

## Supplementary Materials

Article

# Molecular Epidemiology of Fosfomycin Resistant *E. coli* from a Pigeon Farm in China

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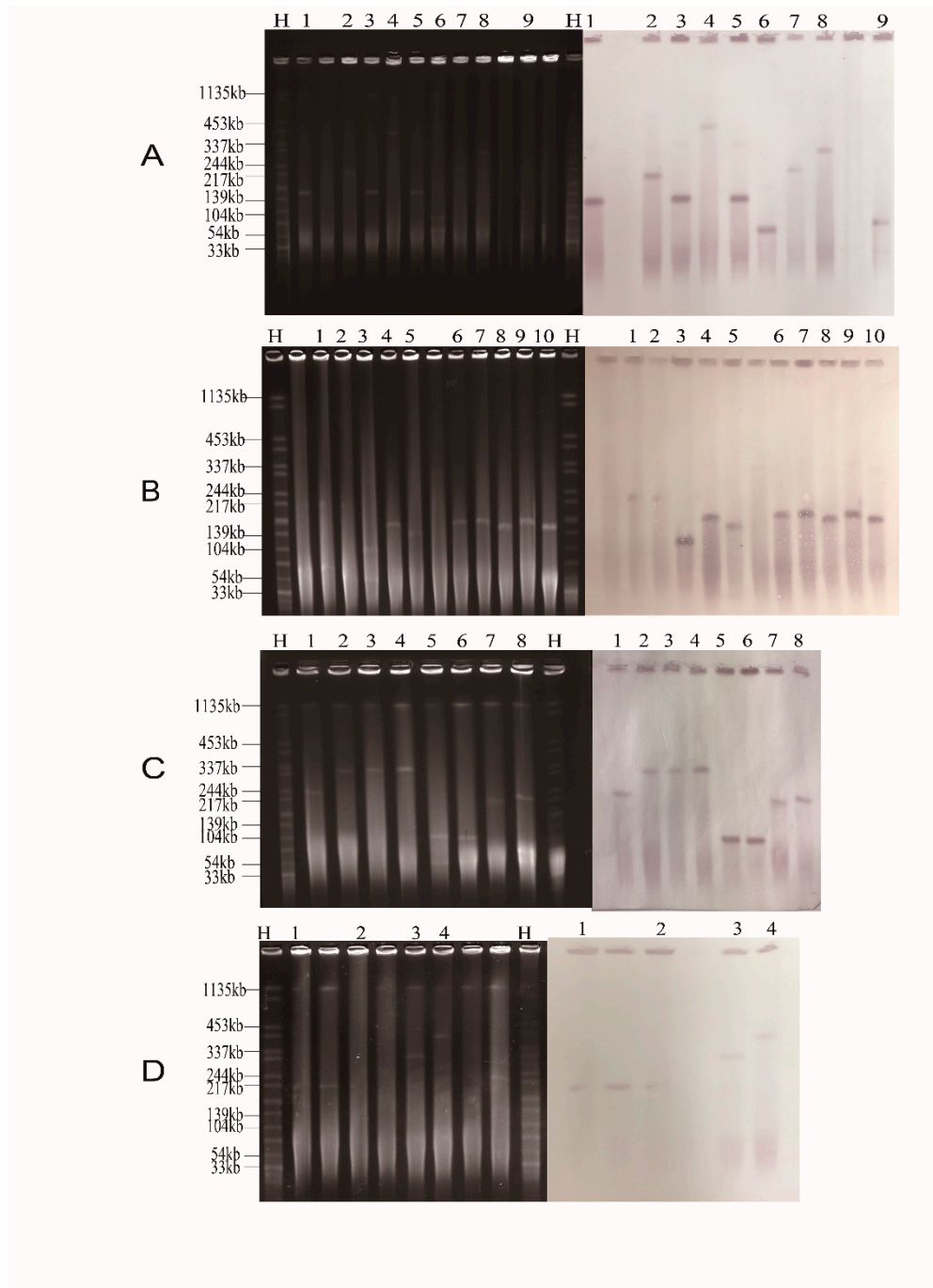
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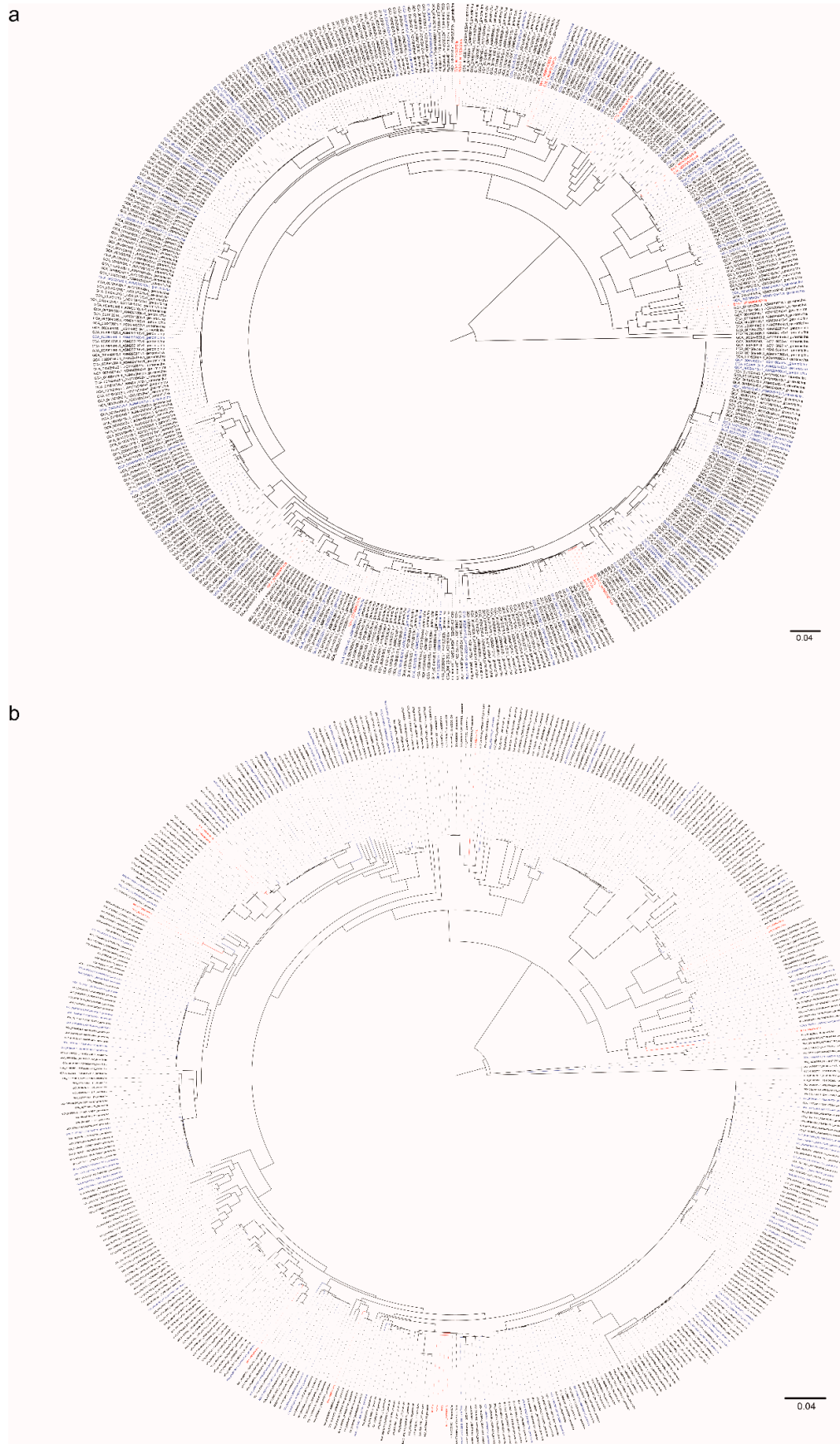
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**Figure S1.** S1-nuclease PFGE mapping and Southern blot analysis of *fosA3*-carrying plasmids on different sizes. A. Strains present in lanes 1 to 9 were B4, E9-1, M6-1, W1-1, B20-2-2, W3-1, Y1-1-1, E15-1, and M1-2, respectively. B. Strains present in Lanes 1 to 10 were E3, W6-2-1, M5-1, B20-1-1, B20-1-2, E4-1, E5, E9-2, W6-2-2, and E4-2-2, respectively. C. Strains present in Lanes 1 to 8 were X2-3, W2-1, E19-2, E13-2, B17-1-2, E11- 2, B15-2 and E2, respectively. D. Strains present in Lanes 1 to 4 were E6-1, W6-2-1, M4-1, and M1-1, respectively. H, H9812 marker.



