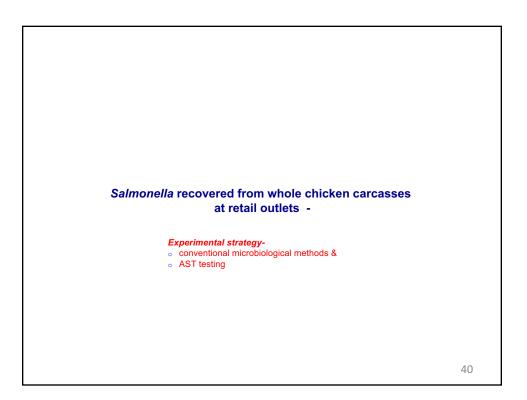
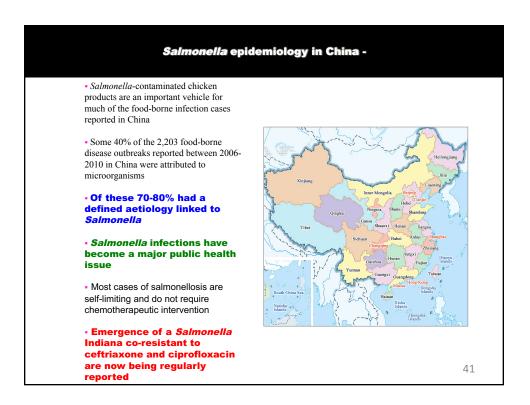
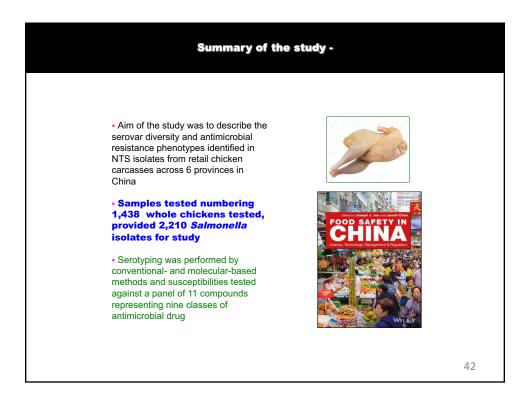


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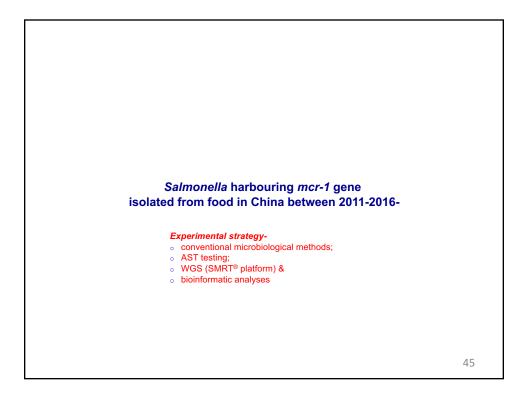


