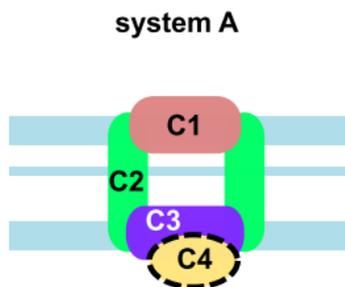
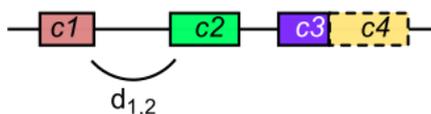


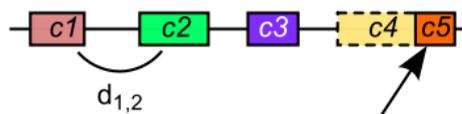
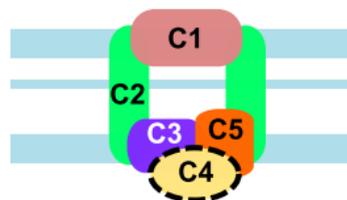
Macromolecular system



Genomic context



system B



system B-specific

System description

quorum rules

co-localization rules

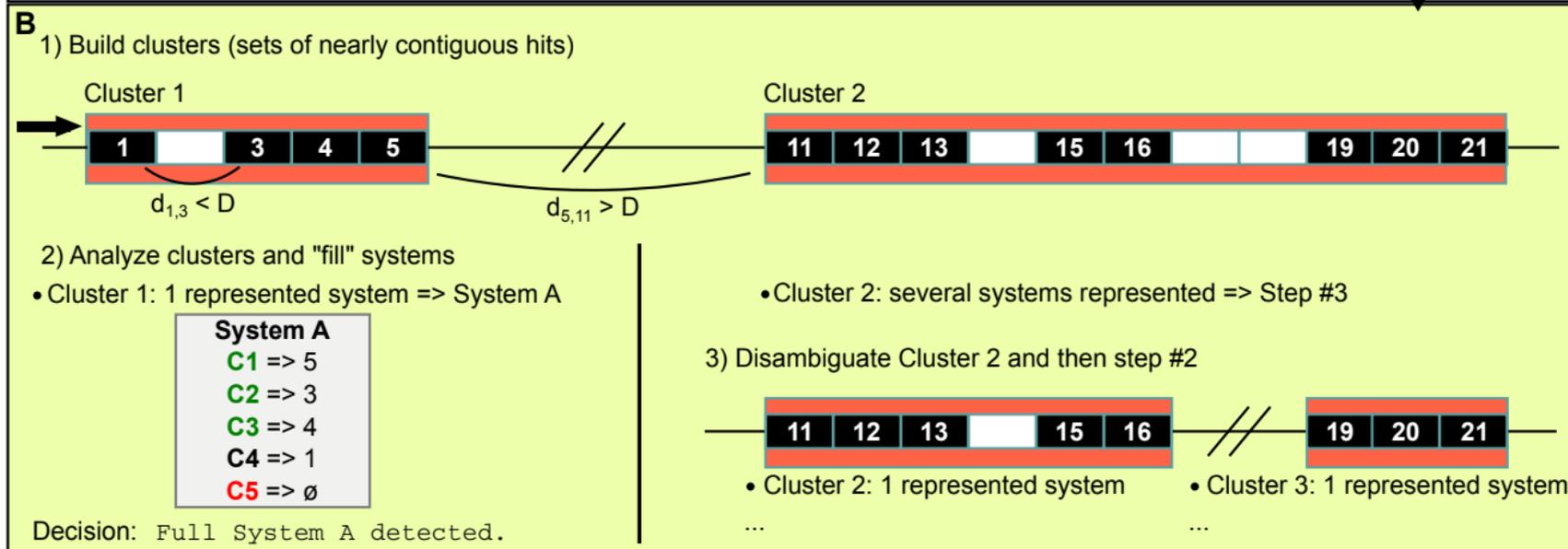
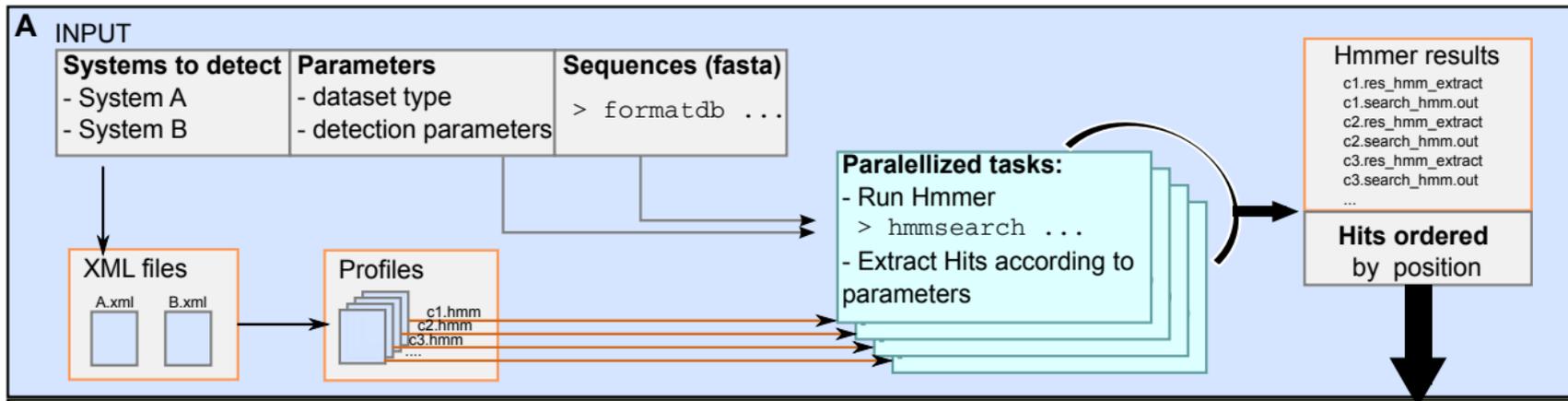
	system A	system B
	C1	C1
	C2	C2
	C3	C3
	(C4)	(C4)
	C5	C5
	$d_{i,j} < D_A$	$d_{i,j} < D_B$

