



W.T.G.S.L. Withana

**Research Scientist
Biotechnology Unit**

Qualifications

B.Sc. (Hons) – Agriculture, Second class Honors ,
Specialized in Plant Genetics
and Molecular Biology, (University of Ruhuna , 2011)

Contacts

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**Specialized
Fields**

Genetics and Molecular Biology

Interest Areas

Recombinant DNA Technology
QTL Analysis
Bio Marker designing & Analysis

Publications

Publications

1. Withana S.L., Ratnasekera Disna, Samarasinghe W.L.G. Morphological Evaluation and Molecular screening for Drought Resistance for rice (*Oryza sativa L.*) 03rd International Symposium south Eastern University of Sri Lanka, Proceedings, 2013 vol.1 (page 92-96).
2. Withana SL, Samarasinghe WLG, Ratnasekera Disna, Senanayake SGJN, Morphological Evaluation and Molecular screening for Drought Resistance for rice (*Oryza sativa L.*) 09th Academic Session, University of Ruhuna, 2012.
3. Talwatta VN, Rodrigo WWP, Achala HHK, Withana WTGSL, Athapaththu AMMH, Gunathilaka PADHN, Optimization of a DNA extraction method to isolate DNA from processed food samples for the detection of Genetically Modified (GM) Food., Biennial Research Symposium -2015, ITI, Sri Lanka.
4. Talwatta, V.N., Rodrigo, W.W.P., Achala, H.H.K., Withana, W.T.G.S.L., Athapaththu, A.M.M.H. and Bulumulla, P.B.A.I.K. (2016). Optimization of A Polymerase Chain Reaction Based Technique to Detect Genetically Modified Foods. *Proceedings of the 6th Research Symposium of Uva Wellassa University of Sri Lanka*, 1.
5. Ratherfer, B., Bandara, K.G.W.W., Achala, H.H.K. and Withana, W.T.G.S.L. (2016). *Agrobacterium tumefaciens* mediated in planta transformation of Bg 94-1 rice (*Oriza sativa L. ssp. indica*). *Proceedings of the 36th annual sessions of the Institute of Biology*, 41.
6. Delpachithra, H.D., Munasinghe, M., Withana, W.T.G.S.L., & Rodrigo, W.W.P. (2017). Transformation and screening of lysine rich transgenic rice plants. *Third Symposium of Uni-In Alliance 2017*, University of Sri Jayewardenepura, 92.
7. Delpachithra, H.D., Rodrigo, W.W.P. & Withana, W.T.G.S.L. (2017). Regeneration of ferritin rich transgenic rice plants using in-planta transformation method. *Proceedings of the Postgraduate Institute of Science Research Congress 2017 (RESCON 2017)*, University of Peradeniya, 74.
8. Dabare, E.S.S., Withana, W.T.G.S.L., Athapaththu, A.M.M.H. & Rodrigo, W.W.P. (2017). Conventional Duplex PCR: A reliable & sensitive tool for detection of bovine and porcine DNA in gelatin containing food and pharmaceutical products. *Industrial Technology Institute, Sri Lanka*, 3rd Biennial Research Symposium, 35-36.
9. Madampage, J.O., Withana, W.T.G.S.L., Rodrigo, W.W.P., Athapaththu, A.M.M.H. (2017). Evaluation of methods for the extraction of genomic DNA from processed dairy foods. *Industrial Technology Institute, Sri Lanka*, 3rd Biennial Research Symposium, 37-38.
10. Gamage, R.K.J., Jahufer Ali, A.F., Withana, W.T.G.S.L., Attanayake, A.M.A.S. & Athapaththu, A.M.M.H. (2017). Optimization of PCR Amplification of Chloroplast Gene Regions of Selected Endemic Plants for Plant DNA Barcoding and Conservation. *Industrial Technology Institute, Sri Lanka*, 3rd Biennial Research Symposium, 39-40.
11. Rupasinghe, R.A.L., Withana W.T.G.S.L., Rodrigo, W.W.P. & Athapaththu, A.M.M.H. (2018). Detection of Species adulterations in canned Tuna products in Sri Lanka. *Vingnanam International Research*

	<p>Conference – 2018 (VIRC 2018), Faculty of Science, University of Jaffna, Sri Lanka.27.</p> <p>12. Lakshika, G., Rodrigo, W.W.P., Withana W.T.G.S.L. & Kapuruge T.N. (2018). Development of a polymerase chain reaction based method for the detection of adulterations in chicken and turkey meat products. <i>Vingnanam International Research Conference – 2018 (VIRC 2018), Faculty of Science, University of Jaffna, Sri Lanka.22.</i></p> <p>13. Benedict, Mare.D., Athapaththu, A.M.M.H., & Withana W.T.G.S.L. (2018) Detection of genetically modified (GM) food items in the market using real time PCR (RT-PCR) based assay. <i>Vingnanam International Research Conference – 2018 (VIRC 2018), Faculty of Science, University of Jaffna, Sri Lanka. 2</i></p> <p>14. Lavensan R.D.B., Niroshana N.P.S.K., Achala H.H.K., Rodrigo W.W.P., Withana, W.T.G.S.L., Attanayake, A.A.M.A.S., Samaresekera J.K.R.R., Athapaththu A.M.M.H.(2018). Plant DNA barcoding of <i>rbcL</i> gene for eight endemic plant species of <i>Dipterocarpaceae</i> family for authentication. Proceedings of the 38th annual sessions of the institute of biology, Sri Lanka-2018. pp 62.</p>
<p>Major Projects Undertaken</p>	<ul style="list-style-type: none"> • Iron fortification of rice seeds using soya bean ferritin gene • Expression of lysine rich protein <i>SBgLR</i> gene in rice seed • Establishment of rice percentage in wheat/rice bread • Development of a molecular based assay for differentiate <i>Thunnus obesus</i> (big eye tuna) and <i>Thunnus albacores</i> (yellow fin tuna) • Development of molecular based testing for Genetically modified food items and diagnostic tests for food borne pathogens