

**Samantha Chandranath Karunarathna**  
**B.Sc. (Sp.), Ph.D.**

**PROFILE**

**Professor**, Center for Yunnan Plateau Biological Resources Protection and Utilization, College of Biological Resource and Food Engineering, Qujing Normal University, Qujing, Yunnan 655011, P.R. China.



**REACH ME**

(+86)-15877905824

samanthakarunarathna@gmail.com

[https://www.researchgate.net/profile/Samantha\\_Karunarathna](https://www.researchgate.net/profile/Samantha_Karunarathna)

**EDUCATION**

**2002-2006**

**UNIVERSITY OF PERADENIYA, SRI LANKA**

Bachelor degree of Science specialized in Botany (B.Sc. sp. Hons) from Faculty of Science

**Project Title:** Varietal resistance of *Carica papaya* var. Rathna&Seeni to Anthracnose disease.

**2010-2016**

**MAE FAH LUANG UNIVERSITY, THAILAND**

Ph.D. degree of BioSciences specialized in Mycology from School of Science

**PhD dissertation title:** Taxonomy and Phylogeny of *Lentinus*, *Pleurotus giganteus*, *Clarkeinda* and selected species of *Agaricus* in northern Thailand

**SKILLS & EXPERTISE**

Phylogenetic analysis

Basidiomycota taxonomy

Ascomycota taxonomy

Mushroom domestication

Fungal plant pathology

Fungal animal pathology

Fungal biodiversity

**H index: 35**

**Citations: 6900**

**EXPERIENCE**

**AUG 2006 - MAY 2008**

Lecturer at Faculty of Applied Sciences, Rajarata University of Sri Lanka

**Courses taught:** Food Microbiology, Plant Diversity, Plant Pathology, Plant Physiology and Plant Anatomy

**SEP 2010 - NOV 2010**

Visiting researcher, Botanic Garden Meise, Belgium

**DEC 2009 - FEB 2010**

Visiting researcher, French National Institute for Agricultural Research, Mycologie et Sécurité des Aliments (MYCSA), France

**MAY 2012-MAY 2016**

Visiting Researcher, World Agroforestry Centre, East and Central Asia office, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming, China

**Awards**

- **Recognition award** in Science and Technology was awarded on 25 November 2017 from the Association of Agricultural Technology in Southeast Asia (AATSEA) at the Sixth International Conference on Integration of Science and Technology for Sustainable Development (6th ICIST 2017) Hotel Supreme and Convention Plaza, Baguio City, Philippines.
- **Award of Excellence** was awarded on 14th May 2019 at China Songyang International Modern Organic Agriculture Forum, Songyang, Zhejiang, P.R.China

- **AATSEA Outstanding Leadership Award in Research Development** was awarded on 20th November 2019 at the 8th International Conference on Integration of Science and Technology for Sustainable Development (8th ICIST), Huiyuan International Hotel, Jingde, Anhui province, P.R. China.
- CAS President's International Fellowship Initiative (**PIFI**) (number 2018PC0006).
- CAS President's International Fellowship Initiative (**PIFI**) young staff (number: 2020FYC0002).
- Yunnan Talents Award 2022
- Yunnan Friendship Award 2022

## Research grants involved

- Research assistant of the National Center for Genetic Engineering & Biotechnology grant (grant number: BRN049/2553) "Value added products from basidiomycetes: Putting Thailand's biodiversity to use" from June 2009 –July 2012.
- Research assistant of the National Research Council of Thailand (NRCT) grant (grant number: NRCT/55201020007) "Taxonomy, phylogeny and cultivation of *Lentinus* in northern Thailand" from November 2011 to December 2014.
- Research assistant of the Mae Fah Luang University grant (grant number: MFU/54101020048) "Taxonomy, phylogeny and cultivation of *Lentinus* in northern Thailand" from January 2012 to February 2013.
- Research assistant of the Thailand Research Fund grant (grant number: BRG 5580009) "Taxonomy, Phylogeny and biochemistry of Thai Basidiomycetes" from June 2012 to July 2015.
- Principle investigator of the National Natural Science Foundation (NSFC) project "Taxonomy, phylogeny, screening medicinal compounds and domestication of new *Ganoderma* in Greater Mekong Sub-region (Grant No. 31750110478), from December 2017 – December 2018
- Principle investigator of the National Natural Science Foundation (NSFC) project "Taxonomy, phylogeny, screening medicinal compounds and domestication of new *Ganoderma* in Greater Mekong Sub-region (number 31851110759) from December 2018 – December 2019