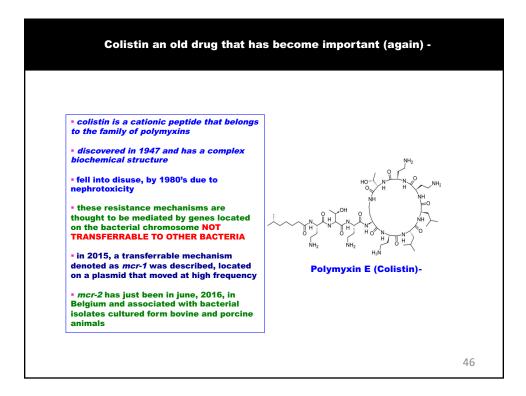


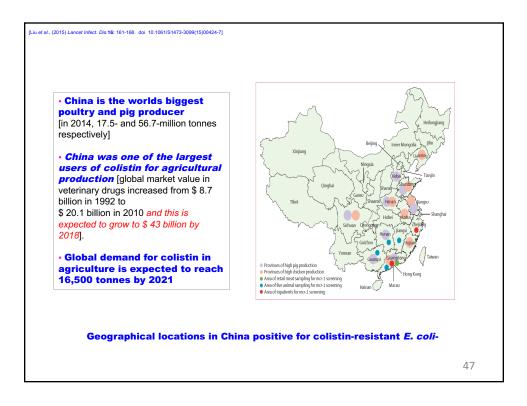


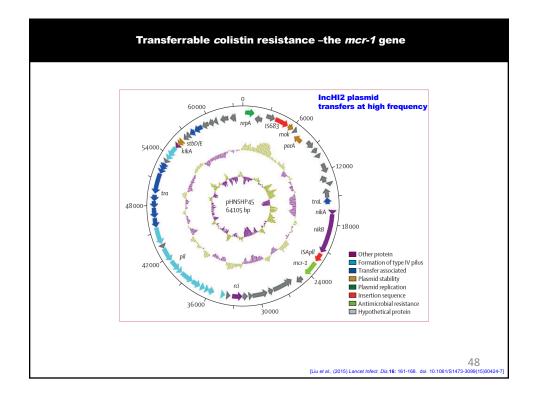
Number of Class	s No. of strair	ns of domina	it serovars (F	ercentage)								
of Antibiotic Resistance	Total (n = 2210)	Enteritidis (n = 673)	Indiana (n = 365)	Infantis (n = 211)	Typhimurium (n = 163)	Agona (n = 162)	Derby (n = 81)	Rissen (n = 68)	Dabou (n = 58)	Thompson (n = 50)	Hadar (n = 46)	Other Serovars (n = 333)
0 1 2 3 4 5 6 7 8		148 (22.0%) 14 (2.1%) 21 (3.1%) 3 (0.5%)	12 (3.3%) 19 (5.2%) 18 (4.9%)	0 (0%) 1 (0.5%) 37 (17.5%) 0 (0%)	$\begin{array}{c} 24 \left(14.7\% \right) \\ 34 \left(20.9\% \right) \\ 9 \left(5.5\% \right) \\ 10 \left(6.1\% \right) \\ 16 \left(9.8\% \right) \\ 19 \left(11.7\% \right) \\ 27 \left(16.6\% \right) \\ 24 \left(14.7\% \right) \\ 0 \left(0\% \right) \end{array}$	$\begin{array}{c} 135 \ (83.3\%) \\ 9 \ (5.6\%) \\ 0 \ (0\%) \\ 0 \ (0\%) \\ 1 \ (0.6\%) \\ 6 \ (3.7\%) \\ 11 \ (6.8\%) \\ 0 \ (0\%) \\ 0 \ (0\%) \end{array}$	15 (18.5%) 10 (12.3%) 4 (4.9%) 9 (11.1%)	2 (2.9%) 2 (2.9%) 7 (10.3%) 9 (13.2%)			0 (0.0%) 42 (91.3%) 2 (4.3%) 2 (4.3%) 0 (0.0%) 0 (0.0%)	147 (44.1%) 77 (23.1%) 31 (9.3%) 10 (3.0%) 5 (1.5%) 19 (5.7%) 33 (9.9%) 10 (3.0%) 1 (0.3%)
$\substack{\geq 3 \ (MDR) \\ \geq 5}$	967 (43.8%) 594 (26.9%)		328 (89.9%) 295 (80.8%)		96 (58.9%) 70 (42.9%)	18 (11.1%) 17 (10.5%)		21 (30.9%) 17 (25.0%)		20 (40.0%) 20 (40.0%)		78 (23.4%) 63 (18.9%)
none c	38 isola vere resi nce to n to amp of the is	stant to alidixic icillin (4 olates	at leas acid wa 3%), tei were re	found t one ar s comn tracyclir	to be sus ntimicrob non (70% ne (42%) to carba	ial com of the apenen	oound; collecti ns;	,			classo	c)

