

CURRICULUM VITAE



DR. PONSUGE KAVINDA SUDHARAKA TISSERA

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<https://scholar.google.com/citations?hl=en&user=V-57cGMAAAAJ>

<https://www.researchgate.net/profile/Kavinda-Tissera/publications?sorting=recentlyAdded&editMode=1>

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Sex Male | Date of birth 02/09/1986 | Marital status Single | Nationality Sri Lankan

PRESENT APPOINTMENT

Senior Lecturer (Grade II) in Department of Medical Laboratory Science, Faculty of Allied Health Sciences, University of Peradeniya, from March 21, 2022

PROFESSIONAL QUALIFICATIONS

B.Sc. (Hons) in Medical Laboratory Science 2008-2013

Faculty of Allied Health Sciences, University of Peradeniya, Sri Lanka.

M.Sc. in Medical Microbiology 2014-2016

Post Graduate Institute of Science, University of Peradeniya, Sri Lanka.

M.Sc. Ph.D. in Applied Life Science 2016-2020

(Specialized in Microbiology, Molecular biology & Immunology)

Graduate School, Yonsei University College of Dentistry, Seoul, South Korea.

WORK EXPERIENCE

- **Senior Lecturer (Grade II)** in Department of Medical Laboratory Science, Faculty of Allied Health Sciences, University of Ruhuna, from October 11, 2021 to March 16, 2022

CURRICULUM VITAE

- **Post-doctoral researcher** in Department of Oral biology/ Microbiology, Yonsei University with the collaboration at Laboratory of Oral Medicine, Guangzhou Institute of Oral Disease, Affiliated Stomatology Hospital of Guangzhou Medical University, Guangzhou, China from March 01, 2020 to June 11, 2021
- **Voluntary Medical Laboratory Scientist in the COVID19 PCR diagnostic team** at the Department of Microbiology, Faculty of Medicine, University of Peradeniya from February 15, 2021 to August 12, 2021
- **Scientist (provide consultancy and staff training) at Molecular laboratory for COVID-19 PCR**, Wayamba Diagnostic Medical Laboratory (Pvt) Ltd from 4th June, 2021
- **Teaching assistant**, Department of Oral biology/ Microbiology, Yonsei University College of Dentistry, Seoul, South Korea. (April 2016 – Feb 2020)
- Worked as a **Demonstrator** in the Department of Medical Laboratory Science, Faculty of Allied Health Sciences, University of Peradeniya from 2014 to 2015.
- Employed at The Lanka Hospitals Corporation PLC and LANKA HOSPITAL DIAGNOSTICS (PVT) LTD in the capacity of **Medical Lab technician** from 2013 to 2014.

EDUCATION AND TRAINING

Mar 2016-

Feb 2020

Joint Masters & Doctoral Degree / PhD in Applied Life Science (**GPA 4.15/4.30**)

Department of Oral Biology/ Microbiology, Yonsei University College of Dentistry, Yonsei University, Seoul, South Korea.

PhD Thesis: Genesis of multi-*cagA* genotype and its modulations during co-infection

Jun 2014-

Feb 2016

Master of Science in Medical Microbiology – 2nd Class (**GPA 3.61/4.0**)

Post Graduate Institute of Science, University of Peradeniya, Sri Lanka.

MSc Thesis: Mechanisms of resistance and clonality among Gram negative bacteria isolated from Endo Tracheal secretions of patients admitted to an intensive care unit with high antibiotic pressure

Dec 2008-

Oct 2013

Bachelor of Science in Medical Laboratory Science – 2nd Class

Faculty of Allied Health Sciences, University of Peradeniya, Sri Lanka.

Primary & Secondary
Education

Dharmaraja Collage, Kandy, Sri Lanka. (1992-2006)