## Journal editor

- Scientific Editor of the International Journal **Studies in Fungi** from March 2017 to date.
- Handling editor (Basidiomycetes) of the International Journal "**Phytotaxa**" from August 2014 to date.
- Section editorial board member for the section "Environmental and Ecological Interactions of Fungi" in **Journal of Fungi**.
- Editorial board member of the International Journals **Mycosphere**, **Asian Journal of Mycology** and **Current Research in Environmental and Applied Mycology (CREAM)** from June 2014 to date.
- Senior editor of the International Journal "**Journal of Fungal Diversity**" from January 2018 to date.
- Guest Associate Editor in Fungal Pathogenesis of **Frontiers in Cellular and Infection Microbiology**
- Guest Associate Editor in Microbe and Virus Interactions with Plants in **Frontiers in Microbiology**
- Guest Associate Editor in Fungi-Plant Interactions of **Frontiers in Fungal Biology**
- Review Editor in Fungi and Their Interactions of **Frontiers in Microbiology**
- Review Editor in Terrestrial Microbiology of **Frontiers in Microbiology**
- Review Editor in Fungi-Plant Interactions of **Frontiers in Fungal Biology**
- Guest editor in section "Environmental and Ecological Interactions of Fungi" in **Journal of Fungi**
- Guest editor in Special Issue "Mycorrhizal fungi in Sustainable Agriculture and Land Restoration" in **Agronomy**
- Guest editor in Special Issue "The Hidden Fungal Diversity in Asia" in **Diversity**
- Guest editor in Special Issue "Plant-Fungi Interaction: Two-Edged Sword for Plant Growth, Production and

- Karunarathna SC, Zhao RL, Yang ZL, Chukeatirote E & Hyde KD (2009) Diversity, taxonomy and phylogeny of *Lentinus* (Basidiomycetes) from northern Thailand. Thai Mycological Society Conference, at Maejo University, Chiang Mai, Thailand.
- Karunarathna SC, Zhao RL, Yang ZL, Chukeatirote E & Hyde KD (2010) Diversity, taxonomy and phylogeny of *Lentinus* (Basidiomycetes) from northern Thailand. Thai Phytopathological Society Conference, Bangkok, Thailand.
- Karunarathna SC, & Hyde KD (2010) Current status of knowledge of Sri Lankan mycota. International Symposium on "Fungal Biodiversity and Resources", Mae Fah Luang University, Chiang Rai, Thailand.
- Karunarathna SC & Hyde KD (2011) New edible mushrooms: from discovery to production. Southeast Asia Conference on Education, Research, Science and Technology, Bangkok, Thailand.
- Karunarathna SC (2011) Education system in Sri Lanka. Southeast Asia Conference on Education, Research, Science and Technology, Bangkok, Thailand.
- Karunarathna SC, Zhao RL, Yang ZL, Chukeatirote E & Hyde KD (2012) *Lentinus* (BASIDIOMYCOTA)- exiting findings from Thailand. Thai mushroom growers' Society conference, Chiang Mai, Thailand.
- Karunarathna SC, Peter E. Mortimer, Jianchu Xu, Kevin D. Hyde: *Biodiversity of mushrooms in northern Thailand forests, economics of sustainable forestry practices*. Conference of the Society for Tropical Ecology, Vienna, April 2-5, 2013, Vienna, Austria; 04/2013
- Karunarathna SC, Asanka R. Bandara, ThatsaneeLuangharn, NaritsadaThongklang, NamphungKlomklung, Jie Chen, Jianchu Xu, Peter E. Mortimer, Philippe Callac and Kevin D. Hyde : New edible fungi from Southeast Asia: discovery to production. International conference on "Towards a Natural Classification and industrial Utilization of the Fungi" organized by Center of Excellence in Fungal Research, held on January 10-13, 2017
- Karunarathna SC, Peter E. Mortimer, Jianchu Xu and Kevin D. Hyde: New edible fungi from Southeast Asia: discovery to production. The 6th International Conference on Integration of Science and Technology for Sustainable Development, 24-26 November 2017, Philippines
- Karunarathna SC, Peter E. Mortimer, Jianchu Xu and Kevin D. Hyde: New edible fungi from Southeast Asia: discovery to production. Asian Mycological Congress, October 10-13, 2017, Ho Chi Minh City, Vietnam
- Karunarathna SC, Peter E. Mortimer, Jianchu Xu and Kevin D. Hyde: New edible fungi from Southeast Asia: discovery to production. The Seventh International Conference on Integration of Science and Technology for Sustainable Development 2018 (7th ICIST 2018) organized by Association of Agricultural Technology in Southeast Asia, held on November 26-29, 2018 at The Patra Bali Resort and Villas, Bali, Indonesia.
- Karunarathna SC, Peter E. Mortimer, Jianchu Xu and Kevin D. Hyde: Forest-Fungi Systems: From Yunnan to the Greater Mekong, 2018 Greater Mekong Forum on Water, Food and Energy" held on 4-7 December 2018 at Inya Lake Hotel, Yangon Myanmar.