Antimicrobial resistance profile	Number of Isolates	Number of ESBLs positive isolates	<i>Salmonella</i> Indiana ESBL & FQ resistant profile
CHL-CIP-NAL-AMP-CAZ-CTX-SXT	1	1	
CHL-CIP-NAL-AMP-SAM-CAZ-CTX-SXT	1	0	Salmonella Indiana were the most
CHL-CIP-NAL-AMP-SAM-TET-CTX-SXT	13	13	resistant of the serovars detected with
CIP-NAL-AMP-SAM-CTX	1	1	98% being resistant to all compounds
CIP-NAL-AMP-TET-CTX	1	1	tested with the exception of
GEN-CHL-CIP-NAL-AMP-CTX-SXT	2	2	carbapenems
GEN-CHL-CIP-NAL-AMP-SAM-CAZ-CTX-SXT	15	14	carbapenems
GEN-CHL-CIP-NAL-AMP-SAM-CTX	4	4	
GEN-CHL-CIP-NAL-AMP-SAM-CTX-SXT	19	18	• Salmonella Indiana was also
GEN-CHL-CIP-NAL-AMP-SAM-TET-CAZ-CTX	11	11	found to be resistant to
GEN-CHL-CIP-NAL-AMP-SAM-TET-CAZ-CTX-SXT	32	32	(fluoro)quinolones
GEN-CHL-CIP-NAL-AMP-SAM-TET-CTX	9	9	
GEN-CHL-CIP-NAL-AMP-SAM-TET-CTX-SXT	66	65	 183 S. Indiana isolates were co-
GEN-CHL-CIP-NAL-AMP-TET-CTX	1	1	resistant to ciprofloxacin and cefotaxime
GEN-CHL-CIP-NAL-AMP-TET-CTX-SXT	1	1	of which 179 were ESBL-positive
GEN-CIP-NAL-AMP-CTX-SXT	1	1	
GEN-CIP-NAL-AMP-SAM-CTX-SXT	1	1	 more than half of the isolates
GEN-CIP-NAL-AMP-SAM-TET-CTX	1	1	represented by this serovar were
GEN-CIP-NAL-AMP-SAM-TET-CTX-SXT	3	3	found to be resistant to nine or
			more antimicrobial compounds
Total	183	179	