A.xml

```
<system inter_gene_max_space="DA" min_genes_required="n">
  <gene name="c1" presence="mandatory"/>
  <gene name="c2" presence="mandatory"/>
  <gene name="c3" presence="mandatory"/>
  <gene name="c4" presence="allowed"/>
  <gene name="c5" presence="forbidden" system_ref="B"/>
</system>
```

B.xml

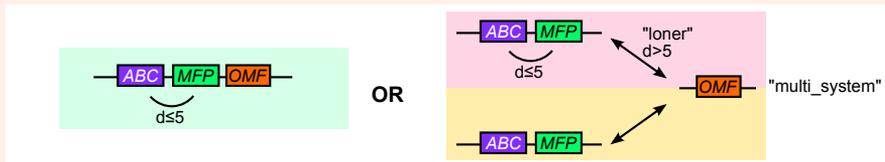
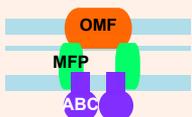
```
<system inter_gene_max_space="DB">
  <gene name="c1" presence="mandatory"/>
  <gene name="c2" presence="mandatory"/>
  <gene name="c3" presence="mandatory"/>
  <gene name="c4" presence="allowed"/>
  <gene name="c5" presence="mandatory"/>
</system>
```



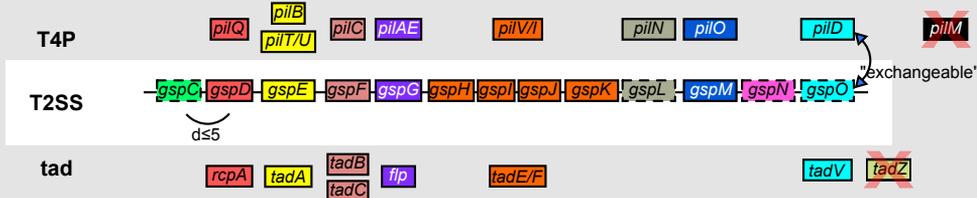
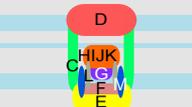
Secretion system

System definition

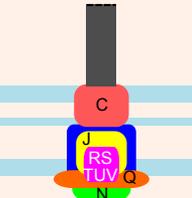
T1SS



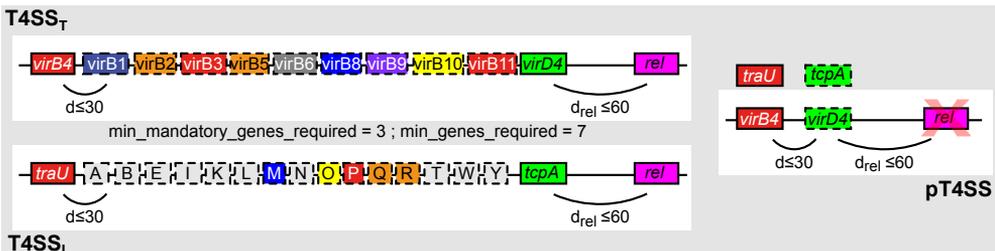
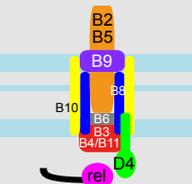
T2SS