- Karunaratna SC, Peter E. Mortimer, Jianchu Xu (2018) Mountain Futures, the International conference on Sustainable Built Environment at Earl's regency hotel, Kandy, Sri Lanka.
- Karunaratna SC (2019) New edible fungi from Southeast Asia: discovery to production at Mother Theresa Women's University, Kodaikanal, Tamilnadu, India.
- Karunaratna SC (2019) Organic mushroom growing: Improving human health and livelihoods, Songyang International Modern Organic Agriculture Forum, Songyang, China.
- Karunaratna SC (2019) New edible fungi from Southeast Asia: discovery to production, Asian Mycological Congress, Mie, Japan held on 1<sup>st</sup> – 5<sup>th</sup> October 2019.
- Karunaratna SC (2021) Deadly mushrooms: no more Mr. Fungi. FTA Kunming Scientific Conference – Forests, trees, and agroforestry for diverse sustainable landscapes (22-24 June 2021), Kunming Institute of Botany, CAS, P.R. China.
- Karunaratna SC (2021) Deadly poisonous mushrooms. The 9<sup>th</sup> International Conference on Integration of Science and Technology for Sustainable Development (9th ICIST 2021) Faculty of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang (KMITL), Bangkok, Thailand. November 19, 2021.
- Karunaratna SC (2021) Deadly poisonous mushrooms. International Exchange of Professionals (Peninsula Branch), Yantai International Technology Trade Fair on 23-25 November at Sheraton Yantai Golden Beach Resort, Yantai, P.R. China.

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### Book reviews published in Fungal Diversity

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- Samantha C. Karunaratna, Indunil Senanayake, Shova Baral, Kasun M. Thambugala, Benjarong Thongbai & Kevin D. Hyde et al. (2012) Fungal Diversity 57: 211-218
- Samantha C. Karunaratna, Asanka R. Bandara, Hiran A. Ariyawansa, Shova Baral and Dhanushka Udayanga, Dimuthu S. Manamgoda, Jian-Kui Liu, Benjarong Thongbai & Kevin D. Hyde et al. (2012) Fungal Diversity 54:143-150
- Samantha C. Karunaratna, Anupama Daranagama, NilamFadmaulidhaWulandari, ThatsaneeLuangharn, M. M. Ruvishika S. Jayawardena, P. H. M. Anushika K. Herath, Asha Janadaree Dissanayake, Gayan Dakshitha Abeyasinghe, I. C. Senanayake, Sinang Hongsanan & Kevin D. Hyde et al. (2013) Fungal Diversity 59:179-197 DOI 10.1007/s13225-013-0221-1

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### Books

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- PE Mortimer, J Xu, **SC Karunaratna**, KD Hyde: Mortimer, PE; Xu, J; Karunaratna, SC; Hyde, KD (eds) (2014) Mushrooms for trees and people: a field guide to useful mushrooms of the Mekong region. The World Agroforestry Centre, East Asia, Kunming, China. 125 pp. 1st edited by Peter E Mortimer, Jianchu Xu, Karunaratna Samantha C, Kevin D Hyde, 01/2014; World Agroforestry Centre (ICRAF)., ISBN: ISBN 978-92-9059-358-4
- Xu JC, Liu F, Liu ZQ (2016) Fantastic Mushroom World: Macrofungi of the Nabanhe National Natural Reserve 《奇妙的真菌世界—纳板河国家级自然保护区大型真菌》. Kunming, China: Yunnan publishing group co., LTD (云南出版集团公司), Yunnan Science and Technology Publishing Press (云南科技出版社). ISBN9787541697005(in Chinese)

Diversity of large woody fungi in Wuliangshan area, China Forestry Press, ISBN 978-7-5219-1288-3, associate editor.

