

**Supplementary Table S5.** An overview of values for annotation of genomic features of different assemblies from monocultures and mixed culture of *E. coli* and *K. pneumoniae* isolates. Average (SD)\* were calculated after regarding the *E. coli* 3 and *K. pneumoniae* 1 isolate statistics as an outlier and discarding the corresponding data.

	Isolates ID	CDS	rRNA	tRNA	tmRNA	Putative proteins	Hypothetical proteins	Repeat regions
<i>Illumina</i> (Unicycler)	<i>E. coli</i> 1	4739	4	83	1	13	1149	0
	<i>E. coli</i> 2	4751	6	79	1	12	1149	2
	<i>E. coli</i> 3	4778	4	78	1	11	1191	0
	<i>E. coli</i> 4	5538	5	89	1	10	1789	2
	<b>Average (SD)</b>	<b>4952 (392)</b>	<b>5 (1)</b>	<b>83 (5)</b>	<b>1 (0)</b>	<b>12 (2)</b>	<b>1320 (314)</b>	<b>1 (2)</b>
<i>MinION</i> (Flye)	<i>E. coli</i> 1	8594	13	88	1	13	2814	0
	<i>E. coli</i> 2	7551	11	67	1	8	2701	2
	<i>E. coli</i> 3	67	0	0	0	0	47	0
	<i>E. coli</i> 4	10648	22	95	1	15	4451	2
	<b>Average (SD)</b> <b>Average * (SD) *</b>	<b>6715 (4615)</b> <b>8931 (1576)</b>	<b>12 (10)</b> <b>16 (6)</b>	<b>63 (44)</b> <b>84 (15)</b>	<b>1 (1)</b> <b>1 (0)</b>	<b>9 (7)</b> <b>12 (4)</b>	<b>2504 (1823)</b> <b>3322 (980)</b>	<b>1 (2)</b> <b>2 (2)</b>
<i>Hybrid</i> (Unicycler)	<i>E. coli</i> 1	4794	22	95	1	13	1177	0
	<i>E. coli</i> 2	4722	11	80	1	12	1155	2
	<i>E. coli</i> 3	4813	4	78	1	11	1202	0
	<i>E. coli</i> 4	5837	22	98	1	11	1948	2
	<b>Average (SD)</b>	<b>5042 (532)</b>	<b>15 (9)</b>	<b>88 (11)</b>	<b>1 (0)</b>	<b>12 (1)</b>	<b>1371 (386)</b>	<b>1 (2)</b>
<i>Illumina</i> (Unicycler)	<i>K. pneumoniae</i> 1	4992	3	78	1	17	1283	2
	<i>K. pneumoniae</i> 2	5092	3	78	1	16	1250	0
	<i>K. pneumoniae</i> 3	5379	4	79	1	17	1528	2
	<i>K. pneumoniae</i> 4	5411	4	78	1	17	1608	0
	<i>K. pneumoniae</i> 5	5130	5	79	1	15	1275	0
	<b>Average (SD)</b>	<b>5201 (185)</b>	<b>4 (1)</b>	<b>79 (1)</b>	<b>1 (0)</b>	<b>17 (1)</b>	<b>1389 (167)</b>	<b>1 (2)</b>
<i>MinION</i> (Flye)	<i>K. pneumoniae</i> 1	1466	4	3	0	0	928	0
	<i>K. pneumoniae</i> 2	7082	25	86	1	17	2227	0
	<i>K. pneumoniae</i> 3	8576	25	88	1	17	3230	2
	<i>K. pneumoniae</i> 4	11847	25	82	1	17	5696	1
	<i>K. pneumoniae</i> 5	11625	19	73	1	7	6107	0
	<b>Average (SD)</b> <b>Average * (SD) *</b>	<b>8120 (3933)</b> <b>7826 (2339)</b>	<b>20 (10)</b> <b>19 (3)</b>	<b>67 (36)</b> <b>66 (7)</b>	<b>1 (1)</b> <b>1 (0)</b>	<b>12 (8)</b> <b>12 (5)</b>	<b>3638 (2227)</b> <b>3452 (1885)</b>	<b>1 (1)</b> <b>1 (1)</b>
<i>Hybrid</i> (Unicycler)	<i>K. pneumoniae</i> 1	5026	9	79	1	17	1293	2
	<i>K. pneumoniae</i> 2	5130	25	86	1	16	1258	0
	<i>K. pneumoniae</i> 3	5487	25	87	1	17	1553	2
	<i>K. pneumoniae</i> 4	5494	25	85	1	17	1625	0
	<i>K. pneumoniae</i> 5	5166	17	84	1	15	1285	0
	<b>Average (SD)</b>	<b>5261 (217)</b>	<b>21 (8)</b>	<b>85 (4)</b>	<b>1 (0)</b>	<b>17 (1)</b>	<b>1403 (173)</b>	<b>1 (2)</b>
<i>Illumina</i> (Unicycler)	Mixed culture	10660	8	164	2	26	3114	2
<i>MinION</i> (Flye)	Mixed culture	20158	47	181	2	30	8174	1
<i>Hybrid</i> (Unicycler)	Mixed culture	10995	44	184	2	27	3261	2