CURRICULUM VITAE

Prof. RGSC Rajapakse (Sanath Rajapakse)

Address	Department of Molecular Biology & Biotechnology, Faculty of Science University of Peradeniya Peradeniya, Sri Lanka	Residential Address	Nugamale, Doluwagama, Menikdiwela, Sri Lanka
Phone:	+ 94 812394505, +94 777801257 +94 713215132	Phone E mail	+ 94 812058005 sanathrajapakse@yahoo.com
Fax	+94 812388018		
E mail	sanathr@) pdn.ac.lk		

EDUCATION

2006	Ph.D, Hokkaido University, Japan
2002	M.Phil in Biochemistry and Molecular Biology, University of Peradeniya, Sri Lanka
1997	B.Sc (Special) Honors, University of Peradeniya, Sri Lanka

SCHOLARSHIPS/FELLOWSHIPS/AWARDS

2015	NRC Merit Award
2014	SUSRED Award, National Science Foundation, Sri Lanka
2014	Presidential awards for Research
2013	Post-Doctoral Fellowship (Invitation Fellowship) - Japan Society for Promotion of Science
2013	Presidential awards for Research
2012	Presidential awards for Research
2007	Presidential awards for Research
2004	Presidential awards for Research
2002-2006	Japanese Government Monbukagakusho Scholarship for PhD Studies

WORK EXPERIENCE

Nov. 2014 to date	Professor in Molecular Biology and Biotechnology, Dept. of Molecular Biology and Biotechnology, Faculty of Science, University of Peradeniya, Sri Lanka.
June 2013 to Nov. 2014	Senior Lecturer Grade I, Dept. of Molecular Biology and Biotechnology, Faculty of Science, University of Peradeniya, Sri Lanka.
June 2013 - March 2014	Post-Doctoral Fellow under Japan Society for Promotion of Science Invitation Fellowship
April 2006 – June 2013	Senior Lecturer Grade II, Dept. of Molecular Biology and Biotechnology, Faculty of Science, University of Peradeniya, Sri Lanka.
2002 to 2006	PhD candidate, Hokkaido University, Japan
2000 to 2002	Temporary Lecturer, Sabaragamuwa University of Sri Lanka
1998 to 2000	Research Assistant, Institute of Fundamental Studies, Kandy
March 1997 to Jan.1998	Temporary Assistant Lecturer, Department of Botany, University of Peradeniya

CONTRIBUTIONS TO FACULTY/ACADEMIC GROUPS/POSITIONS HELD

2019 July to date	**Head,** Department of Molecular Biology and Biotechnology
2017April to date	**Chairman**, Board of study in Biochemistry and Molecular Biology, Postgraduate Institute of Science, University of Peradeniya
2017 April to date	Member, Board of Management, Postgraduate Institute of Science, University of Peradeniya
2019 October to date	**Membe**r, Council of the University of Peradeniya, Sri Lanka
2017 April to 2019 Aug.	**Director**, Science Education Unit, Faculty of Science
2016 to 2019 Aug	**Chairman**, Quality Assurance Cell, Faculty of Science
2016	**Deputy Proctor**, Faculty of Science
2011 to 2013	**Head,** Department of Molecular Biology and Biotechnology
June-August 2014	**Acting Head,** Department of Molecular Biology and Biotechnology
2010 to 2013	**Chairman**- Curriculum Development Committee, Faculty of Science, University of Peradeniya
June to Aug.2014	**Acting Secretary -** Board of study in Biochemistry and Molecular Biology, Postgraduate Institute of Science
2012 to 2013	**Faculty Representative -** Staff development Centre, Planning Committee, University of Peradeniya
2011 to date	**Member,** Technical evaluation Committee (Laboratory Chemicals and Laboratory equipments, Faculty of Science, University of Peradeniya
2007 to 2015	**Member,** Editorial Board of the Ceylon Journal of Science (Biological Science)

2008 to date	**Member,** Board of Study in Molecular Biology & Biochemistry, Postgraduate Institute of Science, University of Peradeniya, Sri Lanka
2009- to date	Coordinator of the MSc program in Nanoscience and Nanotechnology, Postgraduate Institute of Science, University of Peradeniya, Sri Lanka
2015- to date	Coordinator of the MSc program in Experimental Biotechnology, Postgraduate Institute of Science, University of Peradeniya, Sri Lanka
2013 to 2014	**Treasurer,** Science Teachers Association, University of Peradeniya,
2014 to 2015	**President,** Science Teachers Association, University of Peradeniya,
2013	**Member,** Committee to propose a scheme to improve English Language Skills of Undergraduates
2012	**Member,** Web Development committee, Faculty of Science, University of Peradeniya
2007-2012	**Senior Treasurer,** Molecular Biology Association, University of Peradeniya
2010 to 2011	**Member** - Faculty subcommittee on the applied Science Degree program
2006 to 2010	**Senior Student Counselor,** University of Peradeniya
2010	Rag Prevention Committee, Faculty of Science University of Peradeniya
2010	**Member,** Appeal committee relating to student discipline
2007 to 2009	**Member,** Faculty subcommittee on the formulation of a Special degree program in Biology
2007 to 2009	**Faculty Representative** - Working Group on intellectual property curriculum development.
2007 to 2008	**Senior Academic Sub-warden-** Arunachalam Hall, Univeristy of Peradeniya
2006	**Member,** QA Cell of the Faculty of Science

TEACHING

Undergraduate	Biomolecules, General Microbiology, Introduction to Biotechnology and its applications, Enzymology, Molecular Cell Biology, Special topics in Cell and Molecular Biology, Environmental Biotechnology, Molecular Biology of Plant and Animal diseases, Molecular Biology of Development.
Graduate	MSc in Experimental Biotechnology - Protein Chemistry, Molecular Genetics and Molecular Microbiology MSc in Nanoscience and nanotechnology- Biochemistry related to Nanoscience and Nanotechnology, Nanobiotechnology and Nanotechnology laboratory MSc in Science Education (Biology Education) - Molecular Biology and Its Applications MSc in Medical Microbiology- Microbial Genetics MSc in Pharmaceutical Botany- Analytical Methods in Pharmaceutical Science

PROFESSIONAL AND ACADEMIC MEMBERSHIPS

2010 to date	*University of Peradeniya Science Alumni Association UPSAA (Life member)*
2000- to date	*Sri Lanka association for the Advancement of Science (SLAAS) (Life member)*
2007 to date	*Institute of Chemistry, Sri Lanka, member*
2010 to date	*Institute of Biology, (Life member)*

PROFESSIONAL ACTIVITIES

Apr. 1-3, 2013	**Coordinator/ Resource Person** - Workshop for Advanced Level Biology Teachers of the Uva Province, conducted by the Science Education Unit, Faculty of Science, from 1st to 3rd - April 2013
April, May 2013	**Resource Person,** on Curriculum Revision to Revise the Molecular Biology/Biotechnology course units in the curriculum of the Departments of Botany/Fisheries/Zoology - University of Jaffna.
June 27, 2010	**Resource Person,** Workshop to Review the Existing Degree Programs, curricular and methods of Assessment. Organized by the Faculty of Science, University of Peradeniya, held at the Hotel Topaz, Kandy
March 20, 2009	**Resource Person,** Workshop on Invasive Plants, Identification, Characterization and Management. Organized by the Institute of Biology, Sri Lanka- held at Girl's High School, Kandy
Nov. 17, 18 -2011	**Evaluator-** Technical Session on Molecular Biology and Gene Manipulation, of the 23rd Annual Congress of the Postgraduate Institute of Agriculture, University of Peradeniya.

