

1 **Antibacterial and mode of action of extracts from endophytic fungi derived**
2 **from *Terminalia mantaly*, *Terminalia catappa* and *Cananga odorata***

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13 **Supplementary material 1: Endophytic fungi: their host plant, isolation site and names**

Plant name	Site of isolation	Fungi isolate	Fungal name
<i>Cananga odorata</i>	Petals	N431	<i>Unidentified fungal</i>
		N422	<i>Unidentified fungal</i>
		N399	<i>Unidentified fungal</i>
		N419	<i>Unidentified fungal</i>
		N401	<i>Unidentified fungal</i>
	Flowers	N478	<i>Unidentified fungal</i>
	Ribs	N454	<i>Aspergillus</i> sp
	Leaves	N330	<i>Diaporthe phaseolorum</i>

	Stem	N284	<i>Unidentified fungal</i>
		N283	<i>Unidentified fungal</i>
		N298	<i>Diaporthaceae sp</i>
		N289	<i>Unidentified fungal</i>
	Bark	N241	<i>Fungal sp.</i>
		N262	<i>Unidentified fungal</i>
		N263	<i>Unidentified fungal</i>
		N266	<i>Unidentified fungal</i>
		N251	<i>Unidentified fungal</i>
		N276	<i>Unidentified fungal</i>
		N256	<i>Unidentified fungal</i>
		N2541	<i>Unidentified fungal</i>
		N240	<i>Fusarium sp</i>
		N268	<i>Fungal sp</i>
	Root	N441	<i>Unidentified fungal</i>
		N448	<i>Unidentified fungal</i>
		N445	<i>Unidentified fungal</i>
	Root bark	N368	<i>Unidentified fungal</i>
	Ribs	N32	<i>Corynespora sp</i>

<i>Terminalia catappa</i>	Leaves	N89	<i>Fungal endophyte sp</i>
		N114	<i>Phomopsis sp</i>
		N108	<i>Guignardia sp</i>
	Stem	N75	<i>Pestalotiopsis sp</i>
		N74	<i>Xylaria sp</i>
		N44	<i>Unidentified fungal</i>
		N781	<i>Paraconiothyrium variabile</i>
		N51	<i>Pestalotiopsis sp</i>
		N58	<i>Unidentified fungal</i>
	Bark	N44	<i>Unidentified fungal</i>
		N101	<i>Curvularia sp</i>
		N97	<i>Trichoderma sp</i>
	Root bark	N81	<i>Phomopsis sp</i>
		N18	<i>Aspergillus sp</i>
		N13	<i>Aspergillus sp</i>
		N23	<i>Unidentified fungal</i>
			N15
		N201	<i>Colletotrichum sp</i>

<i>Terminalia mantaly</i>	Ribs	N200	<i>Fungal sp</i>
		N191	<i>Unidentified fungal</i>
		N196	<i>Unidentified fungal</i>
		N221	<i>Unidentified fungal</i>
		N230 ₂	<i>Unidentified fungal</i>
		N229 ₁	<i>Diaporthales sp</i>
	Leaves	N127	<i>Diaporthales sp</i>
		N116	<i>Phoma sp</i>
		N120	<i>Xylaria laevis</i>
	Stem	N162	<i>Diaporthe sp</i>
	Bark	N190 ₁	<i>Unidentified fungal</i>
N178		<i>Unidentified fungal</i>	

Supplementary material 2: Extraction yield (mg/200mL), and MIC ($\mu\text{g/mL}$) of ethyl acetate extracts from endophytic fungi (Mean \pm SD)