Other

- Certificate of education on LMO (Living Modified Organism) Research Facility Users in 2016 by National Research Safety Headquarters, South Korea.
- Diploma in Information Technology, University of Colombo, Sri Lanka.
- Certificate in Human Resource Management (CCHRM) in Institute of Personal Management (IPM), Sri Lanka.
- Diploma in English & Advanced Diploma in English in ICBT campus, Kandy, Sri Lanka.
- Certificate for the course completion of “Bioinformatics for Biologists: An Introduction to Linux, Bash Scripting, and R” by Wellcome Genome Campus Advanced Courses and Scientific Conferences on March 2021 conducted via Future Learn.
- Certificate in “Bacterial Genomes I: From DNA to protein function using bioinformatics” by Wellcome connecting Science on April 2021 conducted via Future Learn.
- Certificate in “Bacterial Genomes: Antimicrobial Resistance in Bacterial Pathogens” by Wellcome connecting Science on May 2021 conducted via Future Learn.
- Diploma in Computer Hardware Engineering, Raytronics Computer Systems, Kandy.
- Attended various workshops conducted by the Association of Medical Laboratory Technologists (AMLT-SL) and Sri Lankan Society of Microbiology (SSM).
- Active participant in the quality initiatives which enabled Lanka Hospitals to receive the “Joint Commission International Accreditation” in 2014.
- Certificate of proficiency as Medical Laboratory Technologist by the Ceylon Medical College Council.
- Certificate of registration as a member of a profession supplementary to medicine by Sri Lanka Medical Council (Part: B No: 2098).
- High Distinction for Science in Sinhalese and Credit for English at International Competitions for Schools in 2001 organized by Educational Testing Centre, University of New South Wales.
- Certificate in First Aid (St. John Ambulance Association, Sri Lanka) in 2009

Memberships

- Member of SSM (Sri Lankan Society for Microbiology) (SSM200)
- Member of SLSMLS (Sri Lanka Society for Medical Laboratory Science)

PERSONAL SKILLS

Research interests

- Mechanisms on *Helicobacter pylori*-induced Gastric cancer
- *Helicobacter pylori* virulence factors
- Multi-*cagA* genotype in *H. pylori*
- MAPK/ERK cell signaling
- Antimicrobial resistance

Communication skills

Mother tongue: Sinhala

Language	Understanding		Speaking		Writing
	Listening	Reading	Spoken Interaction	Spoken Production	
Sinhala	Very Good	Very Good	Very Good	Very Good	Very Good
English	Very Good	Very Good	Very Good	Very Good	Very Good
Korean	Basic user	Basic user	Basic user	Basic user	Basic user

Job-related skills

Sound knowledge in microbiology techniques, molecular biology techniques including PCR, PCR mutagenesis, genotyping, Real-time PCR, DNA recombination & cloning.

Comprehensive and skilled in using techniques related to cell biology such as cell culture, siRNA and peptide transfection, cell elongation assay, recombinant protein treatment, Immunoblot assays (western blot), Immuno-fluorescence microscopy (LSM-700) and ELISA.

Good knowledge in medical & cellular microbiology, molecular biology, immunology, antimicrobial resistance, *Helicobacter pylori*, virulence factors, and cell signaling.

Digital competence

Sound knowledge on office suite such as word processor, spread sheet, presentation; illustration; software for statistical analysis and bioinformatics (IBM SPSS, Vector NTI, MEGA7).

SPECIAL AWARDS

- Won **best poster prize** awarded by the Federation of European Microbiological Societies (FEMS) in *Campylobacter, Helicobacter* and Related Microorganisms Conference 2019 which was held in Belfast, UK.
- Awarded '**President's Award for Scientific Publication**' organized by the National Research Council of Sri Lanka in 2019 for the research work published in 2017.
- Won **poster award** in Yonsei dentistry symposium held on 2019 in Yonsei university, South Korea.
- A recipient of a **foreign scholarship** (full tuition) from the Graduate School of Yonsei University, Seoul, South Korea.

PUBLICATIONS

Published as Full Papers

- Su H, **Tissera K**, Jang S, Choi YH, Kim A, Cho YJ, Li M, Gunawardhana N, Merrell DS, Ge L, Cha JH. Evolutionary mechanism leading to the multi-cagA genotype in *Helicobacter pylori*. *Sci Rep*. 2019 Aug 1;9(1):11203. doi: 10.1038/s41598-019-47240-2. (Impact factor: 4.120 in 2019-2020; *Co-first author*)
- **Tissera K**, Liyanapathirana V, Dissanayake N, Pinto V, Ekanayake A, Tennakoon M, Adasooriya D, Nanayakkara D. Spread of resistant gram negatives in a Sri Lankan intensive care unit. *BMC Infect Dis*. 2017 Jul 11;17(1):490. doi:10.1186/s12879-017-2590-7. (Impact factor: 2.580 in 2019-2020)
- **Tissera K**, Kim MA, Lai J, Angulmaduwa S, Kim A, Merrell DS, Kim JH, Su H, Cha JH. Characterization of East-Asian *Helicobacter pylori* encoding Western EPIYA-ABC CagA. *Journal of Microbiology* 2021 Nov 10; Vol. 60. (Impact factor: 3.422 in 2020)
- Su H, Bak EJ, Kim A, **Tissera K**, Cha JH, Jang S. *Helicobacter pylori*-mediated gastric pathogenesis is attenuated by treatment of 2-deoxyglucose and metformin. *J Microbiol*. (2022). <https://doi.org/10.1007/s12275-022-2130-z>