GRADUATE STUDENTS ALONG WITH THEIR THESIS TITLES

1. RS Diyabalanage-PhD (2019) Thesis title- Chemico geography of selenium and its impact on food chain quality and animal health in Sri Lanka. (co- supervisor)

2. RS Hewawasam. – PhD (2018) Thesis title - Bioethanol and wine from fruits of *Musa* spp. By microbial fermentation. (co supervisor)

3. KNM Wijayathilaka - PhD (2016) Thesis title: Phylogenetic relationships, biogeography and ecology of Sri Lankan Microhylids (Anura: Microhalynae) (co-supervisor)

4. WBWMRYC Aluwihare - PhD (2016) -Thesis title: Identification of the genomic regions associated with phosphorus deficiency tolerance in Sri Lankan rice germplasm for marker assisted breeding (co- supervisor)

5. CS Hettiarachchi - PhD (2015)-Thesis title: Rhizobiology of some crop legumes in Sri Lanka for production of rhizobial inoculants (co- supervisor)

6. BJG Jayawardhana - MPhil (2016) - Thesis title: Molecular phylogenetics and physiogeography of two bufanoid lineages (Anura: Bufonidae: Adenominae) of Sri Lanka. (co- supervisor)

7. AIS Priyadarshan - MPhil (2015) - Thesis title: Exploring the phenetic and genetic diversity of genera *Tephrosia* and *Flueggea* (vern: pila) and developing effective propagation systems. (co- supervisor)

8. AMTK Bandara - MPhil (2013) -Thesis title: Purification and characterization of thermostable DNases from Bacteria in hot springs of Trincomalee, Sri Lanka (Principal supervisor)

9. IMCCD Bandara - MPhil (2013) - Thesis title: Development of self-cleaning and antimicrobial textile material (co- supervisor)

10. ALA Lakmini MSc (2019) – Thesis title- Bacterial diversity profile of rice endophytes with biofilm biofertilizer and chemical fertilizer applications (co-supervisor)

11. HPKU Jayathilake, MSc (2018)- Thesis title -Determination of the phylogenetic position of *Nepenthes distillatoria* using *rbcL* and *rbcS* sequences (supervisor)

12. VRRU Udapamunuwa MSc (2018)- Thesis title- Physiological characterization and genetic diversity analysis of rhizobial populations inhabiting *Gliricidia sepium* from selected locations of Anuradhapura district, Sri Lanka. (supervisor)

13. MGKP Dayarathne -MSc- (2018). Thesis title-Identification, partial purification and Characterization of serine and aspartic protease inhibitors from *Nothopegia beddomei* (supervisor)

14. DVS Samarasinghe -MSc- (2018) -Thesis title- Evaluation of treatment efficiency of the serum from skim Latex coagulation with different coagulants by aerobic microbes. (Supervisor)

15. BDS Muthusinghe-MSc-(2018)-Thesis title- Identification of pathogenic *Leptospira* species among swine in Sri Lanka: use of *flaB* gene-based PCR and *16S rRNA* based lamp method. (co supervisor)

16. A. Rajalingam- MSc - (2017) - Thesis title: Characterization of *Rhizobium* spp. In *Mimosa pudica* L from five different districts of Sri Lanka. (Supervisor)

17. TSGSB Wijayarathna - MSc - (2017) - Thesis title: Development of an assay procedure for aspartic protease inhibitory activity and screening candidate plants (Supervisor)

18. T Theivendram - MSc - (2017) - Thesis title: Characterization of *Rhizobium* spp. In *Clitoria ternatea* L from five different districts of Sri Lanka (Supervisor)

19. LD Rangama- MSc - (2016) - Thesis title- Phylogenetic group distribution of human fecal *Escherichia coli* in Kandy district, Sri Lanka. (co- supervisor)

20. RMPCD Rajapaksha- MSc (2016)-Thesis title: Improved bactericidal activity of graphene oxide, FeO nanocomposite against pathogenic bacteria (co-supervisor)

21. JGB Epakanda - MSc (2016) - Thesis title: Storage, durability and antibacterial efficacy of antibiotic coated gauze in diabetic wounds and enhancement after coating Nano Zinc oxide (co- supervisor)

22. YA Haleema - MSc (2016)-Thesis title: The purification and partial characterization of foam nest proteins of *Polypedates cruciger* (Principal supervisor)

23. TCMF Karunarathne -MSc (2015)- Thesis title: Occurrence of serine protease inhibitory activity in the bark extract of *Entada pursaetha* (Supervisor)

24. NPA Hasna-MSc (2015) - Thesis title: studies of serine protease inhibitors in the bark extract of *Derris parviflora* (Supervisor)

25. MBD Lakmalie - MSc (2014) -Thesis title: A DNA fingerprinting scheme to identify the mix ups in semen samples of cattle breeds in artificial insemination programs of Sri Lanka. (co- supervisor)

26. EVK Erathne - MSc - (2014) - Thesis title: Investigation of Aspartic Protease Inhibitory activity in the bark extract of *Dillenia retusa* (supervisor)

27. V Karmegam -MSc (2013) - Thesis title: Antimicrobial efficacy of Nano zinc Oxide coated cross linked cotton (co- supervisor)

28. P Paramasamy MSc (2013) - Thesis title: Characterization of molecular diversity and physiological properties of Rhizobial populations in *Crotolaria juncea.* (Supervisor) \

29. SNJ Pathirana MSc (2013)- Thesis title: Isolation of lipolytic fungi and partial purification of lipases (co- supervisor)

30. NS Wickremasinghe - MSc (2013) - Thesis title: Isolation and identification of petroleum degrading fungi and bacteria from petroleum contaminated soil (co-supervisor)

31. BDS Jayawardana - MSc (2012) - Thesis title: Protease inhibitors in *Sesbania grandiflora* and *Terminalia catappa* (co- supervisor)

32. NADJ Bandara- MSc (2010)- Thesis title: Isolation and characterization of a trypsin inhibitor from seeds of *Tamarindus indica* (co- supervisor)
33. EMWGP Ekanayake - MSc (2010)-Thesis title: Improvement of performance of students through an activity-oriented approach to teach enzymes for G. C. E advanced level Biology students (Supervisor)

34. EA Prabodha Ekanayake - MSc (2009) - Thesis Title: Characterization of deoxyribonucleases from pitcher fluid of *Nepenthes distillatory* (co- supervisor)

RESEARCH INTERESTS

- Dissecting the molecular mechanism underlying follicle rupture during ovulation in vertebrates
- Studies on hydrolytic enzymes from Carnivorous plants and thermophilic bacteria
- Development & characterization of functional Textile materials with antimicrobial activities
- Characterization of Physiological and genetic diversity of *Rhizobium* spp. in wild legumes in Sri Lanka
- Protease inhibitory activity of Sri Lankan plants
- Evaluation of species limits of Sri Lankan flora by DNA barcoding
- Production of bioethanol as a Renewable Energy Source using Microbial Fermentation with different microbial species, using Economical Substrates.

RESEARCH GRANTS

YEAR	AWARDING BODY	PROJECT TITLE	DURATION
2006	University of Peradeniya	Purification and characterization of nucleases from *Nepenthes distillatoria*	1 year

2008	University of Peradeniya	Purification and characterization of phosphatases from the pitcher fluid of *Nepenthes distillatoria*	1 year
2009	National Research Council	Purification, enzymic and structural characterization of novel hydrolytic enzymes from Nepenthes distillatoria	3 years
2009	National Science Foundation	Development & characterization of functional Textile materials with stain resistant & antimicrobial activities	3 years
2011	National Research Council	Identification of genomic regions Associated with phosphate deficiency tolerance in Sri Lankan rice germplasm for marker assisted breeding	3 years
2011	National Science Foundation	Exploring Biological and Chemical diversity of Genera *Flueggea* and *Tephrosia* and to develop effective propagation systems	3 years
2012	University of Peradeniya	Systematic and microhabitat utilization of *Pseudophilautus* species (Sri Lanka shrub frogs) in Peak Wilderness Sanctuary	1 year
2013	University of Peradeniya	Development of an antigen capture ELISA for the detection of pathogenic leptospires during the early phase of infection	2 years
2013	National Research Council	Chemico-geography of selenium and its impact on food chain quality and animal health in Sri Lanka.	3 years

CONTRIBUTION TO NATIONAL EXAMINATIONS

Chief examiner for marking at the G.C.E/ advanced level Examination - Biology, in 2008, 2009, 2012, 2014, 2015, 2016, 2017, 2018, 2019.

PUBLICATIONS

BOOKS

1. Chamikara M, Dissanayake R, Dissanayake I, Herath D, Karannagoda N, Amarasekera S, Rajapaksha P, Tennekoon A (2016) Glossary inSinhala Language (a state language in Sri Lanka) Molecular Biology and Biotechnology-Volume 1. Sooriyapathirana S, Chamikara M, Dissanayake R, **Rajapakse S**. (Eds.) ISBN 978-955-41753-2-77.

2. Daundasekera K, De Silva A, Kularathna T, Madhukalpani S, Ranawaka B, Sylvester T, Tennakoon M (2016) Glossary in Sinhala Language (a state language in Sri Lanka) Molecular Biology and Biotechnology-Volume 2. Sooriyapathirana S, Dissanayake R, **Rajapakse S.** (Eds.) ISBN 978-955-41753-4-1. All authors have equally contributed in writing the Book. Their names are indicated in alphabetical order.

