

Table 1: Cell Wall Degrading Enzymes: Orfs (Open Reading Frame) Present in *Xcc* and *Xac* Genomes

	Orf Number	
	<i>Xcc</i>	<i>Xac</i>
Pectnolytic Enzymes		
Polygalacturonases	XCC2266 XCC3459	XAC0661 XAC2374
Pectate lyases	XCC0122* XCC0644 XCC0645* XCC2815 -	- XAC2986 - XAC3562 XAC2373*(d)
Pectin methylesterases	XCC0121* XCC2265*	- -
Rhamnogalacturonan acetylerase	XCC0154	XAC0171
Rhamnogalacturonases	XCC3377*(t) XCC3378*(t) XCC3379*(t)	XAC3505* - -
Total number of integral Orfs	09	06

(d) degenerated orfs

(t) truncated orfs

* : Orf exclusive to each genome

Cellulolytic Enzymes	<i>Xcc</i>	<i>Xac</i>
Cellulases	XCC0026 XCC0027 XCC0028 XCC1752 XCC2387 XCC3380* - XCC3381 XCC3521 XCC3535* - -	XAC0028 XAC0029 XAC0030 XAC0612 XAC1770 - XAC2522 XAC3506*(t) XAC3507 (t) - XAC3516* XAC0346*(d)
Cellobiosidases	XCC3160* XCC3534*	- -
Beta-glucosidases	XCC1090* XCC1250* XCC1775 XCC2892 XCC4106 XCC1404 XCC3814	- - XAC1793 XAC3076 XAC4231 XAC1448 XAC3869

Total number of integral Orfs	18	12
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(d) degenerated orfs

(t) truncated orfs

*: Orf exclusive to each genome

Hemicellulolytic Enzymes	<i>Xcc</i>	<i>Xac</i>
Xylanases	XCC0144	XAC0160
	-	XAC0933*(t)
	-	XAC0934*(t)
	-	XAC4252*
	XCC0857	XAC4254
	XCC3038	XAC4249
	XCC4115*	-
XCC4118*	-	
Xylosidases/arabinosidases	XCC0149	XAC0165
	XCC1178	XAC1275
	XCC1755	XAC1773
	XCC2398	XAC2533
	XCC3975	XAC4058
	XCC4064	XAC4183
	XCC4105	XAC4230
XCC4122	XAC4258	
Total number of integral Orfs	13	12

(d) degenerated orfs

(t) truncated orfs

*: Orf exclusive to each genome

Cell Wall Degrading Enzymes: Summary

Enzyme Activity	<i>Xcc</i>	<i>Xac</i>	<i>Xcc/Xac</i>
Pectinolytic	9	6	1.50
Cellulolytic	18	12	1.50
Hemicellulolytic	13	12	1.08
Total	40	30	1.33

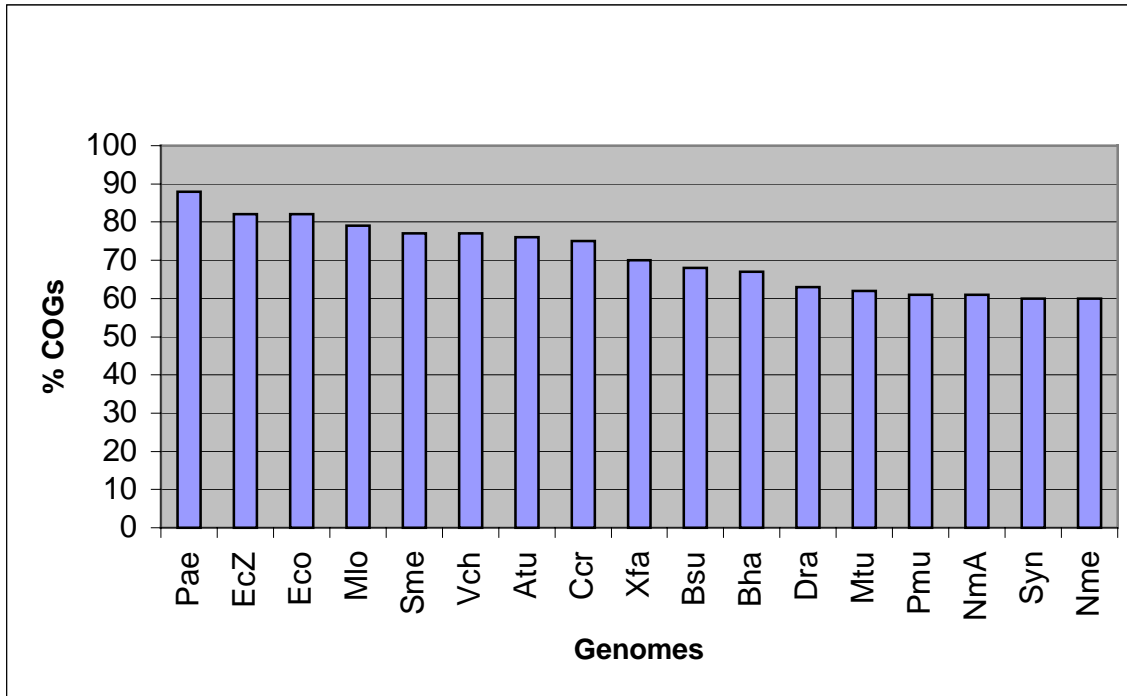


Figure 2: Histogram of COG co-occurrences. Each bar corresponds to an organism (identified by a 3-letter acronym). For each such organism the height of the bar corresponds to the percentage of all *Xanthomonas axonopodis* pv *citri* COGs which are shared with that organism. Pae, *Pseudomonas aeruginosa*; EcZ, *Escherichia coli*O157; Eco, *Escherichia coli* K12; Mlo, *Mesorhizobium loti*; Sme, *Sinorhizobium meliloti*; Vch, *Vibrio cholerae*; Atu, *Agrobacterium tumefaciens* C58; Ccr, *Caulobacter crescentus*; Xfa, *Xylella fastidiosa*; Bsu, *Bacillus subtilis*; Bha, *Bacillus halodurans*; Dra, *Deinococcus radiodurans*; Mtu, *Mycobacterium tuberculosis*; Pmu, *Pasteurella multocida*; NmA, *Neisseria meningitidis* Z2491; Syn, *Synechocystis*; Nme, *Neisseria meningitidis* MC58.