### Journal Publications IF>9

- 1) Tibpromma S, Hyde KD, McKenzie EHC, Bhat DJ, Phillips Alan JL, Wanasinghe DN, Samarakoon MC, Jayawardena RS, Dissanayake AJ, Tennakoon DS, Doilom M, Phookamsak R, Tang AMC, Xu J, Mortimer PE, Promptuttha I, Maharachchikumbura SSN, Khan S, **Karunarathna SC\*** (2018) Fungal diversity notes 840–927: Micro- fungi associated with Pandanaceae. **Fungal Diversity** 1–160, doi.org/10.1007/s13225 018-0408-6 (**Corresponding Author**)
- 2) Indunil Chinthani Senanayake; Rajesh Jeewon; Dhanushka Nadeeshan Wanasinghe; Chada Norphanphoun; Anuruddha Karunarathna; Dhandevi Pem; Rekhani Hansika Perera; Erio Camporesi; Putarak Chomnunti; Eric H. C McKenzie; Kevin David Hyde; **Samantha Chandranath Karunarathna\*** (2018) Taxonomic circumscription of Diaporthales based on multigene phylogeny and morphology, **Fungal Diversity** 93(10): 241–443, doi.org/10.1007/s13225-018-0410-z (**Corresponding Author**).
- 3) Dhanushka N. Wanasinghe, Chayanard Phukhamsakda, Kevin D. Hyde, Rajesh Jeewon, Hyang Burm Lee, E. B. Gareth Jones, Saowaluck Tibpromma, Danushka S. Tennakoon, Asha J. Dissanayake, Subashini C. Jayasiri, Yusufjon Gafforov, Erio Camporesi, Timur S. Bulgakov, Anusha H. Ekanayake, Rekhani Hansika Perera, Milan C. Samarakoon, Ishani D. Goonasekara, Ausana Mapook, Wen-Jing Li, Indunil C. Senanayake, Junfu Li, Chada Norphanphoun, Mingkwan Doilom, Ali H Bahkali, Jianchu Xu, Peter E. Mortimer, Sehroon Khan, **Samantha C. Karunarathna\*** (2018) Fungal diversity notes 709–839: taxonomic and phylogenetic contributions to fungal taxa with an emphasis on fungi on Rosaceae. **Fungal Diversity** 89: 1 –236. (**Corresponding Author**)
- 4) Senanayake IC, Crous PW, Groenewald JZ, Maharachchikumbura SSN, Jeewon R, Phillips AJL, Bhat JD, Perera RH, Li QR, Li WJ, Tangthirasunun N, Norphanphoun C, **Karunarathna SC\***, Camporesi E, Manawasinghe I, Al-Sadi AM, Hyde KD (2017). Families of Diaporthales based on morphological and phylogenetic evidence. **Studies in Mycology** 86: 217–296, doi.org/10.1016/j.simyco.2017.07.003 (**Corresponding Author**)
- 5) Saowaluck Tibpromma, Kevin D. Hyde, Rajesh Jeewon, Sajeewa S. N. Maharachchikumbura, Jian-Kui Liu, D. Jayarama Bhat, E. B. Gareth Jones, Eric H. C. McKenzie, Erio Camporesi, Timur S. Bulgakov, Mingkwan Doilom, André Luiz Cabral Monteiro de Azevedo Santiago, Kanad Das, Patinjareveettil Manimohan, Tatiana B. Gibertoni, Young Woon Lim, Anusha Hasini Ekanayaka, Benjarong Thongbai, Hyang Burm Lee, Jun-Bo Yang, Paul M. Kirk, Phongeun Sysouphanthong, Sanjay K. Singh, Saranyaphat Boonmee, Wei Dong, K. N. Anil Raj, K. P. Deepna Latha, Rungtiwa Phookamsak,