3. Ananda K, Daundasekera K, Kannangara S, Karunaratne S, Ranatunga D, Ranaweera T, Salpadoru T, Thilakaratne N (2017) Glossary in Sinhala Language (a state language in Sri Lanka) Molecular Biology and Biotechnology-Volume 3. Sooriyapathirana S, **Rajapakse S**. (Eds.) ISBN 978-955-41753-5-8. All authors have equally contributed in writing the Book. Their names are indicated in alphabetical order

JOURNAL ARTICLES

1. VRRU Udapamunuwa, PWI Nawanjana, **S Rajapakse**. Stress tolerant rhizobia inhabiting the root nodules of *Gliricidia sepium* from selected locations of Anuradhapura district Sri Lanka. ***Sri Lankan Journal of Agriculture and Ecosystems.*** 2020 (in press)

2. PMH Sandamali, SP Senanayake, **S Rajapakse.** Morphometrics of selected *Dendrobium* spp. (Orchidaceae) in Sri Lanka. ***Tropical Plant Research.*** 2020. 7(1): 149–157.

3. PMH Sandamali, SP Senanayake, **Sanath Rajapakse**. Phylogenetic relationships of selected Sri Lankan Orchids based on Internal Transcribed Spacer (ITS) sequence analysis. ***Tropical Plant Research.*** 2020. 7(1): 76–85.

4. SMNS Samarakoon**, S. Rajapakse**. Identification of stress tolerant rhizobial strains inhabiting *Gliricidia sepium* in the Polonnaruwa district, Sri Lanka. ***Ceylon Journal of Science***. 2020. 49 (1) 37-47. DOI: http://doi.org/10.4038/cjs.v49i1.7704

5. Indrani W. Kularathne, Chamila Gunathilake, Bhagya S Yatipanthalawa, Chandrakantha S. Kalpage, Asanga C. Rathneweera, **Sanath Rajapakse.**. Production of green energy – ethanol dehydration using rice straw, rice husk and

castor oil. ***Biomass Conversion and Biorefinery.*** 2019. DOI 10.1007/s13399-019-00560-9

6. IW Kularathne, CA Gunathilake, AC Rathneweera, CS Kalpage, **S. Rajapakse.** The Effect of Use of Biofuels on Environmental Pollution - A Review. ***International Journal of Renewable Energy Research.*** 2019**.** 09 (03) - 1355-1367.

7. RWKM Senevirathna, VN Seneviratne, **Sanath Rajapakse**. Chitinases from pitcher fluid of *Nepenthes distillatoria*. ***Ceylon Journal of Science.*** 2019. 48(3) 243-249. 249. DOI: http://doi.org/10.4038/cjs.v48i3.7648

8. Saranga Diyabalanage, Ashoka Dangolla, Chandima Mallawa, **Sanath Rajapakse,** Rohana Chandrajith. Bioavailability of selenium (Se) in cattle population in Sri Lanka based on qualitative determination of glutathione peroxidase (GSH-Px) activities. ***Environmental Geochemistry and Health***. 2019. https://doi.org/10.1007/s10653-019-00395-3(0123456789

9. MGKP Dayarathne, **Sanath Rajapakse**. Preliminary investigations on the serine and aspartic protease inhibitors from *Nothopegia beddomei*. ***Ceylon Journal of Science*** 2019: 48(2) 185-189 DOI: http://doi.org/10.4038/cjs.v48i2.7623

10. WMDA Wijesundara, **RGSC Rajapakse**, JAMA Jayatilake, JAMS Jayatilake. A preliminary study of *mecA* gene expression and methicillin resistance in staphylococci isolated from the human oral cavity. ***Sri Lankan Journal of Infectious Diseases*** 2019. 9(1):42-48. DOI: ttp://dx.doi.org/10.4038/sljid.v9i1.8232

11. Rukshika Shalani Hewawasam, Sisira Weliwegamage, **Sanath Rajapakse,** Subramanium Sotheeswaran. Isolation and Characterization of an Entophytic Ethanol Resistant Bacterium from Sap of *Saccharum officinarum* for Efficient Fermentation. ***American Journal of Applied Chemistry*** 2019; 7(2): 42- 46. doi: 10.11648/j.ajac.20190702.11.

12. PWI Nawanjana, **Sanath Rajapakse**. Physiological Characterization and Genetic Diversity Assessment of the Rhizobial Populations Inhabiting *Gliricidia sepium* in selected locations of Ampara District, Sri Lanka**.** ***The Journal of Agricultural Sciences***, 2019. 14 (1), pp.34–48. http://doi.org/10.4038/jas.v14i1.8455

13. Nayana Wijayathilaka, Gayani Senevirathne, Champika Bandara, **Sanath Rajapakse**, Rohan Pethiyagoda, Madhava Meegaskumbura. Integrating Bioacoustics, DNA barcoding and niche modeling for frog conservation - The threatened balloon frogs of Sri Lanka. ***Global Ecology and Conservation***. (2018). https://doi.org/10.1016/J.gecco.2018.e00496.

14. RBSD Rajapakshe, CA Thennakoon, AMA Zajid, RMG Rajapakse, **Sanath Rajapakse.** Multi-Functional Cotton Fabrics with Self-Assembled TiO2 Nanoparticle Seed/TiO2 Nanorod/ZnO Nanoparticle/ Stearic Acid Nanotechnological Architectures. ***Journal of Nanomaterials & Molecular Nanotechnology***. (2018).

15. YC Aluwihare, MDM Chamikara, DRRP Dissanayake, NNH Karannagoda, AGMLK Dayananda, DN Sirisena, WLG Samarasinghe, **RGSC Rajapakse**, SDSS Sooriyapathirana. DNA sequence polymorphophism of *Pup1* linked *k20-1* STS

region can be effectively used in molecular breeding of rice for phosphorous deficiency tolerance. ***Journal of the National Science Foundation of Sri Lanka***. (2017) 45(4): 413-425.

16. L.T. Ranaweera, **S. Rajapakse** and S.D.S.S. Sooriyapathirana. Molecular mechanisms of reversing neural degeneration by retinoic acid, a major derivative of vitamin A. ***Ceylon Journal of Science.*** (2017***)*** 46(3): 5-20**.**

17. R.P.V.G. Subhashi W. Rajapakshe, K.M.G. Gehan Jayasuriya, **Sanath Rajapakse**, D.H.P. Peramunugama. Seed germination and predation of the tropical monocarpic palm tree *Corypha umbraculifera*. ***Taiwania*** (2017) 62(2): 129–138.

18. S. Diyabalanage, T Nawarathna, HTK Abeysundara, **S Rajapakse**, R Chandrajith. Trace elements in native and improved paddy rice from different climatic regions of Sri Lanka: implications for public health. ***SpringerPlus*** (2016) 5:1864 DOI 10.1186/s40064-016-3547-9.

19. N. Jayarathna, S.P. Senanayake, **S. Rajapakse**, L.R. Jayasekera, P. Paranagama. Interspecific relationship of *Piper* species in Sri Lanka as revealed by DNA barcode ITS. ***Journal of Faculty of Graduate Studies*** (2016) University of Kelaniya, Sri Lanka. 37- 47.

20. S.P.N.C. Jayarathna, S.P. Senanayake, **S. Rajapakse**, L.R. Jayasekera. Phenetic Variation and Preliminary Phytochemical Screening of Piper Species in Sri Lanka. ***The Journal of Agricultural Sciences*** (2016) 11 (3) 155-163.

21. J.G.B. Epakande, R.M.G. Rajapakse, R.B.S.D. Rajapakshe, C.A. Thennakoon, **Sanath Rajapakse.** Antibiotic impregnated cotton gauzes for topical antibiotic treatment. ***International Journal of Scientific & Engineering Research*** (2016) 7, (7), 266-273.

22. HKI Perera, BDS Jayawardana, **S Rajapakse.** Heat stable protease inhibitors from *Sesbania grandiflora* and *Terminalia catappa*. ***British Journal of Pharmaceutical Research*** (2016) 11 (4) 1-9.

23. HMPD Herath, MDM. Chamikara, DRRP. Dissanayake, MDMIM. Dissanayake, M. Ishan, **S. Rajapakse** and SDSS. Sooriyapathirana. A comparative assessment of the antibacterial activity in fruit juice of Sri Lankan sweet orange cultivars *vis* a *vis* sour orange. ***The Journal of Agricultural Sciences*** (2016) 11 (1): 13-23.

24. Rukshika Shalani Hewawasam, Chandani Udawatta, Sisira Kumara Weliwegamage, Subramanium Sotheeswaran, **Sanath Rajapakse**. Immobilization of selected microbes at some solid supports for enhanced fermentation process. ***Fermentation Technology*** (2015) 4: 115. doi: 10.4172/2167-7972.1000115.