Plant name	Fungal name	Yield	EC ATCC 25922	SA ATCC 43300	SA BAA- 977	SP ATCC 49619	HI ATCC 49247	PA HM 601	KP ATCC 13883
<i>Cananga odorata</i>	<i>Unidentified fungal</i> N431	104	3.125 \pm 0.00	12.5 \pm 0.00	3.125 \pm 0.00	6.25 \pm 0.00	0.78 \pm 0.00	3.125 \pm 0.00	3.125 \pm 0.00
	<i>Unidentified fungal</i> N422	100	2.343 \pm 1.11	23.14 \pm 0.00	5.787 \pm 0.00	3.125 \pm 0.00	25 \pm 0.00	3.125 \pm 0.00	25 \pm 0.00
	<i>Unidentified fungal</i> N399	128	0.39 \pm 0.00	12.5 \pm 0.00	3.125 \pm 0.00	3.125 \pm 0.00	2.343 \pm 1.11	12.5 \pm 0.00	12.5 \pm 0.00
	<i>Unidentified fungal</i> N419	132	0.78 \pm 0.00	5.787 \pm 0.00	5.787 \pm 0.00	3.125 \pm 0.00	>25	1.56 \pm 0.00	25 \pm 0.00
	<i>Unidentified fungal</i> N401	100	1.17 \pm 0.55	6.25 \pm 0.00	6.25 \pm 0.00	3.125 \pm 0.00	1.56 \pm 0.00	25 \pm 0.00	25 \pm 0.00
	<i>Unidentified fungal</i> N478	120	12.5 \pm 0.00	25 \pm 0.00	25 \pm 0.00	3.125 \pm 0.00	25 \pm 0.00	12.5 \pm 0.00	25 \pm 0.00
	<i>Aspergillus</i> sp N454	100	1.56 \pm 0.00	1.56 \pm 0.90	3.125 \pm 0.00	3.125 \pm 0.00	0.78 \pm 0.00	3.125 \pm 0.00	6.25 \pm 0.00
	<i>Diaporthe phaseolorum</i> N330	80	1.56 \pm 0.00	5.787 \pm 0.00	5.787 \pm 0.00	3.125 \pm 0.00	25 \pm 0.00	1.56 \pm 0.00	12.5 \pm 0.00
	<i>Unidentified fungal</i> N284	106	3.125 \pm 0.00	6.25 \pm 0.00	6.25 \pm 0.00	3.125 \pm 0.00	3.125 \pm 0.00	6.25 \pm 0.00	6.25 \pm 0.00
	<i>Unidentified fungal</i> N283	69	0.78 \pm 0.00	2.343 \pm 1.11	3.125 \pm 0.00	3.125 \pm 0.00	1.56 \pm 0.00	12.5 \pm 0.00	12.5 \pm 0.00
<i>Diaporthaceae</i> sp N298	130	1.56 \pm 0.00	5.787 \pm 0.00	5.787 \pm 0.00	3.125 \pm 0.00	12.5 \pm 0.00	1.56 \pm 0.00	12.5 \pm 0.00	

<i>Unidentified fungal</i> N289	111	0.78 ± 0.00	12.5 ± 0.00	3.125 ± 0.00	3.125 ± 0.00	2.343 ± 1.11	12.5 ± 0.00	12.5 ± 0.00
<i>Fungal sp</i> N241	110	1.56 ± 0.00	23.14 ± 0.00	23.14 ± 0.00	25 ± 0.00	12.5 ± 0.00	1.56 ± 0.00	12.5 ± 0.00
<i>Unidentified fungal</i> N262	165	>25	>25	>25	>25	>25	>25	>25
<i>Unidentified fungal</i> N263	94	3.125 ± 0.00	6.25 ± 0.00	3.125 ± 0.00	3.125 ± 0.00	0.78 ± 0.00	6.25 ± 0.00	12.5 ± 0.00
<i>Unidentified fungal</i> N266	70	3.125 ± 0.00	6.25 ± 0.00	6.25 ± 0.00	6.25 ± 0.00	3.125 ± 0.00	6.25 ± 0.00	6.25 ± 0.00
<i>Unidentified fungal</i> N251	110	12.5 ± 0.00	12.5 ± 0.00	25 ± 0.00	6.25 ± 0.00	25 ± 0.00	12.5 ± 0.00	12.5 ± 0.00
<i>Fungal sp</i> N268	70	ND	23.14 ± 0.00	11.57 ± 0.00	6.25 ± 0.00	25 ± 0.00	1.56 ± 0.00	25 ± 0.00
<i>Unidentified fungal</i> N276	60	0.78 ± 0.00	3.125 ± 0.00	25 ± 0.00	3.125 ± 0.00	25 ± 0.00	25 ± 0.00	25 ± 0.00
<i>Unidentified fungal</i> N256	152	6.25 ± 0.00	6.25 ± 0.00	6.25 ± 0.00	3.125 ± 0.00	3.125 ± 0.00	6.25 ± 0.00	12.5 ± 0.00
<i>Unidentified fungal</i> N254 ₁	52	4.688 ± 0.00	12.5 ± 0.00	12.5 ± 0.00	6.25 ± 0.00	3.125 ± 0.00	6.25 ± 0.00	25 ± 0.00
<i>Fusarium sp</i> N240	160	1.56 ± 0.00	23.14 ± 0.00	11.57 ± 0.00	6.25 ± 0.00	6.25 ± 0.00	1.56 ± 0.00	12.5 ± 0.00
<i>Unidentified fungal</i> N441	109	6.25 ± 0.00	6.25 ± 0.00	6.25 ± 0.00	3.125 ± 0.00	3.125 ± 0.00	12.5 ± 0.00	12.5 ± 0.00
<i>Unidentified fungal</i> N448	70	0.78 ± 0.00	23.14 ± 0.00	5.787 ± 0.00	3.6875 ± 0.00	25 ± 0.00	0.78 ± 0.00	12.5 ± 0.00
<i>Unidentified fungal</i> N445	200	3.125 ± 0.00	23.14 ± 0.00	11.57 ± 0.00	6.25 ± 0.00	25 ± 0.00	6.25 ± 0.00	25 ± 0.00

