



- **Name:** Wah Wah Aung
- **Current Position:** Director (Research),
Advanced Molecular Research Centre
Department of Medical Research, Ministry of Health and Sports

• **Country:** Myanmar

• **Educational Background:**

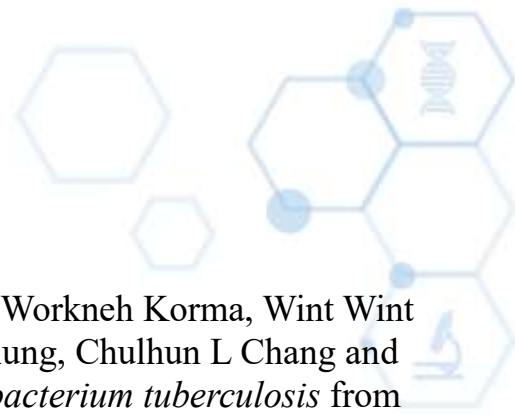
- 1990 University of Medicine (1), Yangon- MBBS
- 1998 University of Medicine (1), Yangon - M.Med.Sc.(Microbiology)
- 2008 University of Medicine (1), Yangon - Ph.D

• **Professional Experience:**

- 1993-1994 Assistant Surgeon, Women and Children's Hospital, South Okkalapa, Yangon
- 1994- 2004 Research Officer, Bacteriology Research Division, DMR, Myanmar
- 2004- 2009 Research Scientist, Bacteriology Research Division, DMR, Myanmar
- 2009- 2015 Deputy Director, Bacteriology Research Division, DMR, Myanmar
- 2015 to date Director (Research), Advanced Molecular Research Centre, DMR, Myanmar

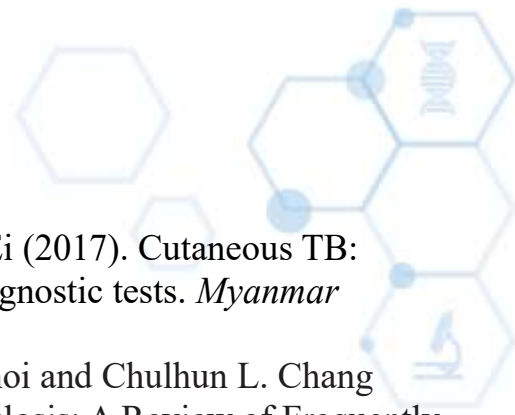
• **Professional Organizations:**

- Microbiology Society, Myanmar Medical Association: Joint Secretary (2004-2006), Secretary (2006-2008)
- Best Paper and Poster Selection Committee, Myanmar Health Research Congress: Joint Secretary (2009-2014), Secretary (2015- to date)
- Board of member of post graduates studies on Microbiology, University of Medicine (1), (2) and Defense Services Medical Academy
- Board of Member of Protocol Review Committee, Department of Medical Research
- Editorial Board of Myanmar Health Sciences Research Journal
- Member of Biosafety Expert Team (CBRN CoE Project 46, European Union)
- American Society for Microbiology: Member
- Supervision of Master and Doctorate thesis



• **Main Scientific Publications:**

1. Phyu Win Ei, Jong Seok Lee, **Wah Wah Aung**, Kim Yeun, Workneh Korma, Wint Wint Nyunt, Thyn Lei Swe, Mi Mi Htwe, Su Mon Win, Si Thu Aung, Chulhun L Chang and Hyeyoung Lee. Genotypes and genetic characters of *Mycobacterium tuberculosis* from Myanmar using three typing methods. *Infection, Genetics and Evolution* 2019. In Press. Available online 19 August 2019, 104005. <https://doi.org/10.1016/j.meegid.2019.104005>
2. Phyu Win Ei, Jong Seok Lee, **Wah Wah Aung**, Kim Yeun, Workneh Korma, Wint Wint Nyunt, Thyn Lei Swe, Mi Mi Htwe, Su Mon Win, Si Thu Aung, Chulhun L Chang and Hyeyoung Lee. Genotypes and genetic characters of *Mycobacterium tuberculosis* from Myanmar using three typing methods. *Infection, Genetics and Evolution* 2019. In Press. Available online 19 August 2019, 104005. <https://doi.org/10.1016/j.meegid.2019.104005>
3. Phyu Win Ei, Wah Wah Aung, Wint Wint Nyunt, Thyn Lei Swe, Si Thu Aung, Mi Mi Htwe, Aye Su Mon, Su Mon Win, Chulhun L. Chang, Hyeyoung Lee and Jong Seok Lee (2018). Evaluation of Mycobacterial Intersperses Repetitive Unit-Variable Number Tandem Repeat Typing to discriminate *Mycobacterium tuberculosis* strains from Myanmar. *Southeast Asian Journal of Tropical Medicine and Public Health*, 49(22): 276-284.
4. Nan Aye ThidaOo, Lai Lai San, JeewanThapa, Khin Saw Aye, **Wah Wah Aung**, Chie Nakajima, Yazuhiko Suzuki (2018). Characterization of mutations conferring streptomycin resistance to multidrug resistant *Mycobacterium tuberculosis* isolates in Myanmar. *Tuberculosis*, 111:8-13.
5. Phyu Win Ei, **Wah Wah Aung**, Wint Wint Nyunt, Thyn Lei Swe, Mi Mi Htwe, Su Mon Win, Si Thu Aung, Chulhun L. Chang , Hyeyoung Lee and Jong Seok Lee. Extensively drug resistant tuberculosis in Myanmar: Its burden and mutations in the second-line drug targets, *International Journal of Tuberculosis and Lung Diseases* 2018. 22(1):477-53.
6. **Wah Wah Aung**, Phyu Win Ei, Wint Wint Nyunt, Mi Mi Htwe, Su Mon Win, Kay Thi Aye, Aye Su Mon, Si Thu Aung, Chulhun L Chang, Jong Seok Lee. Pyrazinamide resistance among multidrug resistant *Mycobacterium tuberculosis* isolates in Myanmar. *Antimicrob Agents and Chemother.* 62:e01984-17. <http://doi.org/0.1128/AAC.01984-17>.
7. Thi Thi Htun, Nan Aye Thida Oo, **Wah Wah Aung**, Hlaing Myat Thu, Mon Mon, Masaya Yamagushi, Shigata Kawabata, Kyaw Zin Thant. Serotype distribution and antimicrobial profile of *Streptococcus pneumoniae* among Myanmar children with acute respiratory infections. *Int J Bacteriol Parasitol* 2018. Doi:10.29011/ IJBP-101. 000001
8. Eun Taek Han, Jong Seok Lee, Jae Hun Cheong, Chulhun L Chang, Myat Htut Nyunt, **Wah Wah Aung**, Yi YiKyaw and KyawZin Thant . Current Status of Standard Diagnostics and Treatment for Malaria, Tuberculosis, and Hepatitis in Myanmar. *Lab Med Online* Vol. 7, No. 3: 94-102, July 2017
9. Amonrattana Roobthaisong, Kazuhisa Okada, Nilar Htun, **Wah Wah Aung**, Warawan Wongboot, Watcharaporn Kamjumphol, Aye Aye Han, Yi Yi, Shigeyuki Hamada. Molecular epidemiology of cholera outbreaks during the rainy season in Mandalay, Myanmar. *American Journal of Trop Med and Hygiene* November 2017, 97(5):1323-1328.



