|  |
| --- |
| **BATUGAHAGE DON ROHITHA PRASANTHA**(Prof. B.D.R. Prasantha) |
|   |  | **Dr.rer.agr.** [Humboldt, Berlin]***M.Sc. Agric.*** [Peradeniya Sri Lanka]***B.Sc. Agric.*** [Peradeniya, Sri Lanka]***C.Biol.*** [Sri Lanka]***F.I.Biol.*** [Sri Lanka]***Fulbright Postdoctoral Fellow*****CURRENT POSITION and EMPLOYMENT** |
| Institutional AddressDepartment of Food Science & Technology,Faculty of Agriculture, University of Peradeniya20400, SRI LANKA |  |

|  |
| --- |
| **Professor (merit) in Food Science & Technology**Department of Food Science and TechnologyFaculty of Agriculture, University of PeradeniyaSRI LANKA**OTHER EMPLOYMENT****Chairman** (2024 Oct. – to date)National Institute of Postharvest Management (NIPHM) <https://www.niphm.lk/>Ministry of Agriculture, Lands, Livestock, Irrigation, Fisheries and Aquatic ResourcesSRI LANKA  |

**ACADEMIC & PROFESSIONAL QUALIFICATIONS** |
| Home Address91/3 Medawalikade Road, Rajagiriya 10100SRI LANKAPersonal InformationPassport: N9851447NIC: 663190229VDate of birth: Nov. 14th 1966Married - Two sons  |
| Contact InformationOffice: +94 81 239 5305Home: +94 81 2385625Cell: +94 71 8075686 **Personal**: rop\_bd@yahoo.com**Institutional**:bdrp@pdn.ac.lkhttps://agri.pdn.ac.lk/fods/staff/academic\_staff\_detail/1 |  | 1999-2003: **Ph.D. Agriculture** (**Postharvest Technology**)*,* Humboldt University of Berlin, Faculty of Agriculture and Horticulture, Institute of Phytomedicine, Berlin, Germany.Grade: ***Summa Cum Laude*** **Prasantha, B.D.R.** (2003) Toxicological, biological and physiological effects of diatomaceous earths on the bean weevil *Acanthoscelides obtectus* (Say) and the cowpea weevil *Callosobruchus maculates* (F.) (Coleopter: Bruchidae). Dissertation, Houmboldt-Universitat zu Berlin 2003. Mensch & Buch Verlag, Berlin -ISBN 3-89820-49-9*(PhD Thesis*). |
| Language ProficiencySinhala: Excellent English: Excellent German: Good*C:\Users\USER\Desktop\ORCID.png https://orcid.org//*[*0000-0003-3134-0756*](https://orcid.org/0000-0003-3134-0756)Web of Sci. [G-3557-2015](https://researcherid.com/rid/G-3557-2015) |  | 1995-1997: **M.Sc. Agric**., Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka.  *(****GPA 3.8 out of 4****)* 1988-1993: **B.Sc. Agric.** Faculty of Agriculture, University of Peradeniya, Sri Lanka Grade: ***Second class upper division Honours***From 2021: **F.l.Biol** (Sri Lanka) - Institute of Biology Sri Lanka From 2016: **C.Biol** (Sri Lanka) - Institute of Biology Sri Lanka |
| **RESEARCH INTEREST WITH EXPERIENCE**Postharvest Technology of Grains, Fruits & Vegetables| CA/MA storage of Grains and Fruits| Glycemic index and Dietary fiber of grains| Bioactive compound of grains| Food Preservation and Processing  |

**TEACHING (Undergraduate and Postgraduate)**

**Undergraduate Teaching (Credit: Theory hr/Practical hr)**

BFST 1106: Unit Operation in Food Processing (1:15/00)

BFST 1205: Food Preservation (2:30/00)

BFST 3105: Food Processing for Product development (2: 30/00)

BFST 3104: Food Process Engineering (2: 20/20)

BFST 3205: Grain and Starch Products Technology (2:30/00)

BFST 3101: Postharvest Technology of Fruits & Vegetables (2:20/20)

FT 4103: Food Process Technology (1:15/00)

**Graduate Teaching (Credit: Theory hr/Practical hr)**

FT 5106: Food Preservation (2: 30/00)

FT 5107: Science and Technology of Commodity Processing (2: 30/00)

FT 5112: Food Protection Systems (2: 30/00)

FT 5222: Food Process Engineering and Unit Operation (2: 30/00)

FT 5205: Cereal Chemistry and Bakery Products Technology (3: 45/00)

**CURRICULUM DEVELOPMENT**

2021: Curriculum Revision of Bachelors’ of Biosystems Technology Degree programme, Department of Biosystems Technology, Faculty of Technology, University of Jaffna

2006-2018: B.Sc. Food Science and Technology, Faculty of Agriculture, University of Peradeniya

2006-2007: B.Sc. Agriculture Technology and Management, Faculty of Agriculture, University of Peradeniya

2021-to date: M.Sc. Food Science and Technology, Postgraduate Institute of Agriculture, University of Peradeniya

