

# BRMC 201- Principles and Practices of Laboratory Biosafety and Biosecurity

## Trainer Profile

### Dr Tessy JOSEPH



Dr Tessy Joseph is the Senior Assistant Director of BSL-3 Core Facility, Yong Loo Lin School of Medicine at National University of Singapore (NUS Medicine). In addition to the current portfolio in NUS, she serves in various organizations and committees at national level relating to biorisk. She also publishes and conducts trainings on related topics. Dr Joseph is a certified Biosafety Professional (RBP) by American Biosafety Association (ABSA) and International Federation of Biosafety Associations (IFBA). She is also an active member of Biorisk Association of Singapore (BAS) from its start and was a EXCO member with various roles including as President and Vice-President. She is the current President of the Association.

Dr Joseph holds a Ph.D. in Life Sciences from NUS and had worked as a Scientist in NUS Medicine for several years. Before taking up the current role with BSL-3 Core Facility in 2019, she was the Group Leader of the Biomedical Group at NUS Office of Safety Health and Environment (OSHE), that is responsible for safety and health management of research laboratories in NUS. During this period, she has gained in-depth knowledge and experience in developing and implementing various biorisk and animal research Policies and Programmes including trainings. She has obtained full qualification in Advanced Certificate in Training and Assessment (ACTA) and Biosafety Coordinator that is recognised by MOH.

### Mr Tan Song Hui



Mr Tan Song Hui currently holds the Assistant Manager position in Biosafety Level 3 (BSL-3) Core Facility, Yong Loo Lin School of Medicine, National University of Singapore (NUS Medicine). He is the programme manager overseeing the overall administration and as chief liaison for all SkillsFuture Singapore (SSG) funded Continuing Education and Training (CET) courses and programmes offered by NUS Medicine BSL-3 Core Facility. He also helms the role of Laboratory Manager of NUS Medicine's Biosafety Level 2 enhanced (BSL-2e) facility, ensuring the implementation of Biorisk Management Programme in BSL-2e facility. In year 2022, Song Hui had successfully attained 2 Professional Certifications from International Federation of Biosafety Associations (IFBA) in "Biorisk Management" and "Biological Risk Assessment". As a junior Biosafety Specialist, he also served as an EXCO member in Biorisk Association of Singapore (BAS) for 2022-2023.

Song Hui holds a Master's Degree in Biomedical Engineering and a Bachelor of Science with Honours degree from NUS. He started his career in Mechanobiology Institute (MBI), Singapore, as a Research Assistant, studying the mechanobiology of cell adhesions, with extensive experience in cell culture, cellular protein analysis, and super-resolution live cell imaging in both BSL-1 and BSL-2 laboratory settings. After accomplishing his scientific research publications, he continued to serve the Institute, which operates the BSL-2 research facility in Open Lab concept, as a core facility Laboratory Executive, supporting all aspects of core research laboratory management and conducting safety trainings to laboratory users. He was the chief trainer in the Institute for facility orientation, laboratory procedures, and all safety

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trainings. He also helmed the role of deputy Safety Coordinator overseeing the research safety matters in MBI.

### Ms Kong Hao Yuin



Ms Kong Hao Yuin is a Senior Laboratory Executive of the Biosafety Level 3 (BSL-3) Core Facility in Yong Loo Lin School of Medicine, National University of Singapore. She has over 3 years of experience in administration, procurement, and support of day-to-day operations in the laboratory. She is also one of the main trainers in the specialised BSL-3 training. She has obtained certification in the 'Professional Biorisk Management Training' organised by the National University of Singapore, which is recognised by the Singapore Ministry of Health (MOH) to become a Biosafety Coordinator. She is also certified in 'Biorisk Management' and 'Biological Risk Assessment' by the International Federation of Biosafety Associations (IFBA).

Holding an Honours Degree in Life Sciences, she has participated in the research in dengue virus, and has experience in mammalian cell-culture, virology and molecular techniques. She has also previously worked in a microbiological laboratory quality management department at Baxter Healthcare SA, where she is in charge of performing environmental monitoring of microbial and particulate matter in cleanrooms.