	Infection Group	Total (Deaths)	Percent Mortality
WT	Control	4 (0)	0.0%
	NTHi only (~10 ⁸)	8 (2)	25.0%
	NTHi/Pa Dual (~108/~107)	9 (0)	0.0%
	Pa only (~107)	9 (1)	11.1%
СF	Control	4 (0)	0.0%
	NTHi only (~10 ⁸)	7 (1)	14.3%
	NTHi/Pa Dual (~108/~107)	8 (2)	25.0%
	<i>Pa</i> only (~10 ⁷)	9 (4)	44.4%

Table S1: Total mortality* rates of NTHi/Pa infected BALB/c mice

Table S2: Total mortality* rates of Smlt/Pa infected BALB/c mice

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	Infection Group	Total (Deaths)	Percent Mortality
WT	Control	3 (0)	0.0%
	Smlt only (~10 ⁷)	4 (0)	0.0%
	Smlt/Pa Dual (~107/~107)	4 (0)	0.0%
	<i>Pa</i> only (~10 ⁷)	4 (0)	0.0%
CF	Control	4 (0)	0.0%
	Smlt only (~10 ⁷)	4 (0)	0.0%
	Smlt/Pa Dual (~107/~107)	4 (0)	0.0%
	<i>Pa</i> only (~10 ⁷)	4 (0)	0.0%

Table S3: Total mortality* rates of Smlt/Pa infected C57BL/6 mice

	Infection Group	Total (Deaths)	Percent Mortality
ΜT	Control	5 (0)	0.0%
	Smlt only (~10 ⁷)	2 (0)	0.0%
	Smlt/Pa Dual (~107/~107)	3 (0)	0.0%
	<i>Pa</i> only (~10 ⁷)	3 (0)	0.0%
CF	Control	9 (0)	0.0%
	Smlt only (~10 ⁷)	9 (0)	0.0%
	Smlt/Pa Dual (~107/~107)	9 (1)	11.1%
	<i>Pa</i> only (~10 ⁷)	9 (1)	11.1%

*Mortality is defined as death prior to the end of the study

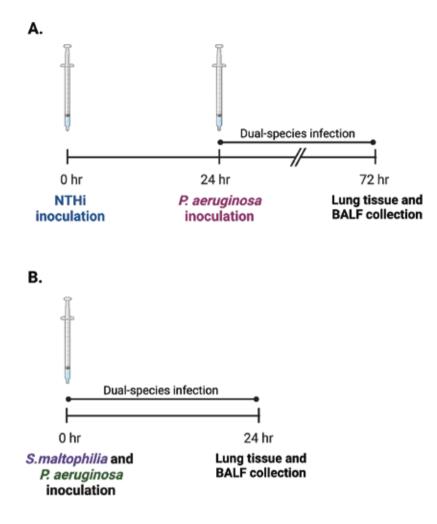


Figure S1: Timelines of polymicrobial infection.

Mice were sequentially infected with A) nontypeable *Haemophilus influenzae* (NTHi) 24 hours prior to inoculation with *P. aeruginosa*. At 72 hours post- initial infection (48 hours post- dual infection), the lung tissue and BALF were collected. Mice were concurrently infected with B) *S. maltophilia* and *P. aeruginosa* and the lung tissue and BALF were collected at 24 hours post-infection.