**PAST EMPLOYMENT**

2005-2020: ***Senior Lecturer*** (Promotion), Department of Food Science and Technology, Faculty of Agriculture, University of Peradeniya, Sri Lanka

2003-2005: ***Senior Lecturer*** (Contract basis) - Asian Development Bank (ADB), Department of Food Science and Technology, Faculty of Agriculture, University of Peradeniya

1996-2000: ***Research Officer*** (Permanent), Institute of Postharvest Technology, Anuradhapura, Sri Lanka

**Management at Postgraduate Institute of Agriculture (PGIA)**

1. **2006 - 2009**: **Secretary** of the Board of Study Food Science and Technology and member of the teaching panel of the Board, Postgraduate Institute of Agriculture, (PGIA) University of Peradeniya, Sri Lanka
2. **2010 - 2012 and 2022- to date**: **Member** of the Board of Study Food Science and Technology and member of the teaching panel, Postgraduate Institute of Agriculture, (PGIA) University of Peradeniya, Sri Lanka

**POSTDOCTORAL TRAINING**

2016: Faculty of Bioscience Engineering, Department of Biosystems, Division of Mechatronics-Biostatistics and Sensors (MeBios), Flanders Centre of Postharvest Technology, Katholieke Universiteit Leuven, Belgium (Supervisor: Prof. Bart Nicolai, KU, Leuven).

2012**:** United State Department of Agriculture-Research Service (**USDA-Ars)**, Pacific West Area-San Joaquin Valley Agricultural Sciences Center, Commodity Protection & Quality Research Unit, 9611 S. Riverbend Avenue, Parlier, CA 93648, USA (Supervisor: Dr. Judy Johnson –USDA-Ars).

**SCHOLARSHIP/ FELLOWSHIPS**

1999-2003: ***Dutscher Akademischer Austauschdienst*** (DAAD) by Germany (Doctoral)

2012: ***Fulbright Research Fellowship*** (Post-Doctoral) 2011/2012, USA– No. 68435430

2016: Katholieke Universiteit Leuven, Belgium, ***Specialization Scholarship*** *for Scholars from Developing Countries* (Post-Doctoral), [Specialization Research fellowship from South in Belgium, 2016](http://scholarship-positions.com/ku-leuven-specialization-research-grants-south-belgium/2015/09/04/)

**INTERNATIONAL TRAINING**

26-28 Sep. 2022: “**Technology Transfer**: Value Sharing Through Licensing Session 6: Negotiation Workshop”, Kathmandu, Nepal. Organized by U.S. Department of Commerce, Commercial Law Development Program (CLDP).

1 ‒ 3 Dec. 2020: Workshop on **Advanced Postharvest Technologies for Horticultural Crops** (Virtual Session) organized by the Asian Productivity Organization (**APO**) and hosted by the National Productivity Organization, Pakistan. (Participant ID: 19-AG-08-GE-WSP-B)

26 Oct. - 4 Nov. 2016: **USA Training** **Programme on Sri Lanka technology transfer consultations. Universities and Technology-Based Economic Development**, U.S. Department of Commerce, Commercial Law Development Program (CLDP). Alexandria, VA; Princeton, NJ; and Pittsburgh, PA, USA

1 July - 21 July 2015: **Soybean Production and Processing Technology** and Capacity Building for Developing Countries in Asia and Africa. Changsha City, Hunan Province, China

**PROFESSIONAL CONSULTATIONS FOR INTERNATIONAL ORGANIZATIONS**

2022 Dec.-Apr. 2023: **National Specialist in Post-harvest Management** and Value addition for Fruits, ***FAO*** of the United Nations (GCP/SRL/073/CPR).

01 Oct. – 30 Nov. 2008: United Nations Industrial Development Organization (**UNIDO**) as a **Technical Expert in ISO 22000 Standard** (Food Safety Management System) from in Sri Lanka (ID #: 921234 SA NO. UR/IND/08/073 (398))

**NATIONAL PATENTS & PRODUCTS**

1. **Patent Number 16410**: BDR Prasantha; Development of an Instant-Breakfast Rice from Local Rice. International Patent Classification (IPC): A23L1/182. National Intellectual Property Office of Sri Lanka
2. **Patent Number 18104**: TDP Gallage & BDR Prasantha ; Development of an Instant Avocado Powder. International Patent Classification (IPC): A23B 7/024. National Intellectual Property Office of Sri Lanka
3. **Patent for engineering design LK/1/2/11775**: Hermetic Type Grain Storage PVC Tank. National Intellectual Property Office of Sri Lanka

 **Research activity**: <https://www.youtube.com/watch?v=XFSkaaJz07k>

1. ***Comprehensive Gide to ISO 22000 Food Safety Management system,*** Virtual Comprehensive Guide to ISO 22000**©**, Food Safety Management System. Department of Food Science and Technology Faculty of Agriculture University of Peradeniya, Sri Lanka (***ISBN 978-955-51591-0-4***)

**AWARDS AND RECOGNITIONS**

2024: Annual Research Excellence Awards – 2021 and 2022,Faculty of Agriculture, University of Peradeniya

