

***Pseudomonas aeruginosa* ExlA and *Serratia marcescens* ShlA trigger cadherin cleavage by promoting calcium influx and ADAM10 activation**

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**Supporting Information**

**S1 Table: *P. aeruginosa*, *S. marcescens* and *E. coli* strains used in this work**

Strains	Description	Abbreviations	Refs
<b><i>Pseudomonas aeruginosa</i></b>			
PAO1F (RP1831)	Wild-type laboratory strain T3SS+ ( <i>exoS,T,Y</i> )	PAO1F	[1]
CHA	Wild-type laboratory strain T3SS+ ( <i>exoS,T,Y</i> )	CHA	[2]
PA14	Wild-type laboratory strain T3SS+ ( <i>exoU,T,Y</i> )	PA14	[3]
CLJ1	Clinical strain T3SS-, ExIA+	CLJ1	[4]
IHMA879472	Clinical strain T3SS-, ExIA+	IHMA87	[5]
IHMA87 $\Delta$ <i>exIA</i>	IHMA87 with <i>exIA</i> inactivated	IHMA87 $\Delta$ <i>exIA</i>	[6]
IHMA87 $\Delta$ <i>exIA/exIA</i>	IHMA87 $\Delta$ <i>exIA</i> with plasmidic expression of <i>exIA</i>	IHMA87 $\Delta$ <i>exIA/exIA</i>	This work
IHMA87 $\Delta$ <i>exIA::exIBA</i>	IHMA87 $\Delta$ <i>exIA</i> with chromosomal insertion of <i>exIBA</i>	IHMA87 $\Delta$ <i>exIA::exIBA</i>	[6]
IHMA87 $\Delta$ <i>pilA</i>	IHMA87 with <i>pilA</i> deletion	IHMA87 $\Delta$ <i>pilA</i>	[6]
<b><i>Serratia marcescens</i></b>			
Db11	Clinical strain expressing ShIA		[7]
21C4	<i>shIB</i> mutant of Db11 with no secretion of ShIA		[8]
<b><i>Escherichia coli</i></b>			
TOP10 pSW196	Strain containing pSW196 vector only	<i>E. coli</i> -vector	[4]
TOP10 pSW196 <i>exIBA</i>	Strain expressing the <i>exIBA</i> operon	<i>E. coli</i> - <i>exIBA</i>	[4]

**References**

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## **Supplemental Method**

### ***Bacterial transmigration across Transwell devices***

Three days before infection, A549 cells ( $6 \times 10^4$ ) were seeded in DMEM medium on Transwell filters (Greiner ThinCert 24 well, 3.0  $\mu\text{m}$ ). At day 0, the medium was replaced and bacteria (MOI 10) were added in the upper compartment. At 4 h.p.i., 100  $\mu\text{L}$  of medium in the lower compartment were withdrawn, serially diluted and spotted onto LB-agar plates to determine the number of transmigrated bacteria.