	<i>Unidentified fungal</i> N368	123	12.5 ± 0.00	25 ± 0.00	25 ± 0.00	6.25 ± 0.00	25 ± 0.00	12.5 ± 0.00	12.5 ± 0.00
<i>Terminalia catappa</i>	<i>Corynespora</i> sp N32	70	1.56 ± 0.00	23.14 ± 0.00	11.57 ± 0.00	6.25 ± 0.00	12.5 ± 0.00	1.56 ± 0.00	12.5 ± 0.00
	<i>Fungal endophyte</i> sp N89	80	1.56 ± 0.00	23.14 ± 0.00	11.57 ± 0.00	6.25 ± 0.00	12.5 ± 0.00	1.56 ± 0.00	12.5 ± 0.00
	<i>Phomopsis</i> sp N114	140	3.125 ± 0.00	23.14 ± 0.00	11.57 ± 00	6.25 ± 0.00	12.5 ± 0.00	1.56 ± 0.00	12.5 ± 0.00
	<i>Guignardia</i> sp N108	110	2.343 ± 1.11	11.57 ± 0.00	5.787 ± 0.00	3.125 ± 0.00	12.5 ± 0.00	1.56 ± 0.00	12.5 ± 0.00
	<i>Pestalotiopsis</i> sp N75	100	3.125 ± 0.00	5.787 ± 0.00	5.787 ± 0.00	3.125 ± 0.00	25 ± 0.00	1.56 ± 0.00	25 ± 0.00
	<i>Xylaria</i> sp N74	80	4.688 ± 0.00	23.14 ± 0.00	5.787 ± 0.00	6.25 ± 0.00	12.5 ± 0.00	6.25 ± 0.00	6.25 ± 0.00
	<i>Paraconiothyrium variabile</i> N78 ₁	170	1.56 ± 0.00	23.14 ± 0.00	11.57 ± 0.00	6.25 ± 0.00	12.5 ± 0.00	1.56 ± 0.00	25 ± 0.00
	<i>Pestalotiopsis</i> sp N51	70	1.56 ± 0.00	11.57 ± 0.00	5.787 ± 0.00	3.125 ± 0.00	12.5 ± 0.00	1.56 ± 0.00	6.25 ± 0.00
	<i>Unidentified fungal</i> N58	60	3.125 ± 0.00	23.14 ± 0.00	5.787 ± 0.00	6.25 ± 0.00	25 ± 0.00	1.56 ± 0.00	12.5 ± 0.00
	<i>Unidentified fungal</i> N44	70	1.17 ± 0.00	23.14 ± 0.00	11.57 ± 0.00	6.25 ± 0.00	25 ± 0.00	1.56 ± 0.00	25 ± 0.00
	<i>Curvularia</i> sp N101	102	1.56 ± 0.00	4.69 ± 1.80	3.125 ± 0.00	3.125 ± 0.90	1.56 ± 0.90	6.25 ± 0.00	6.25 ± 0.00
	<i>Trichoderma</i> sp N97	60	0.78 ± 0.00	23.14 ± 0.00	11.57 ± 0.00	6.25 ± 0.00	25 ± 0.00	1.56 ± 0.00	25 ± 0.00
	<i>Phomopsis</i> sp N81	40	1.56 ± 0.00	11.57 ± 0.00	5.787 ± 0.00	3.125 ± 0.00	25 ± 0.00	25 ± 0.00	25 ± 0.00

	<i>Diaporthe</i> sp N162	159	>25	>25	>25	12.5 ± 0.00	>25	>25	>25
	<i>Unidentified fungal</i> N190 ₁	120	0.78 ± 0.00	23.14 ± 0.00	5.787 ± 0.00	3.125 ± 0.00	6.25 ± 0.00	1.56 ± 0.00	6.25 ± 0.00
	<i>Unidentified fungal</i> N178	134	>25	>25	>25	>25	>25	>25	>25
Reference drugs	Amoxicillin	/	4 ± 00	16 ± 0.00	64 ± 0.00	16 ± 0.00	4 ± 0.00	32 ± 0.15600	32 ± 0.00
	Ciprofloxacin	/	2 ± 0.00	4 ± 0.00	1 ± 0.00	32 ± 0.00	1 ± 0.00	1 ± 0.00	8 ± 0.00

SA: *Staphylococcus aureus*; EC: *Escherichia coli*; SP: *Streptococcus pneumoniae*; HI: *Haemophilus influenzae*; PA: *Pseudomonas aeruginosa*; KP: *Klebsiella pneumoniae*