2023: National University recognized **Tier 4\*** researcher award

2022: Annual Research Excellence Award – 2020,Faculty of Agriculture, University of Peradeniya

2020: Annual Research Excellence Award – 2019, Faculty of Agriculture, University of Peradeniya

2019: Awarded a “Certificate of Outstanding Contribution to the Reviewing” in the Journal of Stored Product Research by the Elsevier publisher

2019: President’s Award - scientific publication 2017

2017: National Research Council (NRC) merit award for scientific publication 2015

2017: National Research Council (NRC) merit award for scientific publication 2014

2015: President’s Award - scientific publication 2013

**GRADUATED POSTGRADUATE STUDENTS**

**Completed M.Phil. and M.Sc. by Research Students’ Supervision** :

1. Bandara, A.G.A., (2024) Physicochemical, cooking and moisture adsorption kinetics of basmati type rice (*Oryza sativa* L.) varieties cultivated in Sri Lanka differing in amylose content**.** M.Sc. in Food Science and Technology by researchdissertation, Food PGIA, University of Peradeniya, Sri Lanka

***Severed as*** ***senior supervisor***

1. Hettiarachchi, H.A.P.W. (2018) Analysis of the rice grain quality characters of selected rice germplasm in Sri Lanka. M.Phil in Food Science and Technology dissertation, PGIA, University of Peradeniya, Sri Lanka

 ***Severed as*** ***senior supervisor***

1. Drandakumbura, H.D.K. (2014) Effect of Variety and Processing on the Glycemic Index (GI) of Locally Grown Rice. M.Phil in Food Science and Technology dissertation, PGIA, University of Peradeniya, Sri Lanka

***Severed as*** **Co**-**s*upervisor***

1. Prasadi, V.P.N. (2014) Effect of Hermetic storage on physico-chemical and functional properties of grain legumes. M.Phil in Food Science and Technology dissertation, PGIA, University of Peradeniya, Sri Lanka

***Severed as*** ***senior supervisor***

1. Hafeel, R.F. (2010) Effect of Storage Methods on Grain Quality of Different Rice Varieties in Sri Lanka. M.Phil in Food Science and Technology by research only dissertation, PGIA, University of Peradeniya, Sri Lanka

***Severed as*** ***senior supervisor***

**M.Sc. Students completed** : 25 (2005 – 2022)

**M.Sc. Research student** : 1 (2025)

**PhD Supervision completed** :1 (2025)

Ms. S.P. Rebeira: since 2018-to date: Diversity of grain physical physicochemical and nutraceutical properties of selected representative traditional and improved rice varieties in Sri Lanka. (*PGIA Index No. PGIA/2012/386, Board of study of the Agriculture Biology*)

***Severing as*** ***senior supervisor***

**COMPLETED RESEARCH GRANTS**

1. Investigating the capacity of selected plant proteins to self-assemble into the forum of nanofibrils. ***Co-investigator***: University of Peradeniya research grant number –RG/2014/02/Ag
2. Analysis of Nutrceutical Properties of Selected Rice Varieties in Sri Lanka. University of ***Co-investigator***: Peradeniya research grant number –RG/2014/09/Ag
3. Effect of Hermetic storage on physico-chemical and functional properties of grain legumes. ***Principal Investigator***: Funded by National Research Council (NRC), Sri Lanka. Grant No. NRC 12-050
4. Increasing the shelf-life of whole pasteurized goat and buffalo milk by identifying the optimum pasteurized conditions. ***Principal Investigator****:* Funded by National Science Foundation (NSF), Sri Lanka, Grant No. RG/2008/AG/06
5. Influence of storage method and duration on grain quality of different rice types in Sri Lanka. ***Co-Investigator***: Funded by National Science Foundation (NSF), Sri Lanka. Grant No: RG/2005/AG/04
6. Effect of processing condition on glycemic index (GI) of locally grown rice varieties of Sri Lanka. ***Co-investigator:*** Funded by Sri Lanka Council for Agricultural Research Policy (CARP), Sri Lanka, Grant No: 12/679/509

**REVIEWING OF SCIENTIFIC PAPERS AND PROPOSALS**

**Web of Science Journals (*2010-to date*)**

2025: Journal of Stored Products Research - Reviewer (Elsevier Journal)

2024: Journal of Stored Products Research - Reviewer (Elsevier Journal)

2024: Nutrition and Food Science Journal - Reviewer (Emerald Publishing)

2023: Journal of Stored Products Research - Reviewer (Elsevier Journal) – 4 ***reviews***

2023: Food Science & Nutrition (Wiley Journal)

2023: Cogent Food and Agriculture Journal - Reviewer (Taylor & Francis)

2022: Journal of the National Science Foundation–National Science Foundation Sri Lanka - ***2 reviews***

2020: Crop Protection (Elsevier Journal)

2019: Cereal Chemistry – AACC - Reviewer (Wiley Online Library)

2019: Journal of Stored Products Research - Reviewer (Elsevier Journal)