**Figure S2.** Phylogenetic analysis of the *fosA3* positive *E. coli* from public repository and current study. The 915 *fosA3* positive *E. coli* from public repository were divided into two groups randomly and each group were employed to constructed a phylogenetic tree with the 14 isolates in current study (a and b), respectively. The red clades represent the *fosA3* positive *E. coli* in this study and the blue clades represent the selected 130 representative isolates.

**Table S1.** Sample collection, strain identification and MIC results.

[illegible]

W9-2	sewage		<i>Proteus mirabilis</i>												
X1-1	liquor peri-cardii														
X2-3	liquor peri-cardii	fosA3	<i>E. coli</i>	1	160	128	16	16	0.03	128	2	4	>256	2	FOS CTX TET CIP AMP S/T CS
X4-2	liquor peri-cardii		<i>P. mirabilis</i>												
X5-1	liquor peri-cardii		<i>E. coli</i>												
X1-3-1	liquor peri-cardii		<i>E. coli</i>												
X1-3-2	liquor peri-cardii		<i>P. mirabilis</i>												
Y1-1-1	flies	fosA3	<i>E. coli</i>	1	160	128	16	16	0.03	128	2	4	>256	2	FOS CTX TET CIP AMP S/T
Y1-1-2	flies														
Y1-2	flies														
Y1-3	flies		<i>P. mirabilis</i>												
Y2-1	flies														
Y2-2	flies		<i>C. freundii</i>												
M4-1	cecum contents	fosA3	<i>E. coli</i>	1	160	>256	16	16	0.03	64	4	8	>256	2	FOS CTX TET CIP AMP S/T CS
M4-2	cecum contents	fosA3	<i>E. coli</i>	1	160	>256	16	16	0.03	32	4	8	>256	2	FOS CTX TET CIP AMP S/T CS
E15-1	Pigeon feces	fosA3	<i>E. coli</i>	1	160	>256	2	64	0.015	64	1	8	>256	2	FOS CTX TET CIP AMP S/T GEN CS
E15-2	Pigeon feces	fosA3	<i>E. coli</i>	1	160	>256	8	16	0.03	32	2	4	>256	2	FOS CTX TET CIP AMP S/T CS
M1-1	cecum contents	fosA3	<i>E. coli</i>	1	160	>256	4	64	0.015	128	1	4	>256	2	FOS CTX TET CIP AMP S/T GEN CS
M1-2	cecum contents	fosA3	<i>E. coli</i>	1	20	>256	32	16	0.03	128	2	4	>256	1	FOS CTX TET CIP AMP CS
B17-1-1	Pigeon feces		<i>P. mirabilis</i>												
B17-1-2	Pigeon feces	fosA3	<i>E. coli</i>	1	20	>256	32	16	0.03	128	2	2	>256	1	FOS CTX TET CIP AMP CS
E16	Pigeon feces	fosA3	<i>E. coli</i>	1	160	>256	16	128	0.03	64	2	128	>256	2	FOS CTX TET CIP AMP S/T FFC CS
E19-2	Pigeon feces	fosA3	<i>E. coli</i>	1	160	>256	8	64	0.015	64	1	32	>256	2	FOS CTX TET CIP AMP S/T FFC GEN CS
B15-2	Pigeon feces	fosA3	<i>E. coli</i>	1	160	>256	8	16	0.03	32	2	8	>256	2	FOS CTX TET CIP AMP S/T CS
E2	Pigeon feces	fosA3	<i>E. coli</i>	1	160	>256	8	256	0.03	64	1	128	>256	1	FOS CTX TET CIP AMP S/T FFC CS
X4-3	cecum contents		<i>P. mirabilis</i>												
X4-4	cecum contents		<i>P. mirabilis</i>												
X5-2	cecum contents		<i>E. coli</i>												
E7-1	Pigeon feces	fosA3	<i>E. coli</i>	1	160	>256	16	256	0.03	128	1	128	>256	2	FOS CTX TET CIP AMP S/T FFC CS

