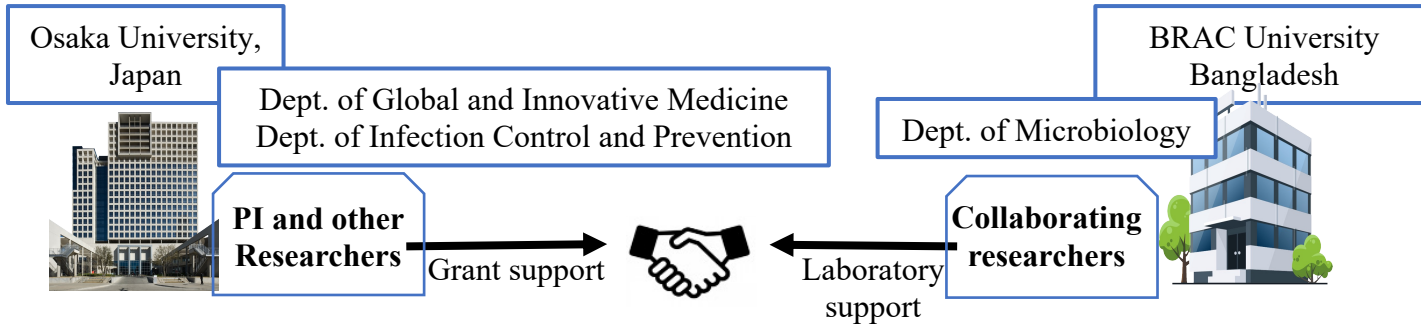


Prevalence and dissemination patterns of Carbapenemase Producing Enterobacteriaceae in the environment of Dhaka, Bangladesh



• Study Design

Cross-sectional Bacterial surveillance using selective agar plate (CHROMagar™ ECC with meropenem) and molecular techniques

• Study sample

Collection of 25gm of 200 different Human foods and 20 ml of 100 water samples (50 wastewater and 50 tap water samples)

• Sample collection

Sample collection sites were determined as grocery stores and open food markets in the southern part of Dhaka City: 3 markets are from hospital adjacent areas and 3 from community areas/far from hospital.

Timeline

	2021				2022		
	1Q	2Q	3Q	4Q	1Q	2Q	3Q
	Jan-Mar	Apr-June	July-Sep	Oct-Dec	Jan-Mar	Apr-June	July-Sep
Conceptualization	■						
Official contract with Bangladeshi researchers	■	■					
Shipment of instruments and study media to Bangladesh			■				
Pilot surveillance (local food markets and wastewater)			■				
Sample collection (local food markets, wastewater and drinking water)				■	■		
Transport of bacterial isolates to Japan					■		
Whole genome sequencing						■	
Plasmid analysis						■	
Data editing and interpretation							■
Manuscript preparation							■

Dhaka City Corporation: North and South