2019: Journal of Stored Products Research - Reviewer (Elsevier Journal)

2018: Journal of Stored Products Research - Reviewer (Elsevier Journal)

2018: Journal of Stored Products Research - Reviewer (Elsevier Journal)

2018: Anais da Academia Brasileira de Ciências (Annals of the Brazilian Academy of Sciences) - Reviewer

2018: Food Chemistry – Reviewer (Elsevier Journal)

2016: Chemical and Biological Technologies in Agriculture - Reviewer (Springer OA Journal)

2016: Journal of Stored Products Research - Reviewer (Elsevier Journal)

2015: Journal of Stored Products Research - Reviewer (Elsevier Journal)

2015: The Philippine Agricultural Scientist- Reviewer (UPBL Journal Philippine)

2013: International Food Research Journal - Reviewer (Malaysian Journal)

2010: Journal of the National Science Foundation of Sri Lanka - Reviewer (Sri Lankan Journal of NSF)

Other Indexed Journals : 20 (2005-2022)

National Proposals : 04 (2012-2022)

**PROFESSIONAL DEVELOPMENT AND TRAINING**

Dec. 2019-Jan. 2020: Completed UNIDO “**Auditor Training Programme on Certification of Educational Programmes based on ISO/IEC 17065:2012**” organized by EU-Sri Lanka Trade Assistance Project, Colombo, Sri Lanka.

11-12 Sep. 2017: **Sri Lankan Institutional Intellectual Property Policy Working Group**. Organized by World Intellectual Property Organization (WIPO) and U.S. Department of Commerce, Commercial Law Development Program (CLDP). Colombo, Sri Lanka

24-28 July 2017: **National Patent Drafting course**. Jointly organized by National Intellectual Property Office in Sri Lanka (NIPO), World Intellectual Property Organization (WIPO) and Ministry of Industry and Commerce with Japan Patent Office (JPO) in Colombo, Sri Lanka

26-30 Sep. 2011: Training programme on ***Capacity Building in Cleaner Production*** for University Academics. Organized by National Cleaner Production Center (NCPC), Colombo, Sri Lanka

10 June 2008: **GLOBALGAP** course. By Trade Capacity Building Branch, UNIDO, Vienna. At Gall face hotel, Colombo 03, Sri Lanka

**PROFESSIONAL SERVICES**

From 2024: **A member** **of Sectorial Committee on Food Products**, Sri Lanka Standards Institution (SLSI), Colombo, Sri Lanka

From 2022: **Associate Editor** of the Sri Lankan Journal of Biology - Institute of Biology Sri Lanka

From 2020: **Domain Experts** **on Intellectual Property** (IP) Advisory committee, University of Peradeniya

2017-2019: **IP member of working group committee** on Development of an Intellectual Property Policy – University of Peradeniya, Sri Lanka

2009-2010: **Technical expert** for the Sri Lanka Standard Institute, Colombo, Sri Lanka

**POSITIONS OF PROFESSIONAL SOCIETIES AND MEMBERSHIPS**

2024-to date: **President** of the Institute of Biology (IOB)-Sri Lanka

2022-2024: **Vice president** of the Institute of Biology (IOB)-Sri Lanka

2016-2018: **Vice president** of the Institute of Biology (IOB)-Sri Lanka

2015-2016: **Joint Secretary** to the Institute of Biology (IOB)-Sri Lanka

2015-2016: **President** of the Peradeniya University Agriculture Faculty Teachers’ Association (PUATA)

2013-2015: **Council member** of the Institute of Biology (IOB)-Sri Lanka

**NATIONAL SERVICES**

2017-2023: **External reviewer** of research programme of the value addition of Coconut, Coconut Research Institute (CRI), Sri Lanka

2016-2022: **Resource Person** - Postharvest, Value Addition and Food Safety Working Group meeting of the Department of Agriculture, Sri Lanka.

2021-2024: **Co-Controlling Examiner**, GCE (A/L) 2021 examination in Biosystem Technology (66) – Practical Test.

2020-to date: **Research Advisory Committee member**, National Institute of Postharvest Management, Ministry of Agriculture.

2010-2012: **Member of the Sri Lankan National Committee** of “Rice Flour Based Industrial Development Programme”

2017-2019: **Jury member** to Evaluate Inventions for International Exhibitions 2019. Sri Lanka Inventors Commission (SLIC), Ministry of Science and Technology

2005-2006: **Member of the Board of Management** Institute of Postharvest Technology (IPHT), Ministry of Agriculture, Colombo, Sri Lanka

**INTERNATIONAL CONFERENCES**

7-12 Oct. 2018: 12th International Working Conference on Stored Product Protection (**12th** **IWCSPP**) in Berlin, Germany

24 - 28Nov. 2014: 11th International Working Conference on Stored Product Protection (**11th IWCSPP 2014**). The Empress Hotel Chiang Mai, Chiang Mai, Thailand

22 - 26 July 2002: 8th International Working Conference on Stored Product Protection (**8th IWCSPP**), University of York, York, UK