**Research Presentations at International Conferences / Symposia - Published as Posters
& Abstracts in Proceedings**

- **Tissera K**, Su H, Jang S, Cha JH. (2019). Evolutionary mechanism behind the genesis of multi-*cagA* genotype in *Helicobacter pylori*. CHRO 2019 *Campylobacter, Helicobacter* and Related Organisms. 8th to 11th September 2019 at ICC, Belfast, Northern Ireland, UK.
- **Tissera K**, Jang S, Su H, MA Kim, J Lai, Cha JH. (2019). CHA-ud, a novel genetic element which originates multiple *cagA* genotypes in *Helicobacter pylori*. 60th Anniversary 2019 International Meeting of the Microbiological Society of Korea. 17th to 19th April 2019 at ICCJEJU, Jeju, South Korea.
- **Tissera K**, Su H, Jang S, Cha JH. (2019). An evolutionary perspective on the advancement of multi-*cagA* genotype in *H. pylori*. The 9th Japan-Thailand-Korea Joint Symposium. 17th to 18th October 2019 at Yonsei University, Seoul, South Korea.
- **Tissera K**, Jang S, Su H, MA Kim, J Lai, Cha JH. (2018). Identification of genetic element behind the formation of multiple *cagA* genotypes in *H. pylori*. MSK 2018 international meeting of the Microbiological Society of Korea. 25th to 27th April 2018 at Alpensia Resort Convention center, PyeongChang, South Korea.
- **Tissera K**, Jang S, Su H, Cha JH. (2017). How *H. pylori* changes *cagA* gene number. MSK 2017 international meeting of the Microbiological Society of Korea. 26th to 28th April 2017 at BEXCO, Busan, South Korea.
- Evolutionary mechanism leading to the genesis of multi-*cagA* genotype in *Helicobacter pylori*. **Tissera K**, Su H, Jang S, Cha JH. 10th Annual conference of the Sri Lankan Society for Microbiology 2021.
- Dynamic Variation of Multiple CagA EPIYA-C Motifs in East-Asian *Helicobacter pylori*. **Tissera K**, Su H, Cha JH. 19th Academic Sessions University of Ruhuna 2022. 02nd March 2022 at Faculty of Technology, University of Ruhuna, Sri Lanka.
- Characterization of East-Asian *Helicobacter pylori* encoding Western EPIYA-ABC CagA. **Tissera PKS**, Kim MA, Lai J, Angulmaduwa S, Su H, Cha JH. MSF Asia Scientific Days & International Conference on Medical Sciences 2022. 04th August 2022 at Faculty of Medical Sciences, University of Sri Jayewardenepura, Sri Lanka.

EXTRA CURRICULAR ACTIVITIES

- Captain of the Tennis team of University of Peradeniya in 2011 & Vice captain in 2010.
- Represented the university tennis team at the 7th UITM International Sports Fiesta held at the Universiti Teknologi MARA in Shah Alam, Selangor, Malaysia in 2012.
- Won University Colors in Tennis for 2009, 2010, 2011 & 2012.
- Won Sri Lanka Universities' Colours Awards (SLUSA awards) in Tennis for 2012
- Completed hiking the highest mountain in the Republic of Korea, Mt. Hallasan in 2018.
- Vice president of the Sri Lankan Students Association - Korea (SLSA-Korea) in 2018-2019

REFEREES

- Jeong-Heon Cha Ph.D.
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Distinguished Professor
Key Laboratory of Basic and Applied Research of Oral Regenerative Medicine,
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Guangzhou,
China.
- Rasika P Illeperuma
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Senior Lecturer,
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