25. YC Aluvihare, MDM Chamikara, DRRP Dissanayake, NNK Karannagoda, DN Sirisena, WLG Samarasinghe, **S Rajapakse**, SDSS Sooriyapathirana. Validation of K46, a Pup-1 linked marker, using a selection of Sri Lankan rice (Oryza sativa L) germplasm for marker assisted selection towards phosphorous deficiency tolerance. ***Ceylon Journal of Science (Bio.Sci)*** (2015) 44 (2): 45-54.

26. AIS Priyadarshan, SP Senanayake, MP Jayatilleke, **S Rajapakse.** Preliminary phytochemical screening of some *Tephrosia* Spp. (Family Fabaceae) in Sri Lanka. ***Ceylon Journal of Science (Bio.Sci)*** (2015) 44 (2): 101-103.

27. Katsueki Ogiwara, Akane Hagiwara, **Sanath Rajapakse**, Takayuki Takahashi. The role of urokinase plasminogen activator and plasminogen activator inhibitor 1 in follicle rupture during ovulation in the teleost medaka. ***Biology of Reproduction*** (2015) 92 (1) 10, 1-17.

28. **Sanath Rajapakse**, Katsueki Ogiwara, Takayuki Takahashi. Characterization and expression of trypsinogen and of trypsin in medaka testis**.** ***Zoological Science*** (2014) 31(12):840-848.

29. PI Rajapaksha, MBD Lakmali, SWMB Dunuwille, P Janaththani1, **S Rajapakse**, MPB Wijayagunawardane, SP Kodithuwakku, SDSS Sooriyapathirana. A DNA fingerprinting scheme to establish the identity of semen samples of cattle breeds in artificial insemination programs of Sri Lanka. ***Wayamba Journal of Animal Science***. (2014). Number 1396194458. 947-954.

30. Boon Peng Chang, Hazizan Md Akil, Ramdziah Bt Md Nasir, IMCCD. Bandara, **Sanath Rajapakse.** The Effect of ZnO Nanoparticles on the Mechanical, Tribological and Antibacterial Properties of UHMWPE. ***Journal of Reinforced Plastics and Composites*** (2014) 33, 674-686.

31. AIS Priyadarshan, SP Senanayake, MP Jayathilleke, **S Rajapakse** . Intraspecific variation of *Flueggea leucopyrus* Willd. Grown in Sri Lanka and establishing a suitable propagation system. ***Journal of Science of the University of Kelaniya*** (2014) 9. 15- 25.

32. AIS Priyadarshan, SP Senanayake, MP Jayathilleke, **S Rajapakse**. Development of suitable propagation systems for *Tephrosia* spp. in Sri Lanka. ***Journal of Science of the University of Kelaniya*** (2014) 9. 39-45.

33. WGIU Rathnayake, H Ismail, A Baharin, IMCCD Bandara, **Sanath Rajapakse**. Enhancement of the Antibacterial Activity of Natural Rubber Latex Foam by the Incorporation of Zinc Oxide Nanoparticles. ***Journal of Applied Polymer Science***, (2014). (Published online – DOI: 10.1002/APP.39601)

34. AGND Darsanasiri, WGIU Rathnayake, **Sanath Rajapakse**, RMG Rajapakse. *In-situ* Deposition of Silver Nanoparticles of Different Colors on Cotton for Imparting Antibacterial and Antifungal Properties. (2013) ***Ceylon Journal of Science (Physical Sciences)*** 17. 31-39.

35. Srimala Perera, Bharat Bhushan, Rathnayake Bandara, Gamini Rajapakse, **Sanath Rajapakse,** Chaturanga Bandara. Morphological, antimicrobial durability and physical properties of untreated and treated textiles using silver-nanoparticles, ***Colloids and Surfaces A: Physicochemical and Engineering Aspects*** (2013). 436:975-989.

36. Indrajith Rathnayake, Hanafi Ismail, Baharin Azahari, Chathuranga Bandara, **Sanath Rajapakse**. Novel method of incorporating silver nanoparticles into natural

rubber latex foam. ***Polymer-Plastics Technology and Engineering*** (2013) 52. 885-891.

37. Katsueki Ogiwara, Chika Fujimori, **Sanath Rajapakse**, Takayuki Takahashi. Characterization of Luteinizing Hormone and Luteinizing Hormone Receptor and Their Indispensable Role in the Ovulatory Process of the Medaka. ***PLoS ONE,*** 2013 8(1): e54482. doi: 10.1371/journal.pone.0054482.

38. **Sanath Rajapakse**, Prabasheeni Iddamalgoda, Rukmal Ratnayake, BM Ratnayake Bandara, DSA Wijesundara and Veranja Karunaratne. Evaluation of species limits of *Hortonia* by DNA barcoding. ***Journal of the National Science Foundation of Sri Lanka***, 2012. 40 (4). 345-349.

39. Indrajith Ratnayake, Hanafi Ismail, Baharin Azahari, Nalin Dhammika Darsanasiri, Sanath **Rajapakse.** Synthesis and Characterization of Nano Silver Incorporated Natural Rubber Latex Foam. ***Polymer-Plastics Technology and Engineering,*** 2012. 51 (6), 605-611.

40. WGIU Rathnayake, H Ismail, A Baharin, AGND Darsanasiri and Sanath **Rajapakse.** Synthesis and Characterization of Nano Silver Based Natural Rubber Latex Foam for Imparting Antibacterial and Anti-Fungal Properties. ***Polymer Testing,*** 2012. 31, 586-592.

41. Chika Fujimori, Katsueki Ogiwara, Akane Hagiwara, **Sanath Rajapakse**, Atsushi Kimura and Takayuki Takahashi. Expression of cyclooxygenase-2 and prostaglandin receptor EP4b mRNA in the ovary of the medaka fish, *Oryzias latipes:* Possible involvement in ovulation ***Molecular and Cellular Endocrinology,*** 2011. 332 (1-2): 67-77.

42. **Sanath Rajapakse** and Takayuki Takahashi. Expression and enzymatic characterization of human kallikrein 14. ***Zoological Science,*** 2007. 24, 774-780.

43. **Sanath Rajapakse,** Noriko Yamano, Katsueki Ogiwara, Kensaku Hirata, Sumio Takahashi and Takayuki Takahashi. Estrogen dependant expression of the tissue kallikrein gene (*Klk1*) in the mouse uterus and its implications for endometrial tissue growth. ***Molecular Reproduction and Development,*** 2007. 74, 1053-1063.

44. **Sanath Rajapakse,** Katsueki Ogiwara, Noriko Yamano, Atsushi Kimura, Kensaku Hirata, Sumio Takahashi and Takayuki Takahashi. Characterization of mouse tissue kallikrein 5. ***Zoological Science,*** 2006. 23, 963-968.

45. **Sanath Rajapakse,** Katsueki Ogiwara, Naoharu Takano, Akihiko Moriyama and Takayuki Takahashi. Biochemical characterization of human kallikrein 8 and its possible involvement in the degradation of extracellular matrix proteins. ***FEBS letters,*** 2005. 579, 6879-6884.

46. Kenji Takahashi, Senarath BP Athauda, Koji Matsumoto, **Sanath Rajapakshe**, Masayuki Kuribayashi, Masaki Kojima, Nobuko Kubomura, Akihiro Iwamatsu, Chiaki Shibata, and Hideshi Inoue. Nepenthesin, a unique member of a novel subfamily of aspartic proteinases: enzymatic and structural characteristics. ***Current Protein and Peptide Science***. 2005. 6, 513-525.

47. Senarath BP Athauda, Koji Matsumoto, **Sanath Rajapakshe**, Masayuki Kuribayashi, Masaki Kojima, Nobuko Kubomura, Akihiro Iwamatsu, Chiaki Shibata, Hideshi Inoue and Kenji Takahashi. Enzymic and structural characterization of nepenthesin, a unique member of a novel subfamily of aspartic proteinases. ***Biochemical Journal.*** 2004. 381, 295-306.

48. Junji Ohnishi, Jyunko Yokota, **RGSC Rajapakse,** Eriko Ohnishi, Takayuki Kudo, Shin-Ichiro Wada and Takayuki Takahashi. Activity of an enzyme converting single chain tissue type plasminogen activator to the two-chain form in preovulatory human follicular fluid. ***Molecular Reproduction and Development***. 2004. 67, 178-185.

CONFERENCE PAPERS

1. BSB Karunathilaka, YA Priyadarshana, **S Rajapakse**, ULB Jayasinghe, A Wickramasinghe. Antimicrobial Activity and Brine Shrimp Lethality of Some Selected Medicinal Plants. Proceedings of RSU International Research Conference, Thailand. (2016) Pp. 7-14.

