

BIOGRAPHY

Associate Prof Dr Badrul Hisham Bin Yahaya

Assoc. Prof Dr. Badrul Hisham Bin Yahaya (Ph.D.), currently is the Director of Animal Research and Service Centre (ARASC) of Universiti Sains Malaysia, a Principal Investigator and the former Head of Regenerative Medicine Cluster, Advanced Medical and Dental Institute (AMDI), Universiti Sains Malaysia. Dr Badrul obtained his BSc (with Hons) degree in Genetics from the Universiti Kebangsaan Malaysia (2002), MSc in Human Genetics from the Universiti Sains Malaysia (2006). Dr. Badrul was awarded a fellowship of Academic Staff Training Scheme (ASTS) from the Universiti Sains Malaysia and the Malaysian Government to pursue his MSc and Ph.D. degrees. For his PhD, Dr. Badrul received his training at the Roslin Institute and Royal (Dick) School of Veterinary Studies, the University of Edinburgh, Scotland. In professional bodies, Dr. Badrul is an active member in various national and international societies. Dr. Badrul received numerous invitation from local and international bodies to share his current findings in stem cell therapy and cancer stem cell research in various scientific meetings. Currently he is the Tissue Engineering and Regenerative Medicine Society of Malaysia (TESMA) Board Member (2017 – 2019) where he was the vice president of TESMA (2015-2017), and former Board Member of Malaysian Society for Stem Cell Research and Therapy (MSCRT). Dr Badrul is a Visiting Professor at Xinxiang Medical University (XXMU) Henan Province, China and Fellow Academic of Kolej Burhanuddin Helmi, Universiti Kebangsaan Malaysia (UKM), Bangi. Dr Badrul is an Editor-in-Chief of the Journal of Biomedical and Clinical Sciences (JBACS) published by AMDI USM. Dr Badrul is also an Editorial Board Members, Biomedical Research and Therapy journal, the official journal of Stem Cell Institute, University of Science, VNUHCM, Ho Chi Minh City, Vietnam (the journal is indexed in Web of Science and Scopus).



His current research works involve a basic understanding on pathophysiological changes of the airway during injury and repair. To achieve that, his group has developed animal model for both chronic and acute lung injuries using rabbit and rat as model. In cell therapy, his group has innovated an aerosol-based cell delivery as a technique for delivering cells into lungs to treat acute and chronic lung diseases using animal as a model. His group currently has established a cell-free therapy approach as an alternative treatment for chronic lung diseases. Besides, Dr Badrul group also working on cancer stem cells and to study their roles in chemo-resistant and metastasise during lung cancer development and progression by looking at their transcriptomic composition and pathways for future targeted therapy for lung cancer. As a principal investigator, Dr. Badrul has received research grants from various funding bodies such as the Universiti Sains Malaysia (Short Term and Research University Grant Schemes), the Ministry of Science, Technology and Innovation (MOSTI) of Malaysia (E-Science Fund), the National Institute of Health/Ministry of Health (NIH/MOH), Malaysia, the Ministry of Higher Education, Malaysia (the Transdisciplinary Research Grant Scheme (TRGS) and the Fundamental Research Grant Scheme (FRGS)) to work on various aspect of pulmonary researches, international grant from Nippon Sheet Grant Foundation (NSGF) to study on 3d-printed trachea and collaborative grant from Henan Province, China. There are numbers of masters and PhD students graduated under his supervision in various aspect of research related to regenerative medicine. Dr Badrul is a prominent speaker in the field of stem cell and regenerative medicine, and he has been invited to speak about his research findings in various local and international meetings.