Table S1 Changes in soil pathogens

Year	Treatment	*Fusarium* spp. (CFU/g soil)	*Phytophthora* spp. (CFU/g soil)
2022	CK	925.00a	222.50a
	Pic	146.75c	32.50c
	SC	241.50b	74.00b
2023	CK	922.67a	220.00a
	Pic	108.67c	31.00c
	SC	210.00b	69.33b

Table S2 Changes in growth indicators and yield of yam

Year	Treatment	Yield (g/per plant)	Diseased plant rate (%)	Length (cm)	Diameter (mm)
2022	CK	203.80c	36.50a	39.10c	29.28a
	Pic	353.78a	9.00b	78.90b	24.38b
	SC	319.70b	9.00b	97.20a	21.51c
2023	CK	192.60c	40.00a	36.27c	29.33a
	Pic	365.07a	6.33b	83.77b	25.67b
	SC	334.03b	6.33b	100.00a	23.40c

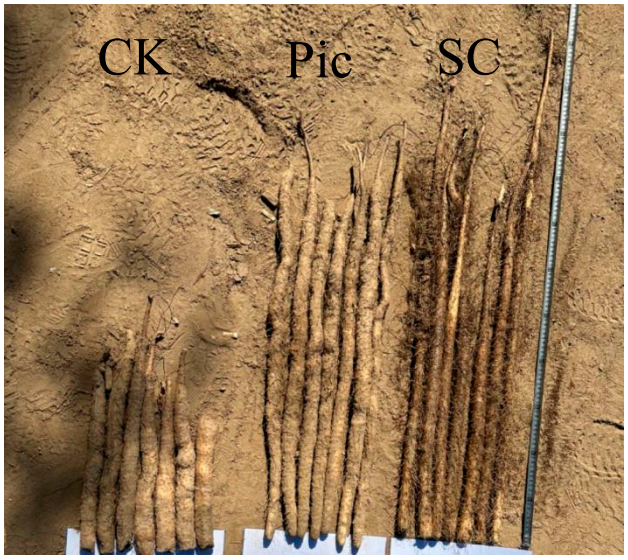


Figure S1. Each treatment of yams at harvest time