2. CS Hettiarachchi, PS Kumar, CL Abayasekara, **S Rajapakse,** SA Kulasooriya, E.M.H.G.S. Ekanayake, RKGK Kosala. (2014). Response of *Glycine max* to inoculation with rhizobial strains isolated from crop wild relatives of *Vigna* spp., *Crotalaria* spp. and *Mimosa* spp. Jaffna University International Research Conference (JUICE) Full paper proceedings publications, Jaffna University, Jaffna, Sri Lanka. March, 2014, 258 – 262.

3. W.G.I.U. Rathnayake, H.Ismail, A. Baharin, A.G.N.D. Darsanasiri, **Sanath Rajapakse** Antimicrobial Activities of Various Colors of Silver Nanoparticles. Proceeding of MAMIP 2012 Asian International Conference on Materials, Minerals and Polymer. (2012). Pp.147-153

4. Katsueki Ogiwara, **Sanath Rajapakse** and Takayuki Takahashi. Characterization of collagenase expressed in the ovary of the medaka, *Oryzias latipes*. Trends in Comparative Endocrinology, Proceedings of the fifth International Congress of Asia and Oceania Society for Comparative Endocrinology, Nara, Japan (2004). Pp 385-387.

5. Naoharu Takano, Katsueki Ogiwara, **Sanath Rajapakse** and Takayuki Takahashi. The plasminogen activator/plasmin system in the medaka: comparison with the mammalian system. Trends in Comparative Endocrinology, Proceedings of the fifth International Congress of Asia and Oceania Society for Comparative Endocrinology, Nara, Japan (2004). Pp 381-384.

REFEREED ABSTRACTS IN CONFERENCE PROCEEDINGS

1. SMNS Samarakoon, **RGSC Rajapakse**. (2019) Physiological and genetic characterization of rhizobial populations inhabiting *Gliricidia sepium* in selected locations of Polonnaruwa District, Sri Lanka. Proceedings of the PGIS Research Congress, Sri Lanka. P.82.
2. MADKS Mallikarachchi, JAMS Jayatilake, **RGSC Rajapakse**. (2019) Prevalence of Helicobacter pylori in the oral cavities of a group of Sri Lankan dental students with clinical exposure. Proceedings of the PGIS Research Congress, Sri Lanka. P.86.
3. SW Meepegamage, G Seneviratne, **RGSC Rajapakse**. (2019) Biofilm Biofertilizer mediated restoration of nitrogen fixers in the soil plant system in paddy cultivation. Proceedings of the PGIS Research Congress, Sri Lanka. P.102.
4. CB Wijetunga, **RGSC Rajapakse**, MNS Kottegoda, G. Priyadarshane, ADLC Perera. (2019) Nanohybrid based zero -valent copper nanoparticles impregnated activated carbon for antimicrobial applications. Proceedings of the PGIS Research Congress, Sri Lanka. P.124.
5. J Janeni, NM Adassooriya, S Perera, **RGSC Rajapakse**, PVT Weerasinghe, UGNS Udapitiya, MADKS Mallikarachchi. (2019) Electrospun poly (vinyl alcohol) nanofiber mats loaded with *Terminalia chebula* fruit extract- Preparation, characterization and antimicrobial activity. Proceedings of the PGIS Research Congress, Sri Lanka. P.137.

6. SP Karunaratne, MMD Anuradha, P Ekanayake, **RGSC Rajapaksha**, VN Seneviratne. (2018) Electricity generation from soil. Proceedings of the PGIS Research Congress, Sri Lanka. P.96.

7. WRAPJ Ratnayake, JW Damunupola, ALCJ Liyanage, **RGSC Rajapaksha**, ACA Jayasundera. (2018) Cutting edege protein and carbohydrate base materails for drug delivery. Proceedings of the PGIS Research Congress, Sri Lanka. P.94.

8. VRRU Udapamunuwa, PWI Nawanjana, **RGSC Rajapakse**.(2018) Physiological characterization and genetic diversity assessment of the Rhizobial populations inhabiting *Gliricidia sepium* of Anuradhapura district, Sri Lanka. Proceedings of the PGIS Research Congress, Sri Lanka. P.65.

9. WMDA Wijesundara, JAMA Jayatilake, JAMS Jayatilake, **RGSC Rajapakse**. (2018) Detection of *mecA* gene and methicillin resistance in Staphylococci isolated from human oral cavity. Proceedings of the PGIS Research Congress, Sri Lanka. P.62.

10. PWI Nawanjana, **Sanath Rajapakse**. (2018) Preliminary physiological characterization and genetic diversity assessment of the Rhizobial populations inhabiting *Gliricidia sepium* in selected locations of Ampara district, Sri Lanka. Proceedings of the 38th Annual Sessions of the Institute of Biology, Sri Lanka. P. 36

11. RWKM Senevirathna, VN Seneviratne, **Sanath Rajapakse**. (2018) Partial purification and characterization of chitinases from pitcher fluid of *Nepenthes distillatoria*. Proceedings of the 38th Annual Sessions of the Institute of Biology, Sri Lanka. P. 37.

12. S. N. J.Pathirana, M.Kajan, D.A.S. Elvitigala, G. H. C.M.Hettiarachchi, C.M. Nanayakkara, **R. G. S. C. Rajapakse** and N. V. Candrasekharan (2018). Identification and *in-sillico* characterization of a novel *Hin*dIII isoschizomer from a *Pseudomonas* spp. Proceedings of the 3ed International Conference on Bioscience and Biotechnology. P. 21

13. TSGSB Wijayarathna, S. **Rajapakse**. Occurrence of serine protease inhibitory activity in the bark extract of *Garcinia quaesita.* Proceedings of the Peradeniya University International Research Sessions (iPURSE), Sri Lanka (2017) P. 410.

14. APDT Ranathunga RDGA Ranasinghe, VN Seneviratne, M Meegaskumbura, **S Rajapakse.** Partial purification and characterization of the foam nest proteins of *Polypedates maculatus*. Proceedings of the 37th Annual Sessions of the Institute of Biology. (2017). P.

15. MGGSN Thilakarathna, URPT Rajapaksha, SP Dunuweera, **Sanath Rajapakse**, Indira De Silva, RMG Rajapakse. Comparison of antimicrobial activity of antibiotic impregnated and Zinc Oxide nanoparticle impregnated cotton gauze. Proceedings of the Postgraduate Institute of Science Research Congress, University of Peradeniya. (2017). P. 78.

16. RDGA Ranasinghe, APDT Ranathunga, YA Haleema, VN Seneviratne, M Meegaskumbura, **S Rajapakse**. Analysis and characterization of foam nest proteins of *Polypedates cruciger*. Proceedings of the Postgraduate Institute of Science Research Congress, University of Peradeniya. (2017). P. 94.

17. BNLD Rangama, CL Abayasekara, DM Gordon, **S Rajapakse**. Phylogenetic group distribution of human faecal *Escherichia coli* in Kandy District, Sri Lanka. Proceedings of the Postgraduate Institute of Science Research Congress, University of Peradeniya. (2017). P. 106.

18. CA Thennakoon, RBSD Rajapakshe, WM somasiri, RMG Rajapakse, **RGSC Rajapakse**. Synthesis of superhydrophobic coatings for fabric and wood. Proceedings of the Postgraduate Institute of Science Research Congress, University of Peradeniya. (2017). P. 152.

19. A S T M R A Kadigamuwa, R M B T Rathnayake, S N J Pathirana, **R G S C Rajapakse**, W W P Rodrigo, C M Nanayakkara, G H C M Hettiarachchi, and N V Chandrasekharan (2017). Screening and partial characterization of Type II Restriction Enzymes from Soil Bacteria. Proceedings of the 1st International Research Symposium, Uwa Wellassa University, Sri Lanka. P. 198

20. PMH Sandamali, SP Senanayake,SP Benjamin, **S Rajapakse**, NP Athukorala, (2017). Host Plant Preference of Genera *Dendrobium* and *Bulbophyllum* (Family: Orchidaceae) in Sri Lanka. International Research Symposium on Pure and Applied Sciences, 2017 Faculty of Science, University of Kelaniya, Sri Lanka. P. 65.

21. S. N. J.Pathirana, G. H. C.M.Hettiarachchi, C.M. Nanayakkara, **R. G. S. C. Rajapakse**, N. V. Chandrasekharan (2016). Isolation and characterization of Restriction Enzymes from Sri Lanka. Proceedings of the 16th annual session of Science Council of Asia. P. 170

22. BDS Muthusinghe, CD Gamage, **RGSC Rajapakse**, TM Gamage, P Fernando, N. Koizumi, K. Shiokawa, K. Yoshimatsu, J. Arikawa. Carrier status of pathogenic leptospires among swine slaughtered for human consumption in Sri Lanka. Proceedings of the Peradeniya University International Research Sessions (iPURSE), Sri Lanka (2016) P. 239.

