

Table S1. Chemical properties of the contaminated soils.

Soil	pH (H ₂ O)	THC (mg kg ⁻¹)	TOC (%)	Phosphate (mgkg ⁻¹)	Nitrate (mg kg ⁻¹)	Conductivity (μS cm ⁻¹)	Nutrient (mg/kg)				
							Ca	Mg	Na	K	P
Yorla10	4.80	582.90	4.12	77.45	141.45	7.23	3.33	0.00	0.00	31.66	20.63
Effurun	5.20	572.20	4.8	73.56	129.99	6.37	3.20	2.11	0.01	31.70	14.67

Table S2. Heavy metal composition of the contaminated soils.

Soil	Heavy metals (mg/kg)									
	Cd	Cu	Pb	Fe	Ni	Cr	Hg	Co	As	Zn
Yorla 10	7.32	15.39	41.44	98.21	2.65	4.60	68.11	16.10	54.1	16.45
Effurun	5.76	18.80	44.31	45.00	2.65	2.00	52.00	17.23	39.00	9.00

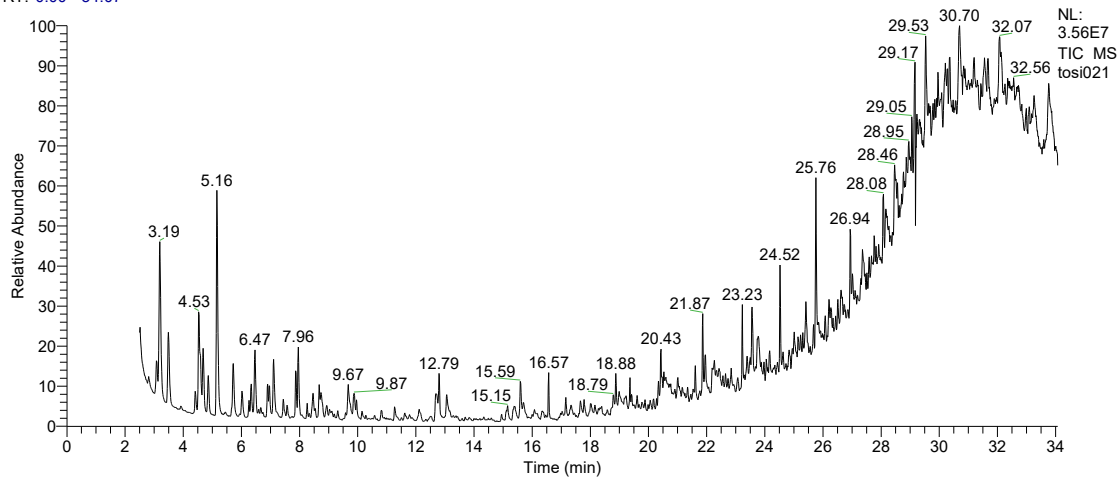
Table S3. Preliminary enzyme activities of *Aspergillus oryzae* and *Mucor irregularis* isolated from Nigerian crude oil polluted sites.

Day of Incubation	Hydrocarbon conc.	Strain	Lcc (OD/min)	LiP (OD/min)	MnP (OD/min)
Day 7	0%	B-Yorla10	0.05	-	0.18
		C-Effurun	-	-	-
	2.50%	B-Yorla10	0.07	-	0.91
		C-Effurun	0.05	0.01	-
	5%	B-Yorla10	0.09	0.05	0.78
		C-Effurun	0.05	-	-
Day 14	0%	B-Yorla10	0.01	-	0.12
		C-Effurun	0.07	-	0.01
	2.50%	B-Yorla10	0.17	-	0.12
		C-Effurun	0.10	-	-
	5%	B-Yorla10	0.09	-	0.12
		C-Effurun	0.08	-	0.03
Day 21	0%	B-Yorla10	0.09	0.07	0.18
		C-Effurun	-	0.01	-
	2.50%	B-Yorla10	0.10	0.02	0.95
		C-Effurun	0.10	-	0.05
	5%	B-Yorla10	0.06	0.06	0.92
		C-Effurun	0.09	-	0.08



Figure S1. Location of crude oil polluted sites from which fungi were isolated.

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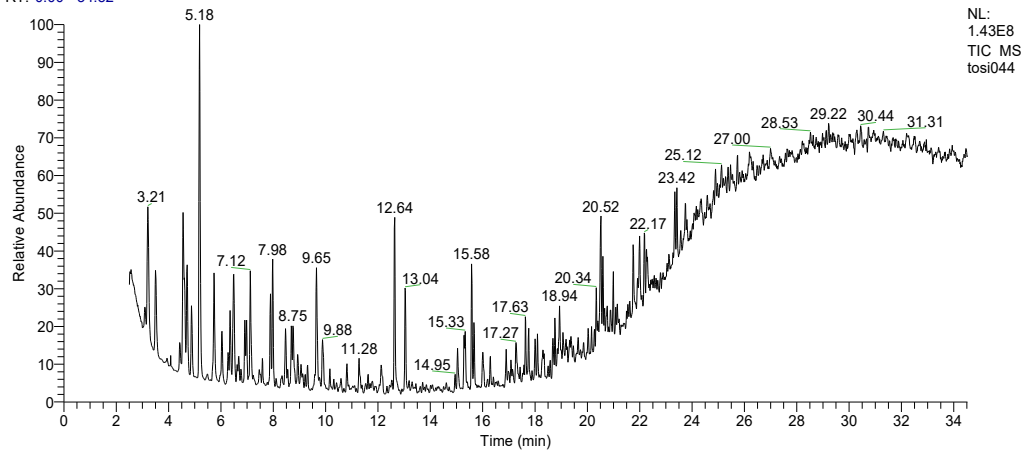


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Bb

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Cc

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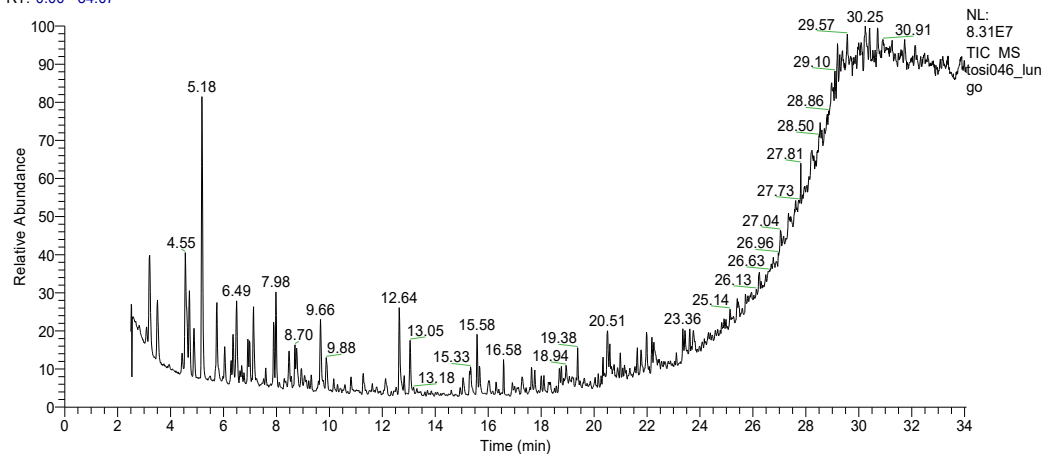


Figure S2. Degradation of complex hydrocarbon mixture (engine oil) by selected filamentous fungi as determined by GC/MS analysis.