16 - 19 Sep. 2002: 53rd **Deutsche Pflanzenschutztagung** in Bonn, Deutschland (German plant protection conference in Bonn, Germany)

3 - 5 Sep. 2001: **IOBC WPRC/ OILB SROP** Working group “Integrated Protection in Stored Products”, Lisbon, Portugal

**PUBLICATIONS**

Peer Reviewed Journals : 37

International Book Chapter : 01

Books : 02

Monograph : 01

Research papers presented in International Conference : >10

**PEER REVIEWED JOURNALS (2011-to Date)**

2025: Pasan, A.J.R.P., **Prasantha, B.D.R.** and Amarathunga, K.S.P. (2025). Relationship between milk stability and physico-chemical characteristics of raw milk of different breeds during storage at ambient temperature. Sri Lankan Journal of Biology, 10 (1): 1-11. doi: https://doi.org/10.4038/sljb.v10i1.174

2025: Bandara, A.G.A., Batugahage, B.D.U.R. **Prasantha, B.D.R.,** and Senanayake, D.M.J.B. (2025). Impact of amylose content on physical properties, cooking qualities, and water absorption of long-grain basmati-type rice (*Oryza sativa* L.) varieties. Ceylon Journal of Science, 54 (1): 213-222. https://doi.org/10.4038/cjs.v54i1.8418

2024: Rebeira, S., Jayatilake, D., **Prasantha, B.D.R.**, Kariyawasam, T. and Suriyagoda, T. (2024). Assessment of antioxidant properties in selected pigmented and non-pigmented rice (Oryza sativa L.) germplasm and determination of its association with Rc gene haplotypes. BMC Plant Biology, 24: 884.

<https://doi.org/10.1186/s12870-024-05623-2>

2024: Nikalansooriya, N.M.A.I., Somaratne, G.M., Maithreepala, S.D., Gunasekara, D.C.S., Wijekoon A.P., Dahanayake, T.N., Sandaruwan, N.B.L., Karunarathna, H.K.A.T., Madhumali, K.D.U., Abeysiriwardena, D.S.D.Z., Chandrasekara, A. and **Prasantha, B.D.R.** (2024). Establishing protocols for glycaemic index clinical trials in an academic setting in Sri Lanka. Tropical Agricultural Research & Extension 27 (3): 157-170. https://doi.org/10.4038/tare.v27i3.5711

2024: Rebeira, S.P., Jayatilake, D.V., **Prasantha, B.D.R**., Menike, B.M.K.S., Piyasiri, C.H., Weerasinghe, W.D.P. and Samarasinghe, W.L.G. (2024). Assessment of advanced breeding lines of rice (oryza sativa l.) for nutritional and nutraceutical grain quality characteristics. Tropical Agriculturist. 172(3): 16-30

2024: Sachinthaka, P.P.S., Liyanage, K.L.N.U., Somaratne, G.M., Hettiarachchi, A., Chandrasiri, K.A.K.L., Amarasinghe, A.A.P.S., Silva, F.H.C.A., How, M.S. and **Prasantha, B.D.R.** (2024). An in-vitro gastric digestion model with peristalsis function for the analysis of the food gastric digestion. Ceylon Journal of Science, 53 (3): 349-355. http://doi.org/doi: 10.4038/cjs.v53i3.8200

2024: Senaweera, Y.T. and **Rohitha Prasantha, B.D.** (2024). Structural and Elemental Analysis of *Waraka* and *Wala* Jackfruit Seed Flour Samples by SEM-EDX Method. Tropical Agricultural Research. 35(2):169-174. doi.org/10.4038/tar.v35i2.8747

2023: Prasadi, V.P.N., Somaratne,G.M., **Rohitha Prasantha**, B.D., Abeyrathne, C.K., Abhayawardhana, P.H.R.M.M., Wimalasiri, K.M.S. (2023) Effect of hermetic storage on end-use quality characteristics mungbean (*Vigna radiate* (L.) R. Wilczek) and cowpea (Vigna unguiculata (L.) Walp.). Journal of Stored Product Research, [104](https://www.sciencedirect.com/journal/journal-of-stored-products-research/vol/104/suppl/C), 102197. <https://doi.org/10.1016/j.jspr.2023.102197>

2023: Bandara, A.G.A., **Prasantha, B.D.R**., Kemashalini, K. and Chandrasiri, K.A.K.L. (2023) Physicochemical, rheological and moisture adsorption characteristics of two basmati rice (*Oryza sativa* L.) varieties differing in amylose content. *The Journal of Agricultural Sciences-Sri Lanka,* 18 (1), 154-171. http://doi.org/10.4038/jas.v18i1.10105

2022: Rebeira, S.P., **Prasantha, B.D.R**., Jayatilake, D.V., Dunuwila, G.R., Piyasiri, C. H. and Herath, H.M.K.W.P. (2022). A comparative study of dietary fiber content, In vitro starch digestibility and cooking quality characteristics of pigmented and non–pigmented traditional and improved rice (*Oryza sativa* L.). *Food Research International*, 157, 111389 (online first).