23. HAI Perera, US Athapattu, **S Rajapakse**, S Jayasinghe. Bio assay guided isolation of antibacterial compunds from qwhole plant extract of *Eleusine indica*. Proceedings of the Peradeniya University International Research Sessions (iPURSE), Sri Lanka (2016) P. 366.

24. T Tharshika, R Arrosan, KWTR Kularathna, **S Rajapakse**. Characterisation of *Rhizobium* Sp. in *Cletoria ternatea* L from five different districts of Sri Lanka. Proceedings of the Peradeniya University International Research Sessions (iPURSE), Sri Lanka (2016) P. 372.

25. TCMF Karunarathna, NNH Karannagoda, VN Seneviratne, **S Rajapakse**. Occurrence of serine protease inhibitory activity in the bark extract of *Entada pursaetha*. Proceedings of the Peradeniya University International Research Sessions (iPURSE), Sri Lanka (2016) P. 377.

26. IW Kularathne, AC Ratnaweera, CS Kalpage, **S Rajapakse**. Comparison of sugar content in six selected Sri Lankan fruits. Proceedings of the Postgraduate Institute of Science Research Congress, University of Peradeniya. (2016). P. 74.

27. TSGSB Wijayarathna, NNH Karannagoda, **S Rajapakse**. Aspartic protease inhibitory activity of *Garcinia quaesita*. Proceedings of the Postgraduate Institute of Science Research Congress, University of Peradeniya. (2016). P. 77.

28. AMTK Bandara, SBP Athauda, **S Rajapakse**. Purification and characterization of a 66 kDa DNA digesting enzyme from *Geobacillus* sp. living in hot water springs in Trincomalee, Sri Lanka. Proceedings of the Postgraduate Institute of Science Research Congress, University of Peradeniya. (2016). P. 82.

29. PMH Sandamali, SP Senanatyake, SP Benjamin, **S Rajapakse**, NP Athukorale. Diversity of orchid genera *Dendrobium* and *Bulbophyllum* in selected locations in

Sri Lanka. Proceedings of the Postgraduate Institute of Science Research Congress, University of Peradeniya. (2016). P. 85.

30. R Arrosan, T Tharshika, KWTR Kularathna, **S Rajapakse**. Characterization of *Rhizobium* sp. in *Mimosa pudica* from five districts of Sri Lanka. Proceedings of the Postgraduate Institute of Science Research Congress, University of Peradeniya. (2016). P. 89.

31. D Muthusinghe, C Gamage, T Gamage, N Koizumi, P Fernando, **S Rajapakse**. Detection of pathogenic leptospires among swine slaughtered for human consumption in Sri Lanka. Book of abstracts. Fourth conference on Sri Lanka-Japan collaborative Research. University of Peradeniya, Sri Lanka. (2015) P. 31

32. SNJ Pathirana, **RGSC Rajapakse**, CM Nanayakkara, GHCM Hettiarachchi, NV Chandrasekaran. Screening of Bacteria for Restriction Enzymes. Proceedings of the Sri Lanka Association for the Advancement of Science, part I, (2015), P. 137.

33. CA Thennakoon, RBSD Rajapakshe, IMCCD Bandara, MMMGPG Mantilaka, PMG Rajapakse, **RGSC Rajapakse**. Surface modification of textile materials for super hydrophobic properties. Proceedings of the Postgraduate Institute of Science Research congress, University of Peradeniya. (2015). P.128.

34. JB Epakanda, **RGSC Rajapakse**, RMG Rajapakse. Storage, durability and antibacterial efficacy of Antibiotic coated gauze. Proceedings of the Postgraduate Institute of Science Research Congress, University of Peradeniya. (2015). P. 105.

35. YA Priyadarshana, MP Thomas, A Wickremasinghe, S Jayasinghe, **RGSC Rajapakse**. Antimicrobial, Antioxidant, cytotoxic activity and Phenolic content of *Acrotrema uniflorum.* Proceedings of the Postgraduate Institute of Science Research congress, University of Peradeniya. (2015). P. 101.

36. V Ajeethan, **S Rajapakse**. Occurrence of serine protease inhibitory activity in the bark extract of *Lennea coromandelica*. Proceedings of the International Symposium on Methods for Studying Drug Metabolism and Transport and African Traditional Medicines, Pretoria, South Africa (2015). HMP 01.
37. NNH Karannagoda, M Ishan, **S Rajapakse**. Partial purification and characterization of serine protease inhibitors from *Semecarpus nigro-viridis.* Proceedings of the Peradeniya University International Research Sessions (iPURSE), Sri Lanka (2015) P. 316.

38. KWTR Kularathna, CS Hettiarachchi, **S Rajapakse.** Characterization of physiological and genetic diversity of Rhizobium sp. in *Alysicarpus vaginalis* in different climatic zones of Sri Lanka. Proceedings of the Peradeniya University International Research Sessions (iPURSE), Sri Lanka (2015) P. 319.

39. RABS Ranasinghe, YA Priyadarshana, MDM Chamikara, DSA Wijesundara, **S Rajapakse**, A Wickramsinghe. Antimicrobial, antioxidant, cytotoxic activity and phenolic content of *Tetracera sarmentosa*. Proceedings of the Peradeniya University International Research Sessions (iPURSE), Sri Lanka (2015). P. 320.

40. S N J Pathirana, **R G S C Rajapakse**, C M Nanayakkara, G H C M Hettiarachchi, and N V Chandrasekharan (2015). Screening of bacteria for restriction enzymes. Proceedings of the Sri Lanka Association for the Advancement of Science P. 137

41. S Diyabalanage, T Nawarathna, **S Rajapakse**, R Chandrajith. Selenium, Arsenic and Cadmium in native rice varieties in Sri Lanka. National Conference on Indigenous Systems of Medicine. Bandaranaike Memorial Ayurvedic Research Institute, Navinna, Maharagama (2015) P.40

42. AIS Priyadarshan, SP Senanayake, MP Jayatilleke, **S Rajapakse.** Preliminary phytochemical screening of *Flueggea leucopyrus* Willd. (Ver. Katupila) leaves in Sri Lanka. Proceedings of 2nd international conference on Ayurveda, Unani, siddha & Traditional medicine, Institute of Indegeneous medicine, Univesrity of Colombo, Sri Lanka (2014). P. 136.

43. M. Ishan, MDM Chamikara, NPS Hasna, NNH Karannagoda, VDW Kasthuriarachchi, **S Rajapakse**. Studies on serine protease inhibitors in the bark extract of *Derris parviflora*. Proceedings of the Third annual Science research Sessions of the South Eastern University of Sri Lanka (2014) P. 03.

44. PI Rajapaksha, SWMB Dunuwille, P Janaththani, US Gunarathne, S Hewawasam, **S Rajapakse**, MPB Wijayagunawardane, S Kodithuwakku, SDSS Sooriyapathirana. Identification of QTLs for milk production traits of dairy cattle breeds in Sri Lanka – A pilot study. Proceedings of the Peradeniya University International Research Sessions (iPURSE), Sri Lanka (2014) P.198.

45. SWMB Dunuwille , TN Premachandra, P Rajapaksha, **S Rajapakse,** BC Jayawardane, SMC Himali, S Kodithuwakku, SDSS Sooriyapathirana (2014) Development of a PCR based genotyping procedure to identify the adulterations to Chicken and wild boar meat in the Sri Lankan meat market. Proceedings of the Peradeniya University International Research Sessions (iPURSE), Sri Lanka (2014) P. 203

46. S Jabar, CJ Bandara, BMR Bandara, A Wickremasinghe, V Karunaratne, **S Rajapakse,** DSA Wijesundara. Antimicrobial activity of *Schumacheria angustifolia* and *Schumacheria castaneifolia*. Proceedings of the Peradeniya University International Research Sessions (iPURSE), Sri Lanka (2014) P. 481

47. CS Hettiarachchi, CL Abayasekara, PS Kumar, S Rajapakse, SA Kulasooriya, EMHGS Ekanayake, RKGK Kumara, HMAC Gunaratna. Evaluation of single strain and multistrain rhizobial inoculants for Soybean (*Glycine max*) cultivation. Proceedings of the Peradeniya University International Research Sessions (iPURSE), Sri Lanka (2014) P. 609

48. VDW Kasthuriarachchi, SDSS Sooriyapathirana, A Wickramasinghe , RMCJ Bandara, BMR Bandara , V Karunaratne, DS Wijesundara, **RGSC Rajapakse.** (2014) Morphological characterization and DNA fingerprinting reveals there are

three distinct species in Genus *Schumacheria* Sp. Proceedings of the Peradeniya University International Research Sessions (iPURSE), Sri Lanka (2014) P.581

49. Chandima Dhanapala, Praveen Kathare, Sunethra Dharmasiri, **Sanath Rajapakse**, Pradeepika saputhanthri, Nihal Dharmasiri. The changing paradigms of auxin Signaling: Involvement of Calcium. Proceedings of the Peradeniya University International Research Sessions (iPURSE), Sri Lanka (2014) P.616.