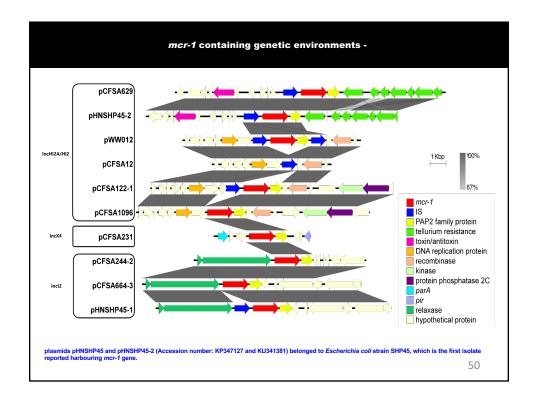




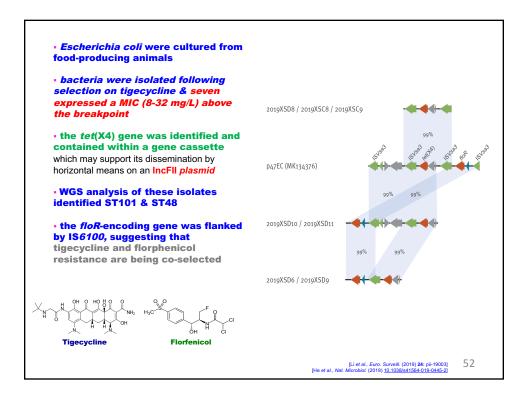


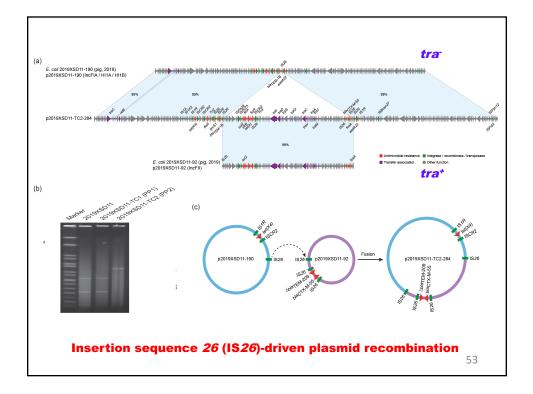


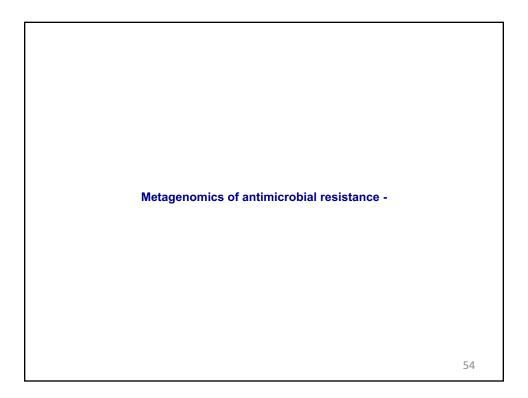
Bacterial isolate	CFSA664	CFSA122	CFSA12	CFSA244	CFSA1096	CFSA231	CFSA629
Serotype	Indiana	Typhimurium	Typhimurium	Typhimurium	London	Derby	Typhimurium
MLST type	17	34	34	34	155	40	34
Year.month	2011.6	2013.5	2014.5	2014.4	2015.10	2016.10	2016.7
Region	Jiangsu	Guangxi	Guangxi	Jiangxi	Hubei	Hubei	Guangdong
Food origin	Retail chicken	Dumpling (Retail)	Retail Pork	Retail Pork	Retail Pork	Dumpling (Restaurant)	Egg
Resistant antimicrobial classes	8	7	4	4	10	7	6
ESBLs	+	-	-		+	-	+
Number of plasmid	3	2	1	2	1	1	1
Replicon type and size of plasmids harbouring mcr-1	Incl2 (61 kbp)	IncHI2A/HI2 (182 kbp)	IncHI2A/HI2 (148 kbp)	Incl2 (60 kbp)	IncHI2A/HI2 (297 kbp)	IncX4 (33 kbp)	IncHI2A/HI2 (211 kbp)
Antimicrobial resistance genes on plasmids harbouring <i>mcr-</i> 1	mcr-1	mcr-1, aph(4)-la, aac(3)-lVa, aph(3)-la, aadA1, aadA2, bloox,n,, aac(6)-lbox,n,, catB4, cmlA1, arr-3, sul2, sul1, sul3	aadA2, aadA1, cniA1, sul3, dfrA12, <u>Amcr-1</u>	mer-1	mcr-1, aph(3')-la, aa(3)-ld, bla _{TEM-16} , bla _{TEM-16} , bla _{CTM-85} , qnrS1, inu(F), mph(A), floR, ar-2, su3, tet(A), dfrA14	mcr-1	mcr-1 , аас(3)-lva, арh(4)-la, bla _{стизм14} , fosA3