<https://doi.org/10.1016/j.foodres.2022.111389>

2022: Rebeira, S.P., Menike, B.M.K.S., Bentota, A., Senanayake, D.M.J.B., **Prasantha, B.D.R**., Champika, N.D.V., Padmalatha, D.K., and Kumarihamy, K.M.K. (2022). Nutrient Composition and In-Vitro Starch Digestibility of Selected Rice Varieties (*Oryza sativa* L.) in Sri Lanka. *Tropical Agriculturist*, 170 (2), 1-11.

2021: Dissanayake, S., Rankoth, L., Gunathilaka, W.M.N.D., **Prasantha, B.D.R**., and Marambe, B. (2021). Utilizing food legumes to achieve iron and zinc nutritional security under changing climate. *Journal of Crop Improvement*, 35 (5), 700-721.

DOI: [10.1080/15427528.2021.1872754](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.1080/15427528.2021.1872754?_sg%5B0%5D=6b0C5OgSnBTIu7qHi7XAKQPLwtyCgrIqHLzLbPajZcgzuv9jc0WLm2BjoLynfEeeNBYzYRL8h6HftbNXNF4Mn-fHaA.jdmtZTSECJaQy2_mIwhu-af0GGFNPfLSiArDXSO6slPqhFxxGBEFB9b4We7jqK0nAAMx3_57uySBh2PHl9OyYg)

2021: Sinthu R., **Prasantha B.D.R.** and Hettiarachchi A. (2021). Comparative study of grain quality characteristics of some selected traditional and improved rice varieties in Sri Lanka: a review. CARP - *Sri Lanka Journal of Food and Agriculture*. 7(1), 13-30.

 DOI: <http://doi.org/10.4038/sljfa.v7i1.91>

2020: Koralegedara, K. G. I. D., Hettiarachchi, C. A., **Prasantha, B. D. R.** and Wimalasiri, K. M. S. (2020). Synthesis of nano-scale biopolymer particles from legume protein isolates and carrageenan. *Food Technology and Biotechnology*, 58(2), 214-222

https://doi.org/10.17113/ftb.58.02.20.6279

2020: **Rohitha Prasantha, B.D.** (2020). Effect of high temperature extracted plant material fume against southern cowpea weevil (*Callosobruchus chinensis* L.) (Coleoptera: Bruchidae) as a non-chemical novel fumigation technique. *Chemical and Biological Technologies in Agriculture,* 7:22.

2020: Nirmaan, A.M.C., **Prasantha, B.D.R.** and Peris, B.L. (2020). Comparison of microwave drying and oven drying techniques for moisture determination of three paddy (*Oryza sativa* L.) varieties. *Chemical and Biological Technologies in Agriculture, 7:1-Jan 23*. doi:10.1186/s40538-019-0164-1.

2020: **Prasantha, B.D.R.** (2020). Effects of low-pressure storage of food commodities on the mortality of sored product insects. *Sri Lankan Journal of Biology,* 5(1), 8-14.

DOI: http://doi.org/10.4038/sljb.v5i1.52

2019: **Prasantha, B.D.R.**, Wimalasiri, K.M.S. (2019). Effect of HTST thermal treatments on end-use quality characteristics of goat milk. *Hindawi-* *International Journal of Food Science*, Article ID 1801724, pp. 9 pages, doi.org/10.1155/2019/1801724

2019: Nirmaan, A.M.C., **Prasantha, B.D.R.** and Peris, B.L. (2019). [Comparison of microwave and oven drying techniques for moisture determination of three different sizes of paddy (*Oryza sativa* L.) varieties](http://www.afst.valahia.ro/images/documente/2019/issue3/I.8_Nirmaan.pdf). *Annals. Food Science and Technology*, 20(3), 472-479.

2019: **Prasantha, B.D.R**., Reichmuth, Ch. and Adler, C. (2019). Lethality and kinetic of diatomaceous earth uptake by the bean weevil (*Acanthoscelides obtectus* [Say] Coleoptera: Bruchinae): Influence of short-term exposure period. *Journal of Stored Products Research*. 84 (December), 101509, doi.org/10.1016/j.jspr.2019.101509

2018: Anjana, J.A, **Rohitha Prasantha, B.D**, Amaratunga, S. and Marambe, B. (2018). Increased rate of potassium fertilizer at time of heading and delayed harvesting enhance the quality of direct-seeded rice. *Chemical and Biological Technique in Agriculture.* 5:22, 1-9. (DOI: doi.org/10.1186/s40538-018-0136-x)

2018: Kemashalini, K., **Prasantha, B.D.R**., Chandrasiri, K.A.K.L. (2018). Physico-chemical properties of high and low amylose rice flour. *Advances in Food Science and Engineering*. 2(4), 115-124. (DOI: [10.22606/afse.2018.24003](https://dx.doi.org/10.22606/afse.2018.24003)).

2018: **Prasantha, B.D.R.** (2018). Glycemic index of four traditional red pigmented rice. *Integrative Food, Nutrition and Metabolism*. 5(5), 1-3.