Chayanard Phukhamsakda, Sirinapa Konta, Subashini C. Jayasiri, Chada Norphanphoun, Danushka S. Tennakoon, Junfu Li, Monika C. Dayarathne, Rekhani H. Perera, Yuanpin Xiao, Dhanushka N. Wanasinghe, Indunil C. Senanayake, Ishani D. Goonasekara, N. I. de Silva, Ausana Mapook, Ruvishika S. Jayawardena, Asha J. Dissanayake, Ishara S. Manawasinghe, K. W. Thilini Chethana, Zong-Long Luo, Kalani Kanchana Hapuarachchi, Abhishek Baghela, Adriene Mayra Soares, Alfredo Vizzini, Angelina Meiras-Ottoni, Armin Mešić, Arun Kumar Dutta, Carlos Alberto Fragoso de Souza, Christian Richter, Chuan-Gen Lin, Debasis Chakrabarty, Dinushani A. Daranagama, Diogo Xavier Lima, Dyutiparna Chakraborty, Enrico Ercole, Fang Wu, Giampaolo Simonini, Gianrico Vasquez, Gladstone Alves da Silva, Helio Longoni Plautz Jr., Hiran A. Ariyawansa, Hyun Lee, Ivana Kušan, Jie Song, Jingzu Sun, Joydeep Karmakar, Kaifeng Hu, Kamal C. Semwal, Kasun M. Thambugala, Kerstin Voigt, Krishnendu Acharya, Kunhiraman C. Rajeshkumar, Leif Ryvarde, Margita Jadan, Md. Iqbal Hosen, Michal Mikšík, Milan C. Samarakoon, Nalin N. Wijayawardene, Nam Kyu Kim, Neven Matočec, Paras Nath Singh, Qing Tian, R. P. Bhatt, Rafael José Vilela de Oliveira, Rodham E. Tulloss, S. Aamir, Saithong Kaewchai, Sayali D. Marathe, Sehroon Khan, Sinang Hongsan, Sinchan Adhikari, Tahir Mehmood, Tapas Kumar Bandyopadhyay, Tatyana Yu. Svetasheva, Thi Thuong Thuong Nguyen, Vladimír Antonín, Wen-Jing Li, Yong Wang, Yuvraj Indoliya, Zdenko Tkalčec, Abdallah M. Elgorban, Ali H. Bahkali, Alvin M. C. Tang, Hong-Yan Su, Huang Zhang, Itthayakorn Promputtha, Jennifer Luangsa-ard, Jianchu Xu, Jiye Yan, Kang Ji-Chuan, Marc Stadler, Peter E. Mortimer, Putarak Chomnunti, Qi Zhao, Alan J. L. Phillips, Sureeporn Nontachaiyapoom, Ting-Chi Wen & **Samantha C. Karunarathna\*** (2017). Fungal diversity notes 491–602: taxonomic and phylogenetic contributions to fungal taxa. **Fungal Diversity** 83(1): 1–261. (**Corresponding Author**)

- 6) Wanasinghe DN, Hyde KD, Crous PW, Wijayawardene NN, Jeewon R, Jones EBG, Bhat DJ, Phillips AJL, Groenewald JZ, Dayarathne MC, Phukhamsakda C, Thambugala KM, Bulgakov TS, Camporesi E, Gafforov Y, Mortimer PE, **Karunarathna SC\*** (2017) Phylogenetic revision of *Camarosporium* (Pleosporinae, Dothideomycetes) and allied genera, **Studies in Mycology** 87: 207–256. doi.org/10.1016/j.simyco.2017.08.001 (**Corresponding Author**)
- 7) Wijayawardene NN, Hyde KD, Rajeshkumar KC, Hawksworth DL, Madrid H, Kirk PM, Braun U, Singh RV, Crous PW, & Tibpromma S, Gusmao LFP, Weerahewa D, **Karunarathna SC\*** (2017) Notes for genera: Ascomycota, **Fungal Diversity** 86(1): 1–594. DOI 10.1007/s13225-017-0386-0 (**Corresponding Author**)

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## Journal Publications

- 1) de Silva NI, Hyde KD, Lumyong S, Phillips AJL, Bhat DJ, Maharachchikumbura SSN, Thambugala KM, Tennakoon DS, Suwannarach N, **Karunarathna SC** 2022 – Morphology, phylogeny, host association and

geography of fungi associated with plants of Annonaceae, Apocynaceae and Magnoliaceae. *Mycosphere* 13(1), 955–1076, Doi 10.5943/mycosphere/13/1/12

