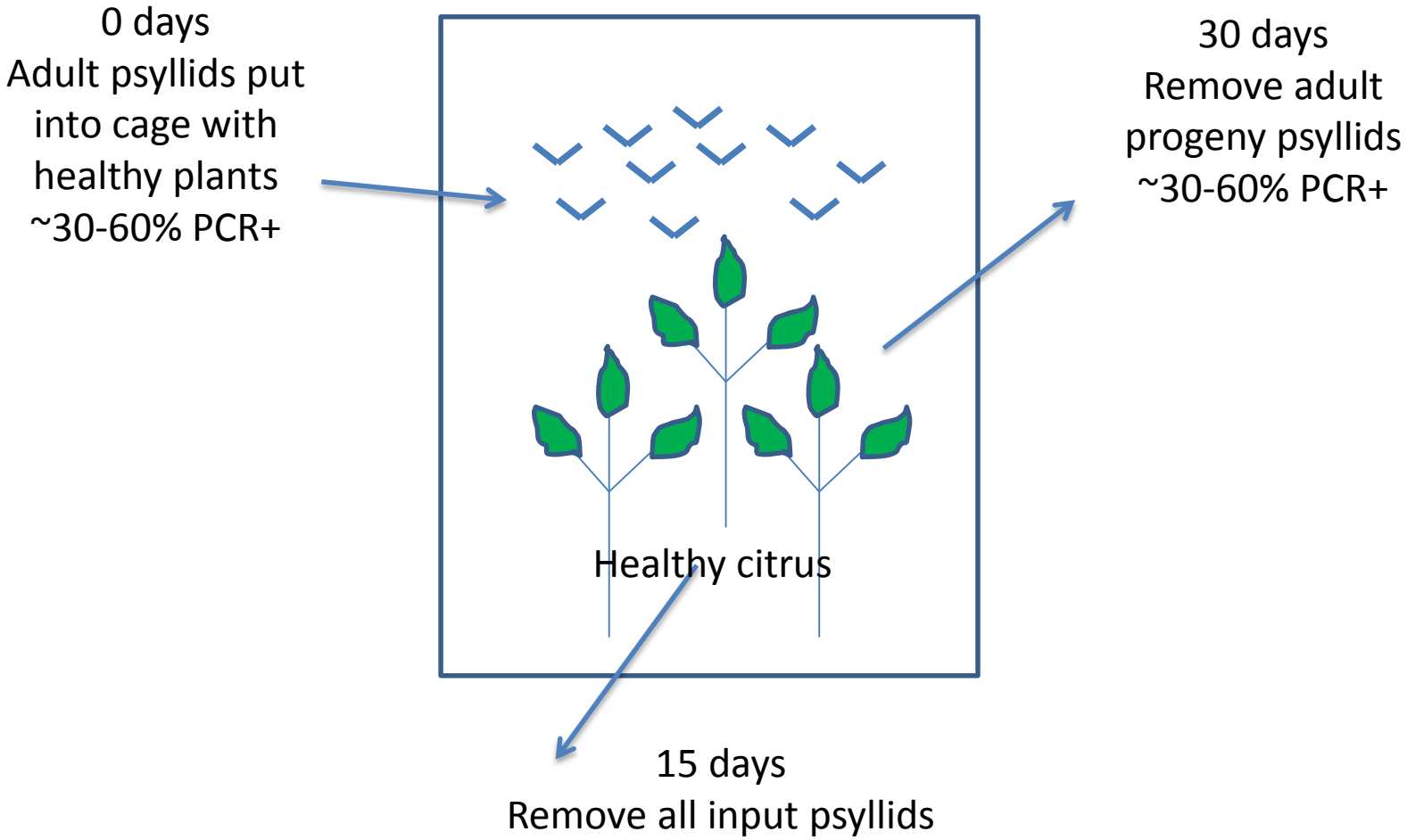
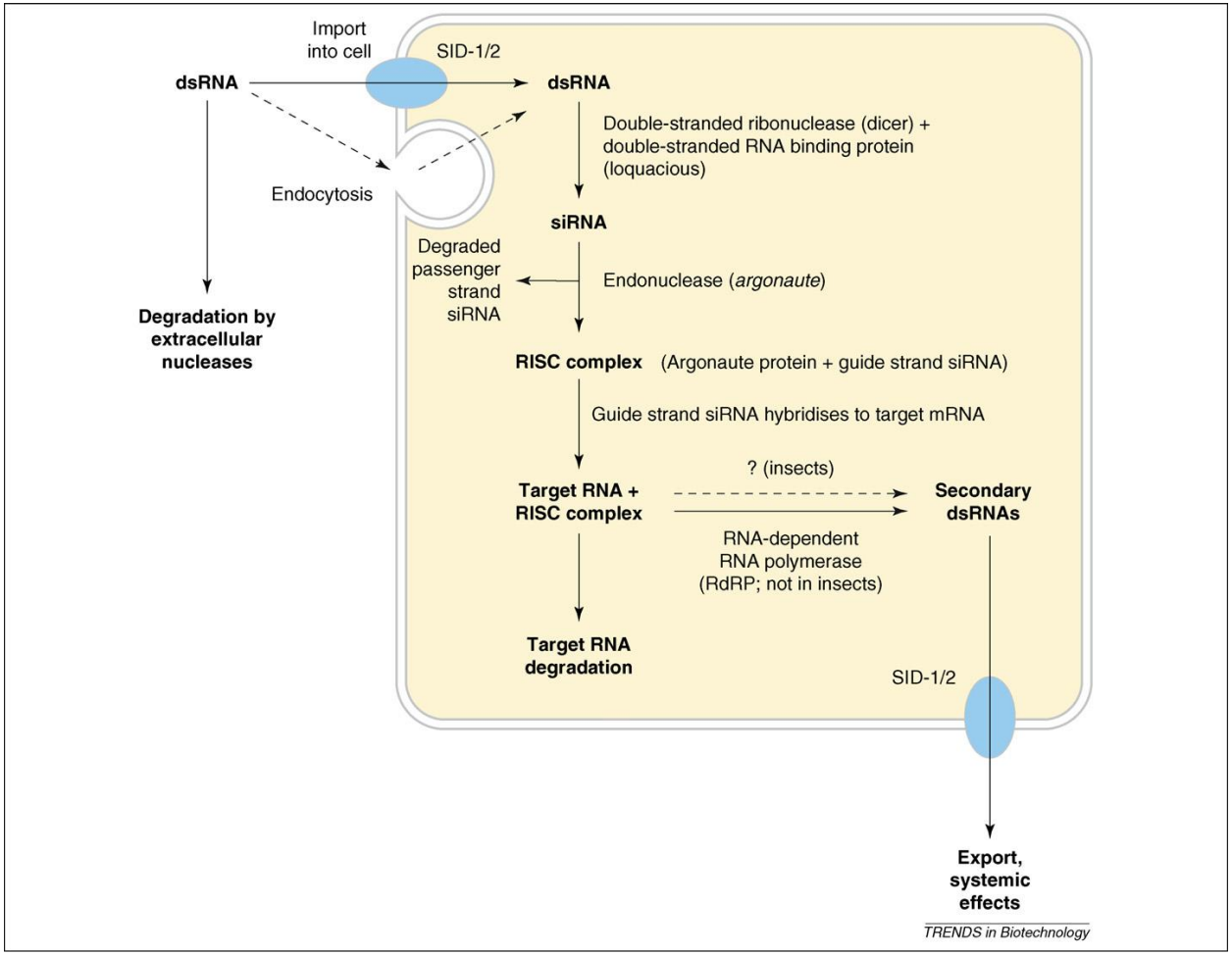
