

## **Supplemental material**

### **Spatiotemporal Distributions and Land-Use Regression Models of Ambient Bacteria and Endotoxins in the Greater Taipei Area**

**Kraiwuth Kallawicha, Shih-Chun Candice Lung, Ying-Chih Chuang, Chih-Da Wu, Tsun-Hsuan Chen, Ying-Jie Tsai, Hsing Jasmine Chao**

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**Supplemental material, Table S1.** Land-use types and potential sources of bioaerosols included in the study

Land use type			
Land use categories	Variables	Land use categories	Variables
LU 1	Rice field Dry land Fruit tree	LU 6	Aquaculture Pasteur land Beach
LU 2	Green house	LU7	Forest
LU 3	School Social welfare facilities	LU8	Health care facilities Sport venue
LU 4	Commercial Residential	LU9 LU 10	Industrial Green park
LU 5	Water conservancy area	LU 11	Playground
Point of Interest (POI)			
POI 1	Waste disposal sites, nightclubs, restaurants, parking and sports venues (such as sports, gym, etc.).		
POI 2	Supermarkets, florists, hospitals, and pet shops		
POI 3	Night market, traditional markets, manufacturing wholesale factory		
POI 4	Industrial area, agriculture and animal husbandry, and laundries		
POI 5	Schools and gas stations.		

**Land-use value** is the proportion of the sum area of each subtype of land use in each LU group ( $m^2$ ) per area of a given buffer zone ( $m^2$ )

Example: LU 1 of a 1000 m radius = [rice field area + dry land area + fruit tree area] ( $m^2$ ) /  $[(\pi \times 1000^2)]$  ( $m^2$ )

**Point of interest (POI)** value is the sum of the number of sites in each POI group in a given buffer zone