 (DOI: doi.10.15761/IFNM.1000230)

2018: **Prasantha, B.D.R.** (2018). Prediction of Moisture Adsorption Characteristics of Dehydrated Fruits Using the GAB Isotherm Model. *Annals of Agriculture and Crop Science* 3(1), 1036-1039. (DOI: id1036 (2018)

2017: Somaratne, G.M., **Prasantha, B.D.R**., Dunuwila, G.R., Chandrasekara, A., Wijesinghe, D.G.N.G., and Gunasekara, D.C.S. (2017). Effect of polishing on glycemic index and antioxidant properties of red and white basmati rice. *Food Chemistry*. 237C, 716-723. (DOI: doi.org/10.1016/j.foodchem.2017.06.002).

2016: Hettiarachchi, H.A.P.W., Rebeira, S.P, **Prasantha, B.D.R.** and Wickramasinghe, H.A.M. (2016). Diversity of Physical and Cooking Quality Characters of Selected Traditional and Improved Rice Varieties in Sri Lanka. *Sri Lankan Journal of Biology.* 1(1), 15-26.

2015: **Prasantha, B.D.R**., Reichmuth, Ch., Adler, C. and Felgentreu, D. (2015). Lipid adsorption of diatomaceous earths and increased water permeability in the epicuticle layer of the cowpea weevil *Callosobruchu smaculatus* (F.) and the bean weevil *Acanthoscelides obtectus* (Say) (Chrysomelidae). *Journal of Stored Products Research.* 64 (A), 36-41. (DOI: 10.1016/j.jspr.2015.08.003)

2014: **Prasantha, B.D.R**., Hafeel, R.F., Wimalasiri, K.M.S. and Pathirana, U.P.D. (2014). End-use quality characteristics of hermetically stored paddy. *Journal of Stored Product Research.* 59, 158-166 (DOI: 10.1016/j.jspr.2014.07.003).

2014: Rebeira, S.P., Wickramasinghe, H.A.M., Samarasinghe, W.L.G. and **Prasantha, B.D.R.** (2014). Diversity of grain quality characteristics of traditional rice varieties in Sri Lanka. *Tropical Agriculture Research*. 25(4), 470-478.

2013: **Prasantha, B.D.R.** and Amunogoda, P.N.R.J. (2013). Moisture adsorption characteristics of solar dehydrated mango and jackfruit. *Food and Bioprocess Technology: An International Journal.* 6(7), 1720-1728 (DOI: 10.1007/s11947-012-0832-7).

2013: Darandakumbura, H.D.K., **Prasantha, B.D.R.** and Wijesinghe, D.G.N.G. (2013). Effect of processing condition and polishing rate on apparent amylose content of Some Sri Lankan rice varieties. *Tropical Agriculture Research*. 24(4), 317-324.

2013: Darandakumbura, H.D.K., Wijesinghe, D.G.N.G. and **Prasantha, B.D.R.** (2013). Effect of processing conditions and cooking methods on resistant starch, dietary fiber and glycemic index of selected rice. *Tropical Agriculture Research*. 24 (2), 163-174 (DOI: 0.13140/RG.2.1.4741.0407).

2011: Hafeel, R.F., Prasantha, B.D.R., Dissanayke, D.M.N. and Edirisinghe, E.M.R.D. (2011). Hermetic storage method, a promising alternative for rice storage. *Annals of the Sri Lanka Department of Agriculture.* 13, 59-70.

**BOOK CHAPTER**

**Prasantha, B.D.R.** (2020). Promising modified atmosphere storage methods to protect shelf-stable food commodities in Sri Lanka., 509-529. In: De Silva R.P., Pushpakumara, G., Prasada, P. and Weerahewa, J. (Eds.), *Agriculture Research for sustainable Food System in Sri Lanka* Volume II. Springer, Singapore. PP. 529

<https://doi.org/10.1007/978-981-15-3673-1_23>

**PUBLISHED BOOKS**

**Prasantha B.D.R.** and Manamperi C., Dayarathne, V.C. (2014) “Ahara Parisanrakshanye Vidyathmaka Muladharma (Scientific Principles of Food Preservation)”. S. Godage and Brother Pvt. Ltd. Colombo, Sri Lanka. (ISBN: 978-955-30-4654-3).

*Recommended as a school library book by the educational publications advisory board, Ministry of Education, Sri Lanka. Number of the license: EPAB/2/9140*

**Prasantha, B.D.R.** (2009) Practical Guide to Food Process Technology – Food Process Engineering. Department of Food Science and Technology Faculty of Agriculture University of Peradeniya, Sri Lanka. Publisher IRQUE project, Faculty of Agriculture, University of Peradeniya, Sri Lanka. (ISBN: 978-955-589-127-1).

*Recommended as a library book by the educational publications advisory board, Ministry of Education, Sri Lanka. Number of the license: EPAB/2/9127*

**MONOGRAPH**

Arampath, P.C., **Prasantha**, **B.D.R.** and Samarajeewa, U. (2005).Bud to Brew: Quality Assurance in Tea Processing. A Science based vision for the tea industry beyond ISO 22000 International Standard. A monograph by the Department of Food Science and Technology Faculty of Agriculture University of Peradeniya, Sri Lanka (ISBN 955-589-082-X).

