecular Genetics, Biochemistry, Molecular Developmental Biology, Virology, Molecular Phylogenetics, Quantitative Genomics and Molecular Breeding, Enzymology, Recombinant DNA Technology, Molecular Cell Biology, Bioinformatics, Molecular Immunology, Biotechnology, Advanced Microbiology, Analytical Chemistry, Biochemistry and Molecular Biology Laboratory, Human Resource Management, Vertebrate Diversity, and Invertebrate Diversity.* [[Transcript](#)]

**Girls' High School, Kandy, Sri Lanka**

2012 - 2014

GCE Advanced level: Biology-B (very good pass > 65%), Chemistry-B and Physics-B. **Z-score: 1.5226**

**Vision International School, Kandy, Sri Lanka**

2000 - 2011

GCE Ordinary Level 2011: A (distinctions > 75%) for all nine subjects.

### THESIS

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**Identification of a lipolytic *Trichoderma* sp. and characterization of its crude extracellular lipase.**

Supervisor: Prof. P. Samaraweera

Thesis defense: Secured 4.00 / 4.00 GPA [[Poster](#)]

Presentation: at the Undergraduate Research Symposium, University of Peradeniya [[Poster](#)]

### PUBLICATIONS

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**Abstracts in conference proceedings**

**Athukorala, N.K.** and Samaraweera, P. (2021). *Identification of a lipolytic *Trichoderma* sp. and characterization of its extracellular lipase.* Proceedings of the Postgraduate Institute of Science Research Congress, Postgraduate Institute of Science, University of Peradeniya, Sri Lanka. p114. [[PDF](#)]

**Journal papers under review**

**Athukorala, N.K.**, Rajapakse, S., Sooriyapathirana, S.D.S.S. *A combination of carrier erythrocytes and artificial nanoparticles as a promising approach for drug delivery: a review.* International Journal of Nanoparticles.

### INDEPENDENT STUDY

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**A combination of carrier erythrocytes and artificial nanoparticles as a promising approach for drug delivery.**

[[PDF](#), [Presentation](#)] | Secured 4.00/4.00 GPA

### AWARDS

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**University Award for the Academic Excellence (2019/2020)** based on the results of the examinations in BSc (Honors) in Molecular Biology and Biotechnology, University of Peradeniya, Sri Lanka.

## SKILLS

### **Molecular Biology**

- DNA extraction
- PCR amplification
- Agarose and Polyacrylamide Gel Electrophoresis
- Spectroscopy
- Culturing and maintaining fungi
- Protein extraction, purification and SDS-PAGE

### **Bioinformatics:**

- Analyzing and retrieving molecular data
- Phylogenetic analysis

### **Computer Skills**

- Successfully completed the Computer Science for Academic Purpose course conducted by English Language Teaching Unit of the Faculty of Science, University of Peradeniya, Sri Lanka (2016)
- Data analysis using the statistical packages SAS and Minitab
- Skilled in using MS office package

### **English Language Proficiency**

- IELTS Overall 7.0 = Writing: 7.0, Speaking: 6.5, Listening: 8.5 and Reading: 6.5 (October 2021).
- Successfully completed the two-year Certificate Course on English for Academic Purposes, conducted by the English Language Teaching Unit, Faculty of Science, University of Peradeniya (2017-2018)
- School education and BSc Honors program were followed in English medium (2000-2021)

**Other Courses:** Successfully completed course on Research Data Management and Sharing, an online course authorized by The University of North Carolina at Chapel Hill and The University of Edinburgh (2021)

## PROFESSIONAL EXPERIENCE

**Temporary Demonstrator** (July 29, 2021 - Present), Department of Molecular Biology and Biotechnology, Faculty of Science, University of Peradeniya, Sri Lanka.

### **Nature of duties**

- Conducting practical classes for undergraduates
- Marking the lab reports and assignments
- Supporting administrative activities of the Department

## ATTENDED WORKSHOPS

- Current Status and Future Prospects of Pharmaceutical Industry in Sri Lanka. Conducted by the Postgraduate Institute of Science Board of Study in Biomedical Sciences, 2021.

## EXTRA-CURRICULAR ACTIVITIES

- Member of Molecular Biology Association at Faculty of Science, University of Peradeniya (2017-21)
- Member of Zoologists' Association at Faculty of Science, University of Peradeniya (2017-2019)
- Member of school western band (Vision International School, 2004-2008)

## OTHER PUBLICATIONS

### **Book Chapters**

\*First-eleven authors have contributed equally – Each of them can be considered as the first co-author.

