

# Increased Levels of (p)ppGpp Correlate with Virulence and Biofilm Formation, but Not with Growth, in Strains of Uropathogenic *Escherichia coli*

## Supplementary Material

**Table S1.** Genetic and phenotypic characteristics.

[illegible]

[illegible]

[illegible]

[illegible]

KB102	M 2060	4			+	+	+		+			+					+	+		R (7)
KB103	M 1788	6																	S	
KB104	M 2045	5			+		+		+											R (3)
KB105	M 2227	6																	S	
KB106	M 2235	8			+															R (1)
KB107	M 2194	5			+															R (1)
KB108	M 2224	6																	S	
KB109	M 2187	5																	S	
KB110	M 2193	3			+		+		+								+			R (4)
KB111	M 2178	6																	S	
KB112	M 2182	7																	S	
KB113	M 2168	5																	S	
KB114	M 2170	6																	S	
KB115	M 2144	8																	S	
KB116	M 2162	5																	S	
KB117	M 2128	6																	S	
KB118	M 2131	10																	S	
KB119	M 2107	3																	S	
KB120	M 2112	7			+												+			R (2)
Total																			67 (55.8%)	53 (44.2%)

The following antimicrobial agents were used: amikacin (AK), nitrofurantoin (F), ampicillin (AM), ceftriaxone (CRO), norfloxacin (NOR), piperacillin (PRL), ciprofloxacin (CIP), gentamicin (CN), ceftazidime (FOX), cefuroxime (CXM), ceftibuten (CFB), meropenem (MEM), fosfomycin (FOS), azithromycin (AZM), trimethoprim/sulfamethoxazole (SXT), and tobramycin (TOB). The non-biofilm-forming strains were marked in black and biofilm forming ones in red.

**Table S2.** Table of co-occurrence of virulence factors. Statistically significant results ( $p < 0.05$ ) from Fisher's exact test and the direction of dependence determined by Pearson's test (Pearson's correlation coefficient  $r$  is shown in parentheses) are shown in green.

	<i>papC</i>	<i>hlyA</i>	<i>aer</i>	<i>cnf</i>	<i>iss</i>	<i>sitA</i>	<i>ibeA</i>	<i>agn43</i>
<i>sfa</i>	0.0002 (0.345)	<0.0001 (0.3625)	ns	0.0001 (0.3271)	0.0002 (−0.2068)	ns	ns	0.0437 (0.1950)
<i>papC</i>		<0.0001 (0.5407)	ns	<0.0001 (0.3758)	0.036 (−0.2810)	ns	ns	0.002 (0.3776)
<i>hlyA</i>			ns	<0.0001 (0.6347)	<0.0001 (−0.3780)	ns	ns	<0.0001 (0.3895)
<i>aer</i>				0.0788 (−0.1915)	ns	0.0365 (0.0183)	ns	ns
<i>cnf</i>					0.0245 (−0.2172)	ns	ns	0.00051 (0.2628)
<i>iss</i>						ns	0.0348 (0.0339)	0.0001 (−0.3638)
<i>sitA</i>							ns	ns
<i>ibeA</i>								ns

ns – non significant