10. Khine Khine Zaw, AungGyi, **Wah Wah Aung**, Phyu Win Ei (2017). Cutaneous TB: Different clinical types and comparing the values of the diagnostic tests. *Myanmar Health Sciences Research Journal*, 29(3): 222-226.
11. Phyu Win Ei, **Wah Wah Aung**, Jong Seok Lee, Go-Eun Choi and Chulhun L. Chang (2016). Molecular Strain Typing of Mycobacterium tuberculosis: A Review of Frequently Used Methods. *Journal of Korean Medical Science*, 31: 1673-1683.
12. Phyu Win Ei, Toe Lwin, **Wah Wah Aung**, Kyaw Myint, Mi Mi Htwe, Su Mon Win. Use of IS6110 PCR assay for rapid diagnosis of genitourinary tuberculosis (2016). *Myanmar Health Sciences Research Journal*, 28(1):65-66.
13. **Wah Wah Aung**, Phyu Win Ei, Wint Wint Nyunt, Thyn Lei Swe, Thandar Lwin, Mi Mi Htwe, Kyung Jun Kim, Jong Seok Lee, Chang Ki Kim, Sang Nae Cho, Sun Dae Song, and Chulhun L. Chang (2015). Phenotypic and genotypic analysis of anti-tuberculosis drug resistance in mycobacterium tuberculosis isolates in Myanmar. *Ann Lab Med*, 35:1-6
14. **Wah Wah Aung**, Kazuhisa Okada, Mathukorn Na-Ubol, Wirongrong Natakathung, Toe Sandar, Nan Aye Thidar Oo, Mya Mya Aye, Shigeyuki Hamada (2015). Cholera in Yangon, Myanmar, 2012–2013. *Emerging Infectious Diseases*, 21 (30):543.
15. **Wah Wah Aung**, Myo Thant, Khin Thet Wai, Mya Mya Aye, Phyu Win Ei, Thuzar Myint and Moe Thidar (2013). Sexually transmitted infections among male highway coach drivers in Myanmar, *Southeast Asian Journal of Tropical Medicine and Public Health*, 44 (3): 436-447.
16. Yun Fong Ngeow, Yan Ling Wong, Kee Peng Ng, Chia Sui Ong and **Wah Wah Aung** (July 2011). Rapid, Cost-Effective Application of Tiberia TB Rapid Test for Culture Confirmation of Live and Heat-Killed *Mycobacterium tuberculosis*. *Journal of Clinical Microbiology*, 2776–2777.
17. Eizo Takahashi, Sultan Z, Shimada S, **Wah Wah Aung**, Mar Mar Nyein, Khin Nwe Oo, Nair GB, Takeda Y and Okamoto K (2008). Studies from diarrheagenic *Escherichia coli* isolated from children with diarrhea in Myanmar. *Microbiol Immunol*. 52:2-8.
18. **Wah Wah Aung**, Ti Ti, Kyu Kyu Than, Myat Thida, Mar Mar Nyein, Yin Yin Htun, Win Maung & Aye Htun (2007). Study of drug resistant cases among new pulmonary tuberculosis patients attending a tuberculosis center, Yangon, Myanmar. *Southeast Asian Journal of Tropical Medicine and Public Health*, 38(1): 104-110.
19. **Wah Wah Aung**, Mar Mar Nyein, Ti Ti & Win Maung (2001). Improved method of direct microscopy for detection of acid fast bacilli in sputum. *Southeast Asian Journal of Tropical Medicine and Public Health*, 32(2): 158-161.