

Table S1 . Concentrations of uranium (U) and thorium (Th) in the soils and crops studied.

Sample Type	Description	U	Th
		mg kg ⁻¹	
Soils	Oil palm cultivation	2.15 ± 0.19	7.25 ± 4.12
	Reference area	1.51 ± 0.25	5.79 ± 2.91
	Black pepper cultivation	3.48 ± 0.30	10.7 ± 5.04
	Reference area	1.71 ± 0.15	6.64 ± 3.25
	Citrus cultivation	2.19 ± 0.20	9.00 ± 1.33
	Reference area	2.99 ± 0.47	10.3 ± 1.87
Crops	Oil Palm	0.04 ± 0.00	0.10 ± 0.03
	Black Pepper	0.05 ± 0.01	0.48 ± 0.36
	Citrus	0.08 ± 0.04	0.18 ± 0.08

Table S2. Activity concentrations, enrichment and bioaccumulation of potassium (⁴⁰K) in the soils and crops studied.

Sample Type	Description	Activity (Bq kg ⁻¹)	Enrichment	Bioaccumulation
Soils	Oil palm cultivation	23.38 ± 0.8	1.50 ± 0.2	-
	Reference area	15.59 ± 0.5	-	-
	Black pepper cultivation	25.98 ± 3.0	1.23 ± 0.1	-
	Reference area	15.59 ± 2.1	-	-
	Citrus cultivation	18.19 ± 1.3	0.53 ± 0.3	-
	Reference area	31.17 ± 2.5	-	-
Crops	Oil Palm	282.74 ± 38.25	-	12.09 ± 5.1
	Black Pepper	569.66 ± 11.29	-	21.93 ± 6.7
	Citrus	539.40 ± 23.91	-	29.66 ± 8.9