50. RS Hewawasam, MDCD Jayawardana, C Udawatte, USK Weliwegamage, S Rajapakse, S Sotheeswaran. Immobilization of selected microbes on certain solid supports for fermentation process. Proceedings of the Postgraduate Institute of Science Research congress, University of Peradeniya. (2014) P.5.

51. CS Hettiarachchi, CL Abayasekara, P Sarawanakumar, S Rajapakse, SA Kulasooriya, EMHGS Ekanayake, RKGK Kumara, HMAC Gunaratna. Single strain and multi strain rhizobial inoculants for black gram (Vigna mungo) cultivation. Proceedings of the Postgraduate Institute of Science Research Congress, University of Peradeniya. (2014). P. 18.

52. PMH Sandamali, SP Senanayake, SP Benjamin, S Rajapakse, NP Athukorala. Clustering pattern of dour endemic species of genus Bulbophyllum (Orchidaceae) in Sri Lanka with respect to their phonetics. Proceedings of the Postgraduate Institute of Science Research Congress, university of Peradeniya. (2014). P. 24.

53. AMTK Bandara, SBP Athauda, JGS Ranasinghe, S Rajapakse. Purification and Characterization of a deoxyribonuclease from bacteria living in hot springs in Trincomalee, Sri Lanka. Proceedings of the Postgraduate Institute of Science Research Congress, university of Peradeniya. (2014). P. 66.

54. P Rajapaksha, SWMB Dunuwille, **S Rajapakse**, S Kodithuwakku, SDSS Sooriyapathirana (2014) PCR based DNA fingerprinting for identification of five cattle breeds used as male parents in artificial insemination programs. Proceedings of the International Conference of Agricultural Sciences. Faculty of Agricultural Sciences, Sabaragamuwa University of Sri Lanka. (2014) P.36.

55. KMGKV Wattarantenne, P Janaththani, SWMB Dunuwille, CS Hettiarachchi, **S Rajapakse,** CL Abayasekara CL, SDSS Sooriyapathirana. Stress tolerance of Rhizobium strains isolated from *Psophocarpustetragonolobus* (winged bean) root nodules. International Conference of Agricultural Sciences. Sabaragamuwa University of Sri Lanka. (2014). P.96

56. BDS Jayawardana, HKI Perera, **S Rajapakse**. Protease inhibitory Activity of some Medicinal Plants in Sri Lanka proceedings of the Peradeniya University Research Sessions (2013)

.

57. CS Hettiarachchi, CL Abayasekara, **S Rajapakse**, SA Kulasooriya, P Sarvanakumar. Screening of Stress Tolerant Rhizobial Isolates From Wild Legumes Growing in the Southern Coastal Region of Sri Lanka. Proceedings of the 33rd Annual Sessions. Institute of Biology, Sri Lanka. (2013). P. 49.

58. C Dhanapala, PK Kathare, S Dharmasiri, **S Rajapakse,** P Saputhanthri, N Dharmasiri**.** Complex regularion of auxin/IAA proteins: More than one way**.** Proceedings of the 33rd Annual Sessions. Institute of Biology, Sri Lanka. (2013). P. 52.

59. SMWB. Dunuwille, TN. Premachandra, P. Rajapaksha, **S. Rajapakse**, SDSS. Sooriyapathirana, BC. Jayawardena, SMC. Himali, S. Kodituwakku. Development of a PCR based genotyping procedure to identify the adulterations to beef in Sri Lankan meet market. Proceedings of the Research symposium of Uwa wellassa University. (2013). P. 7-9.

60. AIS Priyadarshan, SP Senanayake, MP Jayathileke, **RGSC Rajapakse**. Phenetic variation and phenolic composition of leaves of *Flueggea leucopyrus* willd. (vern: Katupila) collected from different climatic zones in Sri Lanka. Annual Research symposium. FGS, Univeristy of Kelaniya. 2013. P. 18.

61. AIS Priyadarshan, SP Senanayake, MP Jayathileke, **RGSC Rajapakse.** Development of suitable propagation systems for Tephrosia spp. and *Flueggea leucopyrus* in Sri Lanka. Annual Research symposium. FGS, Univeristy of Kelaniya. 2013. P. 19

62. RS Hewawasam, **RGSC Rajapakse**, USK Weliwegamage, S Sotheeswaran. Ethanol production by microbial fermentation using Over-Ripe Bananas. Chemistry in Sri Lanka. Vol. 30 (02), 2013. P.17.

63. SNJ Pathirana, Preminds Samaraweera, JGS Ranasinghe, **Sanath Rajapaksha.** Isolation of lipolytic fungi and partial purification of lipases. Proceedings of the RUSL Third Annual Research Symposium. (2013). P 33.

64. RMCJ. Bandara, AMCSB. Alahakoon, BMR. Bandara, A Wickramasinghe, N. Karunaratne, V Karunaratne, **RGSC. Rajapakse**, DSA. Wijesundara. Total polyphenol content and antimicrobial activity of *Schumacheria castaneifolia* and *Schumacheria alnifolia.* Proceedings of the Peradeniya University Research Sessions. (2012). P. 177.

65. K Vasanthy, RMG. Rajapakse, **Sanath Rajapakse**, GRA. Kumara, HMN. Bandara, W MNMB. Wanninayake. Antimicrobial efficacy of nano Zinc Oxide coated cross linked cellulose. Proceedings of the Peradeniya University Research Sessions. (2012). P. 196.

66. BADH. Beligala, **Sanath Rajapakse**. Studieas of protease inhibitors of the bark extract of *Spondias xerophyla*. Proceedings of the Peradeniya University Research Sessions. (2012). P. 199.

67. KNK. Ranasinghe, CS. Hettiarachchi, **Sanath Rajapakse.** pH and salinity tolerance and genetic diversity of Rhizobia in *Pueraria phaseoloides* from three climatic zones of Sri Lanka. Proceedings of the Peradeniya University Research Sessions. (2012). P. 246.

68. IMCCD. Bandara, RMG. Rajapakse and **S Rajapakse**. Chemically bound silver nanoparticles on cotton textiles exhibiting efficient inhibition of *Escherichia coli* and *Staphylococcus aureus.* Proceedings of the Peradeniya University Research Sessions (2011) P. 164.

69. Apsara Herath, **Sanath Rajapakse**. Aspartic protease inhibitory activity of Anacardium occidentale. Chemistry in Sri Lanka. Vol.28 (2). (2011) P.22

70. AGND Darsanasiri, WGIU Rathnayake, RMG. Rajapakse and **S Rajapakse**. Fabrication and Characterization of antimicrobial cotton fabric by silver nanoparticles. Proceedings of the Peradeniya University Research Sessions (2010) Pp.66-68.

71. NADJ Bandara, **S Rajapakse** and SBP. Athauda. Partial purification and characterization of a trypsin inhibitor from *Tamarindus indica.* Proceedings of the Peradeniya University Research Sessions (2010) Pp.389-390.

72. AMTK Bandara, **S Rajapakse**, H Inoue and SBP Athauda. Isolation of thermophilic bacteria and its deoxyribonucleases from hot springs at Trincomalee. Proceedings of the Peradeniya University Research Sessions (2010) Pp.391-393.

73. WMST Weerasekara, AGND Darsanasiri, **RGSC Rajapakse** and BMR Bandara. Bioactivity of alkyl esters and Mg/Al layered double hydroxide (LDH) intercalate of gallic acid. Proceedings of the Peradeniya University Research Sessions (2010) Pp.432-434.

74. GUL Ratnapala, N Egodawela and **S Rajapakse**. Serine protease inhibitory of *Tetracera sarmentosa*. Proceedings of the Peradeniya University Research Sessions (2010) Pp.464-466.

75. MFF Munira, **S Rajapakse** and VN Seneviratne. Investigation of enhancement in thermal stability of trypsin in modified Mg/Al layered double hydroxides. Proceedings of the Peradeniya University Research Sessions (2010) Pp.466-469.

76. ML Silva, CS Hettiarachchi and **S Rajapakse**. Molecular diversity of mezorhizobial populations of *Mimosa pudica* found in Peradeniya University park. Proceedings of the Peradeniya University Research Sessions (2010) Pp.470-472.