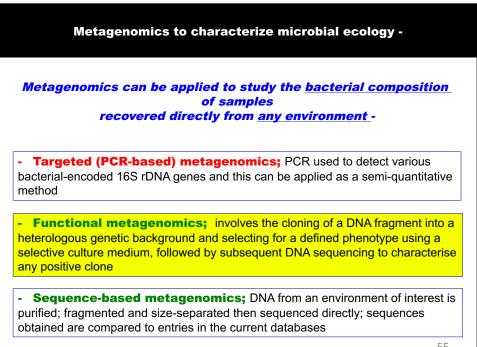




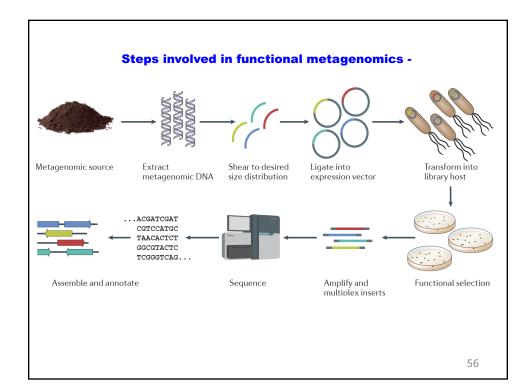


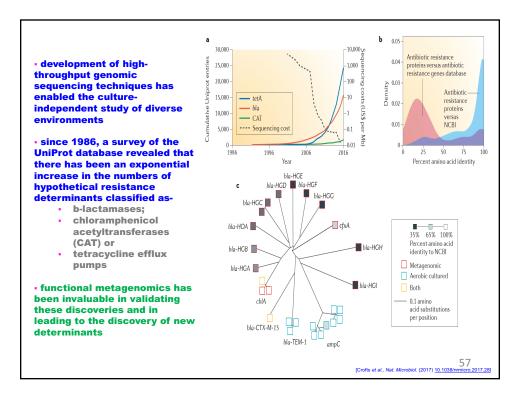


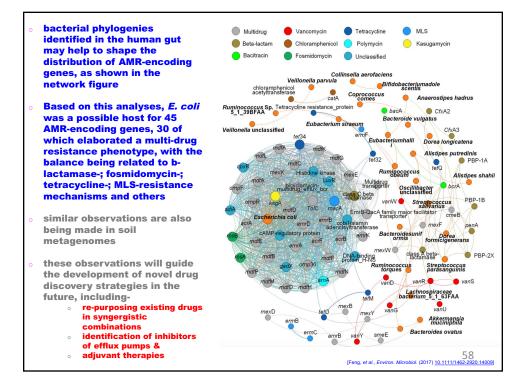


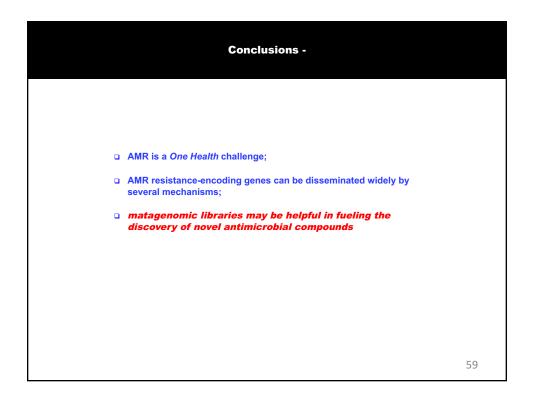


[Penders et al., (2013) Frontiers in Microbiol, doi: 10.3389/fmicb.2013.00087]











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February 19, 2020	(South Pacific Teleciass) DEVELOPING AND IMPLEMENTING A PERSONAL PROTECTIVE EQUIPMENT TRAINING PROGRAMME FOR HIGH-CONSEQUENCE INFECTIOUS DISEASE PREPAREDNESS Speaker: Ruth Barratt, University of Sydney, Faculty of Medicine				
February 27, 2020	ANTIBIOTIC STEWARDSHIP IN NURSING HOMES Speaker: Prof. Patricia Stone, Columbia University, School of Nursing				
March 3, 2020	(<u>European Teleclass)</u> <u>THE EFFICACY OF INFECTION PREVENTION AND CONTROL COMMITTEES IN</u> <u>AFRICAN SETTINGS</u> Speaker: Eltony Mugomeri , Africa University, Zimbabwe				
March 12, 2020	(FREE Teleclass) THE BUZZ AROUND MOSQUITOES AND MOSQUITO-BORNE DISEASES Speaker: Dr. Marcia Anderson, Environmental Protection Agency				
March 19, 2020	INFECTION PREVENTION AND CONTROL IN HOME CARE AND HOSPICE: COMMON COMPLIANCE ISSUES Speaker: Mary McGoldrick, Home Health Systems, Inc.				
April 16, 2020	WATERBORNE PATHOGENS: WHY IS THEIR PROFILE CHANGING? Speaker: Prof. Syed A Sattar, Centre for Research on Environmental Microbiology, Canada				