E7-2	Pigeon feces	fosA3	<i>E. coli</i>	1	160	>256	16	128	0.03	64	2	128	>256	2	FOS CTX TET CIP AMP S/T FFC CS
E7-3	Pigeon feces	fosA3	<i>E. coli</i>	1	160	>256	16	128	0.03	64	2	64	>256	2	FOS CTX TET CIP AMP S/T FFC CS
E6-1	Pigeon feces	fosA3	<i>E. coli</i>	1	160	>256	4	256	0.03	128	1	128	>256	1	FOS CTX TET CIP AMP S/T FFC CS
E6-2	Pigeon feces		<i>P. mirabilis</i>												
E3	Pigeon feces	fosA3	<i>E. coli</i>	1	160	>256	8	256	0.03	64	1	128	>256	4	FOS CTX TET CIP AMP S/T FFC CS
E4-1	Pigeon feces	fosA3	<i>E. coli</i>	1	2.5	>256	8	64	0.03	64	2	4	>256	2	FOS CTX TET CIP AMP CS
E5	Pigeon feces	fosA3	<i>E. coli</i>	1	2.5	>256	8	64	0.03	64	2	2	>256	2	FOS CTX TET CIP AMP CS
E9-2	Pigeon feces	fosA3	<i>E. coli</i>	1	2.5	>256	8	64	0.03	2	2	2	>256	2	FOS CTX TET CIP AMP CS
E11-2	Pigeon feces	fosA3	<i>E. coli</i>	1	2.5	>256	64	32	0.03	128	2	4	>256	1	FOS CTX TET CIP AMP CS
E13-2	Pigeon feces	fosA3	<i>E. coli</i>	1	160	>256	4	64	0.015	128	1	4	>256	2	FOS CTX TET CIP AMP S/T GEN CS
W5-3-1	sewage	fosA3	<i>E. coli</i>	1	160	>256	8	16	0.03	64	2	4	>256	2	FOS CTX TET CIP AMP S/T FFC CS
W5-3-2	sewage	fosA3	<i>E. coli</i>	1	80	>256	8	16	0.03	64	4	8	>256	2	FOS CTX TET CIP AMP S/T CS
W6-2-1	sewage	fosA3	<i>E. coli</i>	1	2.5	>256	8	64	0.03	64	2	2	>256	2	FOS CTX TET CIP AMP S/T CS
W6-2-2	sewage	fosA3	<i>E. coli</i>	1	2.5	>256	8	64	0.03	64	2	2	>256	2	FOS CTX TET CIP AMP CS
C1-1	dust														
C1-2	dust		<i>Proteus mirabilis</i>												
C1-3	dust														
E4-2-1	Pigeon feces	fosA3	<i>E. coli</i>	8	160	>256	4	256	0.03	128	1	128	>256	1	FOS CTX TET CIP AMP S/T FFC CS
E4-2-2	Pigeon feces	fosA3	<i>E. coli</i>	16	2.5	>256	8	64	0.03	64	>256	128	>256	2	FOS CTX TET CIP AMP GEN FFC CS