- 2) Du, Tian-Ye, **Samantha C. Karunarathna**, Xian Zhang, Dong-Qin Dai, Ausana Mapook, Nakarin Suwannarach, Jian-Chu Xu et al. "Endophytic Fungi Associated with *Aquilaria sinensis* (Agarwood) from China Show Antagonism against Bacterial and Fungal Pathogens." *Journal of Fungi* 8, no. 11 (2022): 1197.
- 3) Monkai, Jutamart, Rungtiwa Phookamsak, Sheng Xu, Jianchu Xu, Peter E. Mortimer, **Samantha C. Karunarathna**, Nakarin Suwannarach, and Saisamorn Lumyong. "*Pseudophaeocystostroma bambusicola* gen. et sp. nov. (Diaporthaceae) from bamboo in Yunnan, PR China." *Phytotaxa* 571, no. 1 (2022): 39-51.
- 4) Lu, Li, **Samantha C. Karunarathna**, Dong-Qin Dai, Yin-Ru Xiong, Nakarin Suwannarach, Steven L. Stephenson, Abdallah M. Elgorban, Salim Al-Rejaie, Ruvishika S. Jayawardena, and Saowaluck Tibpromma. "Description of Four Novel Species in Pleosporales Associated with Coffee in Yunnan, China." *Journal of Fungi* 8, no. 10 (2022): 1113.
- 5) Silva, Nimali I. de, Kasun M. Thambugala, Danushka S. Tennakoon, **Samantha C. Karunarathna**, Jaturong Kumla, Nakarin Suwannarach, and Saisamorn Lumyong. "Taxonomy and Phylogenetic Appraisal of Dothideomycetous Fungi Associated with *Magnolia*, *Lilium longiflorum* and *Hedychium coronarium*." *Journal of Fungi* 8, no. 10 (2022): 1094.
- 6) Kalamulla, Ruwanthika, **Samantha C. Karunarathna**, Saowaluck Tibpromma, Mahesh CA Galappaththi, Nakarin Suwannarach, Steven L. Stephenson, Suhail Asad, Ziad Salman Salem, and Neelamanie Yapa. "Arbuscular Mycorrhizal Fungi in Sustainable Agriculture." *Sustainability* 14, no. 19 (2022): 12250.
- 7) Samarakoon, M. C., Liu, J. K., **Karunarathna, S. C.**, Mukjang, N., & Cheewangkoon, R. (2022). *Massaria broussonetiae* sp. nov. and *M. racemosae* sp. nov. (Massariaceae, Pleosporales) on moraceous hosts. *Phytotaxa*, 559(3), 263-274.
- 8) Thiyagaraja, Vinodhini, Damien Ertz, Kevin D. Hyde, **Samantha C. Karunarathna**, Chaiwat To-Anun, and Ratchadawan Cheewangkoon. "Morphological and phylogenetic reassessment of *Sclerococcum simplex* from China." *Phytotaxa* 559, no. 2 (2022): 167-175.
- 9) Galappaththi, M.C., Lu, Y., **Karunarathna, S.C.**, Wijewardena, N., Karunarathna, A., Gamage, M. and Ediriweera, A.N. (2022) First successful cultivation and nutritional composition of *Macrocybe gigantea* in Sri Lanka. *MycoAsia* 2022/07.
- 10) Ekanayaka, A.H., **Tibpromma, S.\***, Dai, D., Xu, R., Suwannarach, N., Stephenson, S.L., Dao, C. and **Karunarathna, S.C.\***, 2022. A Review of the Fungi That Degrade Plastic. *Journal of Fungi*, 8(8), p.772.
- 11) Wenhua Lu, Dongqin Dai, Li Lu, Xiangfu Liu, Xiaomei Wei, **Samantha C. Karunarathna\***, Saowaluck Tibpromma\* (2022) Additions to microfungi in China: *Lentithecium yunnanensis* sp. nov. *Phytotaxa* 554

(2): 103–121.