77. WGIU. Rathnayake, AGND Darsanasiri RMG Rajapakse and **RGS Rajapakse.** Smart textiles for defense applications. Proceedings of the Annual Symposium, General Sir John Kotelawala Defense Academy (2010) Pp.28-30.

78. DJ Udawatte, I Koswatta, SBP Athauda and **S Rajapakse.** Partial purification and characterization of an acid phosphatase from the pitcher fluid of *Nepenthes distillatoria.* Proceedings of the Peradeniya University Research Sessions (2009) Pp.313-315

79. SD Udayanga, SBP Athauda, P Samaraweera and **S Rajapakse.** Partial purification and characterization of serine protease inhibitors from the seeds of endemic wild legume *Dialium ovoideum* Proceedings of the Peradeniya University Research Sessions (2009) Pp.316-318

80. Piumal Wijesinghe, EA Prabodha Ekanayake, **Sanath Rajapakse** and Senarath BP Athauda. Partial purification and molecular mass determination of deoxyribonucleases from Bandura (*Nepenthes distillatoria*). Proceedings of the Peradeniya University Research Sessions (2009) Pp. 344-346

81. Sewwandi Ratnayake, **Sanath Rajapakse** and Senarath BP Athauda. Partial purification and characterization of a serine protease inhibitor from the seed extract of *Macroptelium lathyroides.* Proceedings of the Sri Lanka Association for the Advancement of Science (2009) P.134

82. EA Prabodha Ekanayake Piumal Wijesinghe, Preminda Samaraweera, **Sanath Rajapakse** and Senarath BP Athauda. Further purification and determination of molecular masses of deoxyribonucleases from *Nepenthes distillatoria* and effect of metal ions on their activities. Proceedings of the Sri Lanka Association for the Advancement of Science (2009) p.135

83. Prabasheeni Iddamalgoda, Sanath Rajapakse, Rukmal Ratnayake, BM Ratnayake Bandara, DSA Wijesundara and Veranja Karunaratne. Differentiation of *Hortonia ovalifolia* and *Hortonia floribunda* by DNA barcoding. Proceedings of the Sri Lanka Association for the Advancement of Science (2008) p.96

84. D Chin, **S. Rajapakse** and SBP Athauda. Thermally stable deoxyribonucleases from *Nepenthes distillatoria* (Bandura). Annual Research Sessions, University of Peradeniya (2007). 53-54.

85. WALD Wickramasinghe, S Sotheeswaran, USK Weliwegamage, **S Rajapakse** and CS Kalpage. Study of cassava starch hydrolysis by α- amylase and an airborne mould culture. Annual Research Sessions, University of Peradeniya (2007). 193-195.

86. Dasmanthie Chin, **Sanath Rajapakse** and Senarath BP Athauda. Occurrence of a deoxyribonucleolytic activity in the pitcher juice of *Nepenthes distillatoria*. CHEMTEC 2007, Annual sessions of the Institute of Chemistry Ceylon.(2007). P.44

87. Takashi Suzuki, **Sanath Rajapakse**, Katsueki Ogiwara and Takayuki Takahashi. Analysis of kallikrein like protein in the reproductive organs of the Medaka. Proceedings of the 31th annual meeting of the Japan Society for Comparatively Endocrinology. Sapporo, Japan (2006). P. 41

88. **Sanath Rajapakse,** Katsueki Ogiwara, Naoharu Takano, and Takayuki Takahashi. Analysis of medaka kallikrein: comparison with mouse kallikreins. Proceedings of the 30th annual meeting of the Japan Society for Comparatively Endocrinology. Kumamoto, Japan (2005). P.49.

89. **Sanath Rajapakse,** Katsueki Ogiwara and Takayuki Takahashi. Biochemical and enzymatic characterization of human kallikrein 8. Proceedings of the 78th annual meeting of the Japanese Biochemical Society, Kobe, Japan (2004). P.914.

90. **Sanath Rajapakse,** Katsueki Ogiwara, Naoharu Takano, and Takayuki Takahashi. Biochemical and enzymatic characterization of mouse glandular kallikrein 6. Proceedings of the 76th annual meeting of the Zoological Society of Japan, Tsukuba, Japan (2005).

91. **Sanath Rajapakse,** Katsueki Ogiwara, Naoharu Takano, and Takayuki Takahashi. Cloning of a novel serine protease from medaka ovary. Proceedings of the 75th annual meeting of the Zoological Society of Japan, Kobe, Japan (2004). P.1331.

92. Naoharu Takano, Katsueki Ogiwara, **Sanath Rajapakse** and Takayuki Takahashi. Analysis of plasminogen activator/plasmin system in the reproductive organs of *Oryzias latipes.* Proceedings of the 75th annual meeting of the Zoological Society of Japan, Kobe, Japan (2004). P. 1331.

93. Koji Matsumoto, Senarath BP Athauda, **Sanath Rajapakse**, Masayuli Kuribayashi et al. Nepenthesin, a unique member of a novel subfamily of aspartic proteinases. Enzymatic and molecular characterization. Proceedings of the 3rd general meeting of the International Proteolysis Society. Nagoya, Japan. (2003). P.318.

94. **RGSC Rajapakse,** Senarath BP Athauda, SR Wijeratne, and Kenji Takahashi., Partial amino acid sequence of minor acid proteinase from *Nepenthes distillatoria* L. Proceedings of the Sri Lanka Association for the Advancement of Science, part I, (2002), P. 244.

95. **RGSC Rajapakse,** Senarath BP Athauda, SR Wijeratne, and Kenji Takahashi., Immunohistochemical analysis of minor acid proteinase of *Nepenthes distillatoria* Proceedings of the Sri Lanka Association for the Advancement of Science, part I, (2002), P. 243.

96. **RGSC Rajapakse,** Senarath BP Athauda, SR Wijeratne, HRW Dharmaratne and Kenji Takahashi., Comparative stability of minor acid proteinase from *Nepenthes distillatoria.* Proceedings of the Sri Lanka Association for the Advancement of Science, part I, (2001), P. 256.

97. **RGSC Rajapakse** and Senarath BP Athauda., Stability of *Nepenthes* major acid proteinase at different pH values. Annual Research Sessions, Faculty of Science, University of Peradeniya (2000). P. 20.

98. **RGSC Rajapakse,** Senarath BP Athauda, HRW Dharmaratne and Kenji Takahashi., Purification and characterization of a major acid proteinase from *Nepenthes distillatoria* (Bandura). Annual Research Sessions, University of Peradeniya (1999). P. 118.

99. Senarath B.P Athauda, **RGSC Rajapakse**, HRW Dharmaratne and Kenji Takahashi., Production of antibody and histochemical analysis of *Nepenthes* major acid proteinase. Proceedings of the Sri Lanka Association for the Advancement of Science, part I, (1999), P. 230.

100. **RGSC Rajapakse**, Senarath BP Athauda, HRW Dharmaratne and Kenji Takahashi., Proteolytic action of proteinases of *Nepenthes distillatoria* (Bandura) on natural proteins. Proceedings of the Sri Lanka Association for the Advancement of Science, part I, (1999), P. 26.

101. **RGSC Rajapakse**, Senarath BP Athauda, HRW Dharmaratne and Kenji Takahashi. Thermal stability of major acid proteinase from *Nepenthes distillatoria* (Bandura). Chemistry in Sri Lanka. Vol.16 (1). (1999) P. 40.

GENE BANK SUBMISSIONS

1. C. Fujimori, K. Ogiwara, **S. Rajapakse**, A. Kimura and T. Takahashi, *Oryzias latipes* ptgs2 mRNA for prostaglandin-endoperoxide synthase 2, complete cds. Accession No. AB516993.

2. **S. Rajapakse,** K. Ogiwara, N. Takano and T. Takahashi. *Oryzias latipes* olklkp mRNA for kallikrein like protein, complete cds. Accession # AB 242321.

3. N. Takano, K. Ogiwara, **S. Rajapakse** and T. Takahashi. *Oryzias latipes* tPA mRNA for tissue-type plasminogen activator, complete cds. Accession # AB 178522.

4. N. Takano, K. Ogiwara, **S. Rajapakse,** and T. Takahashi. *Oryzias latipes* plg mRNA plasminogen, complete cds. Accession # AB 178523.

5. S. B. P. Athauda, K. Matsumoto, S. Rajapakshe, M. Kuribayashi et al. Nepenthes gracilis nep 1 mRNA for aspartic proteinase Nepenthesin 1, complete cds. Accession # AB 11491

6. S. B. P. Athauda, K. Matsumoto, **S. Rajapakshe**, M. Kuribayashi et al. *Nepenthes gracilis* nep II mRNA for aspartic proteinase Nepenthesin II complete cds. Accession # AB 11.