\*\*These five authors have contributed equally – Each of them can be considered as the second co-author.

\***Athukorala, N.K.**, \*Karunathilaka, K.M.H.L., \*Gunatilake, K.S., \*Gunawardane, M.H.M.I.M., \*Chandrasekara, T.M., \*Thilakarathne, B.A.A.S., \*Piyawardana, M.D.S.D., \*Perera, A.Y.P., \*Makuldeniya, M.W.M.T.U.G., \*Sunilrathne, V.S., \*Suriyaarachchi, H., \*\*Warallanda, W.G.A.P., \*\*Nathali, W.W.W.M.L., \*\*Rathnayake, P.G.R.G., \*\*Salih, R., \*\*Thivya, B., Sooriyapathirana, S.D.S.S. (2021). Principles and applications of genetics. – Chapter 2. In Sooriyapathirana, S.D.S.S.

(Ed.), Genetics, Molecular Genetics and Biotechnology (A textbook in Sinhala Language). ISBN 978-955-41753-7-2. pp. 25-89. (In Press)

**\*Athukorala, N.K.**, \*Karunathilaka, K.M.H.L., \*Gunatilake, K.S., \*Gunawardane, M.H.M.I.M., \*Chandrasekara, T.M., \*Thilakarathne, B.A.A.S., \*Piyawardana, M.D.S.D., \*Perera, A.Y.P., \*Makuldeniya, M.W.M.T.U.G., \*Sunilrathne, V.S., \*Suriyaarachchi, H., \*\*Mahathanthrige, H.T., \*\*Senanayaka, S.G.M.S.D., \*\*Rathnayake, P.G.R.G., \*\*Salih, R., \*\*Thivya, B., Sooriyapathirana, S.D.S.S. (2021). Molecular genetics. – Chapter 3. In Sooriyapathirana, S.D.S.S. (Ed.), Genetics, Molecular Genetics and Biotechnology (A textbook in Sinhala Language). ISBN 978-955-41753-7-2. pp. 91-171. (In Press)

**\*Athukorala, N.K.**, \*Karunathilaka, K.M.H.L., \*Gunatilake, K.S., \*Gunawardane, M.H.M.I.M., \*Chandrasekara, T.M., \*Thilakarathne, B.A.A.S., \*Piyawardana, M.D.S.D., \*Perera, A.Y.P., \*Makuldeniya, M.W.M.T.U.G., \*Sunilrathne, V.S., \*Suriyaarachchi, H., \*Ranatunga, R.A.S., \*\*Jayasundara, E.J.M.I.K., \*\*Rathnayake, P.G.R.G., \*\*Salih, R., \*\*Thivya, B., Sooriyapathirana, S.D.S.S. (2021). Techniques of genetic engineering – recombinant DNA technology. – Chapter 4. In Sooriyapathirana, S.D.S.S. (Ed.), Genetics, Molecular Genetics and Biotechnology (A textbook in Sinhala Language). ISBN 978-955-41753-7-2. pp. 173-238. (In Press)

**Athukorala, N.K.**, Chandrasekara, T.M., Gunawardane, M.H.M.I.M., Mahathanthrige, H.T., Jayasundara, E.J.M.I.K., Sooriyapathirana, S.D.S.S. (2021). Structure and function of proteins. – Chapter 5. In Sooriyapathirana, S.D.S.S. (Ed.), Genetics, Molecular Biology and Biotechnology (A textbook in Sinhala Language). ISBN 978-955-41753-7-2. pp. 239-255. (In Press)

Chandrasekara, T.M., **Athukorala, N.K.**, Gunatilake, K.S., Senanayaka, S.G.M.S.D., Warallanda, W.G.A.P., Sooriyapathirana, S.D.S.S. (2021). Genetic basis of mutations, importance, and applications. – Chapter 11. In Sooriyapathirana, S.D.S.S. (Ed.), Genetics, Molecular Genetics and Biotechnology (A textbook in Sinhala Language). ISBN 978-955-41753-7-2. pp. 423-446. (In Press)

Thilakarathne, B.A.A.S., Karunathilaka, K.M.H.L., **Athukorala, N.K.**, Salih, R., Rathnayake, P.G.R.G., Sooriyapathirana, S.D.S.S. (2021). DNA fingerprinting. – Chapter 7. In Sooriyapathirana, S.D.S.S. (Ed.), Genetics, Molecular Genetics and Biotechnology (A textbook in Sinhala Language). ISBN 978-955-41753-7-2. pp. 281-320. (In Press)

## REFEREES

### Prof. P. Samaraweera

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