Sandirigama, P.M.T.B., Gunawardhana, N., **Prasantha, B.D.R**., Yapa, Y.P.R.D. and Wickramasinghe, W.A.R.C. (2017). Intellectual Property Policy for University of Peradeniya, University of Perdeniya, Sri Lanka.

**CONFERENCE PROCEEDINGS**

2018: Kemashalini, K. and **Prasantha, B.D.R.** (2018). Quality of string-hoppers prepared from high and low amylose rice flour. Proceedings of the International Research Symposium on Postharvest Technology. National Institute of Post-Harvest Management, Anuradhapura, Sri Lanka. Pp. 49-56.

2018**: Prasantha, B.D.R.,** K.M.H. Kumarasinha, K.M.H., Emitiyagoda, G.A.M.S. (2018). Storage of Mungbean in Hermetic PVC Tank. In. C.S. Adler et al. (Eds.), Proceedings of the12th International Working Conference on Stored Product Protection (IWCSPP) in Berlin, Germany, October 7-11, 2018. Julius-Kuhn-Archiv 463(1), Pp: 441-447.(DOI: doi.10.5073/jka.2018.463.098)

2014**: Prasantha, B.D.R.**, Prasadi, V.P.N. and Wimalasiri, K.M.S. (2014). Effect of Hermetic Storage on End-Use Quality of Mungbean. In: Arthur, F.H., Kengkanpanich, R., Chayaprasert, W. and Suthisut, D. (Eds.). Session 5: Fumigation, Hermetic Storage and Modified Atmospheres. *Proceedings of the 11th International Working Conference on Stored Product Protection, Chiang Mai, Thailand (24th -28th November*2014), Pp: 373-384.

2012**: Prasantha, B.D.R**., Obenland, D., Walse, S., Johnson, J. (2012). High temperature CO2 treatments for inshell walnuts. International Research Conference on Methyl Bromide Alternatives and Emissions Reductions. In: Gary Obenauf (Ed.), *Proceedings of the Methyl Bromide Alternatives Outreach*, Orlando, Florida, USA, 6th-8thNovember, 2012, Pp: 37.1-37.4. http://mbao.org/2012/Proceedings/37JohnsonJ.pdf.

2002**: Prasantha, B.D.R.,** Reichmuth. Ch., Hetz, S.K. and Adler, C. (2002). Physiological aspects of diatomaceous earth treated cowpea weevil *Callosobruchus maculatus* (f.) (Coleoptera: Bruchidae); Chemical and Physical Control. In: Credlan, P.E., Armitage, D.M., Bell. C.H., Cogan, P.M. and Highley, E. (Eds.). *Advances in Stored Product Protection*.*Proceedings of 8th International Working Conference on Stored Product Protection, York, UK (22-26 July 2002)*. I, 608-613.

2002**: Prasantha, B.D.R.,** Reichmuth, Ch. and Büttner, C. (2002). Effect of temperature and relative humidity on diatomaceous earth treated C*allosobruchus maculatus* (f.) and *Acanthoscelides obtectus* (say) (Coleoptera: Bruchidae); Chemical and Physical Control*.* In: Credlan, P.E., Armitage, D.M., Bell. C.H., Cogan, P.M. and Highley, E. (Eds.). *Advances in Stored Product Protection****.*** *Proceedings of 8th International Working Conference on Stored Product Protection, York, UK (22-26 July 2002)*. I, 763-767.

2002**: Prasantha, B.D.R.,** Reichmuth, Ch. and Büttner, C. (2002). Effect of diatomaceous earths on the reproductive performance *Callosobruchus maculates* (Fabricius) (Coleoptera: Bruchidae); *Biology, Detection and Biological Control*. *Advances in Stored Product Protection. Proceedings of 8thInternational Working Conference on Stored Product Protection, York, UK (22-26 July 2002)*. I, 208-216.

2002**: Prasantha, B.D.R.**, Reichmuth, Ch. and Strumpf.Th. (2002). Kinetics of diatomaceous earth (Fossil-shield®) uptake by *Callosobruchus maculates* (F.) (Coleoptera: Bruchidae); Biology, Detection and Biological Control. *Advances in Stored Product Protection. Proceedings of 8th International Working Conference on Stored Product Protection, York, UK (22-26 July 2002)*. I, 200-207.

2002**: Prasantha, B.D.R.** (2002). Efficacy of burnt plant material smoke for protection of stored paddy against infestation of *Sitophilus oryzae* (L.). In: Adler, C., Navarro, S., Schöller, M. and Stengard-Hanse, L. (eds.), Working group “Integrated Protection in Stored Products”, Proceedings of the meeting in Lisbon, 3rd - 5th September 2001, Lisbon, Portugal. *IOBC-WPRS Bulletin*. 25, 171-176.

I hereby certify that the above particular furnished by me are true and correct to the best of my knowledge.



BDR Prasantha