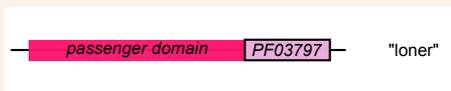
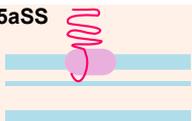
T3SS



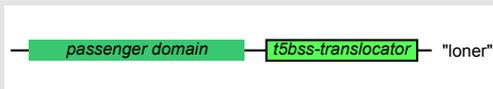
T4SS



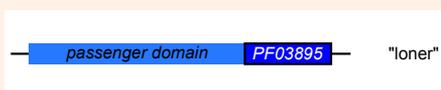
T5aSS



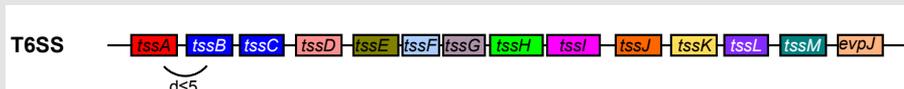
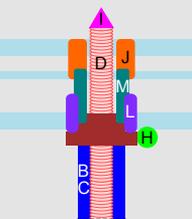
T5bSS



T5cSS

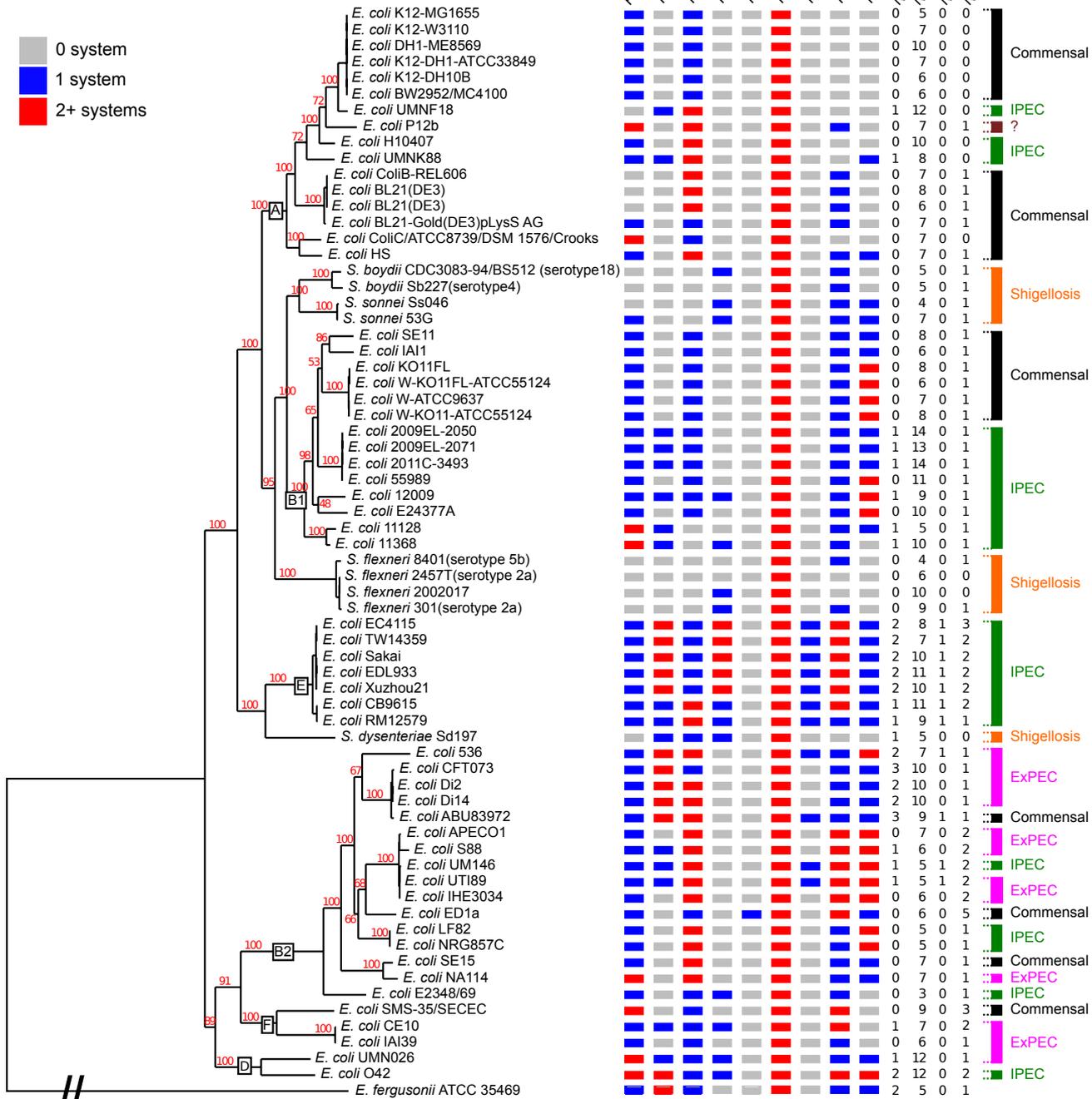


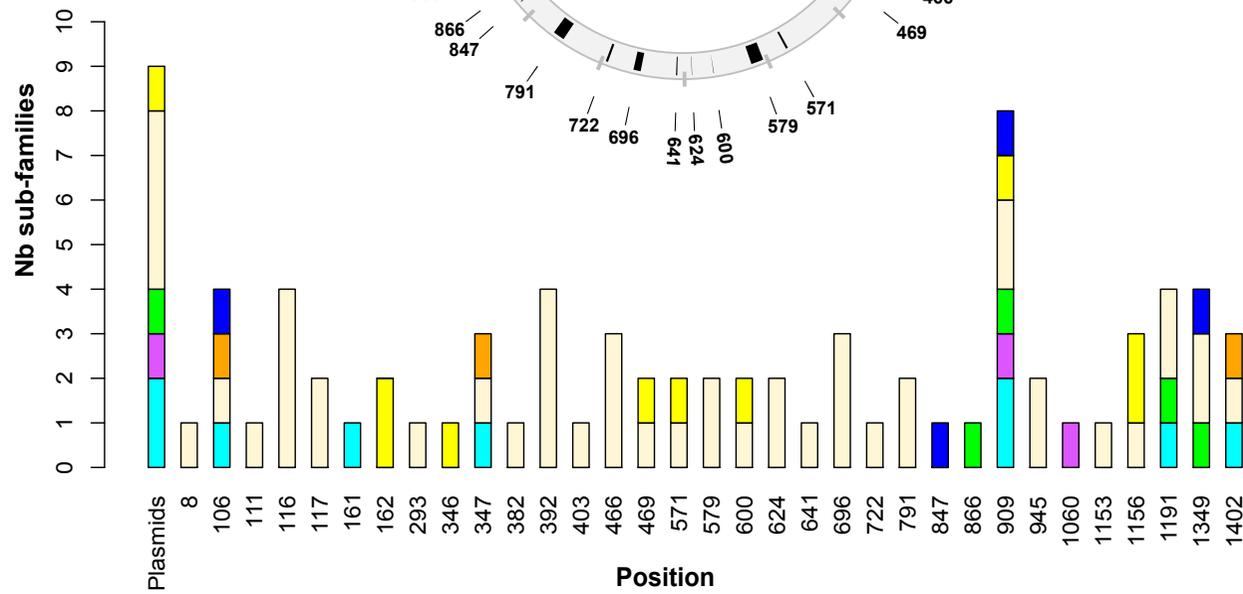
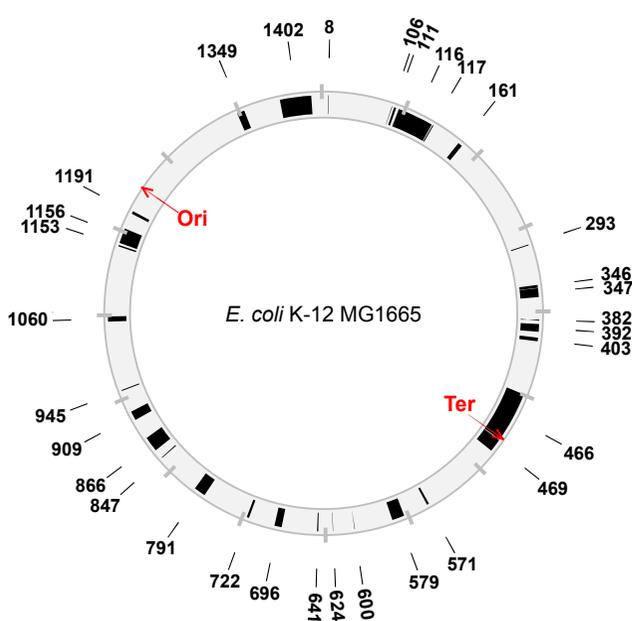
T6SS



0.05 substitutions/site

0 system
 1 system
 2+ systems



A**B**