- 12) Lu, L., **Karunaratna, S. C.**, Hyde, K. D., Suwannarach, N., Elgorban, A. M., Stephenson, S. L., ... & Tibpromma, S. (2022). Endophytic Fungi Associated with Coffee Leaves in China Exhibited In Vitro Antagonism against Fungal and Bacterial Pathogens. *Journal of Fungi*, 8(7), 698.
- 13) Gautam, A. K., Avasthi, S., Verma, R. K., Niranjana, M., Devadatha, B., Jayawardena, R. S., ... & **Karunaratna, S. C.** (2022). A Global Overview of Diversity and Phylogeny of the Rust Genus *Uromyces*. *Journal of Fungi*, 8(6), 633.
- 14) Kazmi, S. S. U. H., Yapa, N., **Karunaratna, S. C.\***, & Suwannarach, N.\* (2022). Perceived Intensification in Harmful Algal Blooms Is a Wave of Cumulative Threat to the Aquatic Ecosystems. *Biology*, 11(6), 852.
- 15) Anuruddha Karunaratna, Patchareeya Withee, Parichad Pakdeeniti, Sukanya Haituk, Nisachon Tanakaew, Chanokned Senwana, Paweł Działak, **Samantha Chandranath Karunaratna**, Saowaluck Tibpromma, Tipprapa Promthep, Sararat Monkhang and Ratchadawan Cheewangkoon (2022) Worldwide Checklist on Grass Fungi: What Do We Know So Far in Ascomycota. *Chiang Mai Journal of Science* 49(3): 742 – 984.
- 16) Ruwanthika Kalamulla, **Samantha C. Karunaratna**, Suhail Asad, Saowaluck Tibpromma, Steven L. Stephenson, Itthayakorn Promputtha and Neelamanie Yapa (2022) Biocontrol Potential of Arbuscular Mycorrhizal Fungi on Soil-borne Pathogens in Rice and Other Crops. *Chiang Mai Journal of Science* 49(3): 730 – 741.
- 17) Xu, R., Thiyagaraja, V., Dai, D. Q., **Karunaratna, S. C.**, & Tibpromma, S. (2022). Additions to *Fitzroyomyces* (Stictidaceae, Ascomycota) from Yunnan Province, China. *Phytotaxa*, 548(2), 253-266.
- 18) Kalamulla, R., **Karunaratna, S. C.**, Kumla, J., & Yapa, N. (2022) Arbuscular Mycorrhizal Fungi Community Dynamics and Functioning in Different Rice Cultivation Systems. *Chiang Mai Journal of Science* 49(3): 598-607.
- 19) Monthien Phonemany, Allen Grace T. Niego, **Samantha C. Karunaratna**, Yuwei Hu, Thatsanee Luangharn, Phongeun Sysouphanthong, Saisamorn Lumyong, Rui-Lin Zhao, Mao-Qiang He, Naritsada Thongklang and Kevin D. Hyde (2022) <https://gmsmushrooms.org/>: A comprehensive Online Database of Mushrooms in the Greater Mekong Sub Region. *Chiang Mai Journal of Science* 49(3): 538 – 550.
- 20) Nakarin Suwannarach, Jaturong Kumla, Surapong Khuna, Nopparat Wannathes, Naritsada Thongklang, Phongeun Sysouphanthong, Thatsanee Luangharn, Sarunyou Wongkanoun, **Samantha Chandranath Karunaratna**, Yuan-Shuai Liu, Thitiya Boonpratuang, Natthawut Wiriyathanawudhiwong, Rattaket Choeyklin, Kevin D. Hyde and Saisamorn Lumyong (2022) History of Thai Mycology and Resolution of Taxonomy for Thai Macrofungi Confused with Europe and American Names. *Chiang Mai Journal of Science* 49(3): 654 – 683.
- 21) Malook, S.U.; Maqbool, S.; Hafeez, M.; **Karunaratna, S.C.**; Suwannarach, N. Molecular and Biochemical



Mechanisms of Elicitors in Pest Resistance. *Life* 2022, 12, 844.

- 22) Tian, X., Tibpromma, S., Karunarathna, S. C., Dai, D., Lu, Y., Mapook, A., & Jayawardena, R. S. (2022). A new species and a new host record of *Pseudoberkleasmiium* (Pseudoberkleasmiaceae, Dothideomycetes) from *Cocos nucifera* and *Zea mays* in northern Thailand. *Phytotaxa*, 547(3), 232-242.
- 23) Zhang SY, Tibpromma S, Karunarathna SC, Ye S, Mapook A, Wang YH, Xu JC 2022 – Endophytic fungi of agarwood and their chemical compounds: a review. *Fungal Biotech* 2(2), 16–35, Doi 10.5943/FunBiotec/2/2/2
- 24) Phukhamsakda, C., Nilsson, R. H., Bhunjun, C. S., de Farias, A. R. G., Sun, Y. R., Wijesinghe, S. N., **Karunarathna, S. C.**,... & Hyde, K. D. (2022). The numbers of fungi: contributions from traditional taxonomic studies and challenges of metabarcoding. *Fungal Diversity*, 1-60.
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