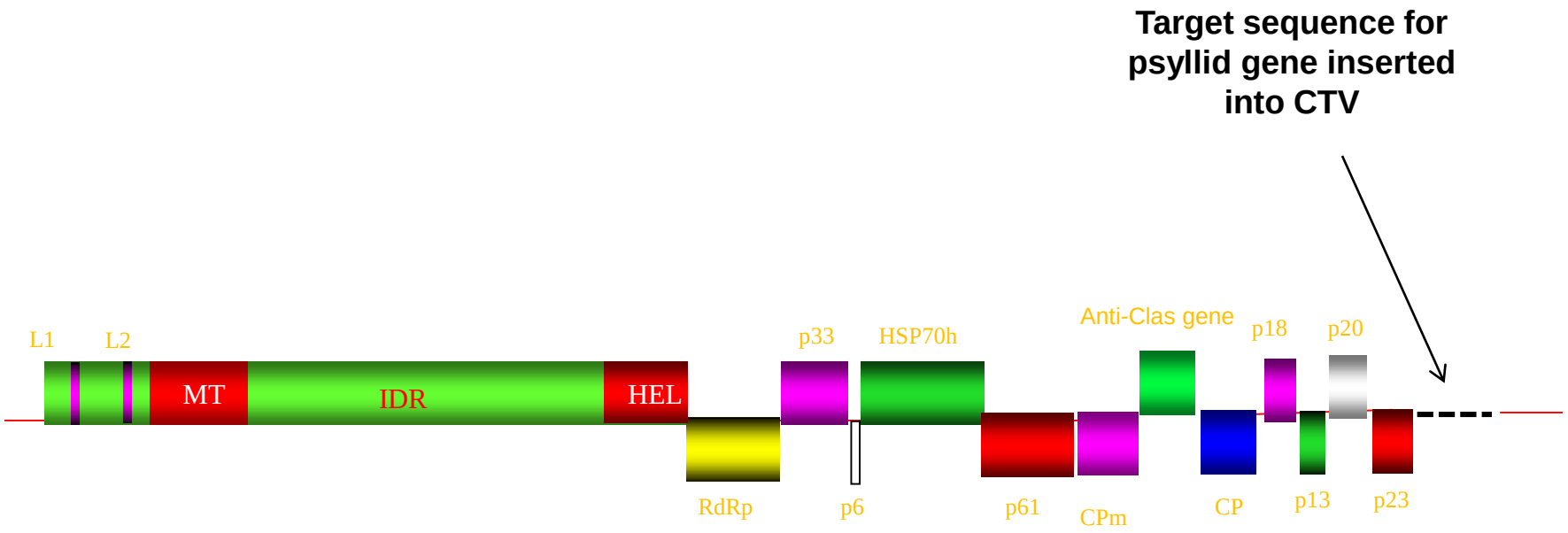
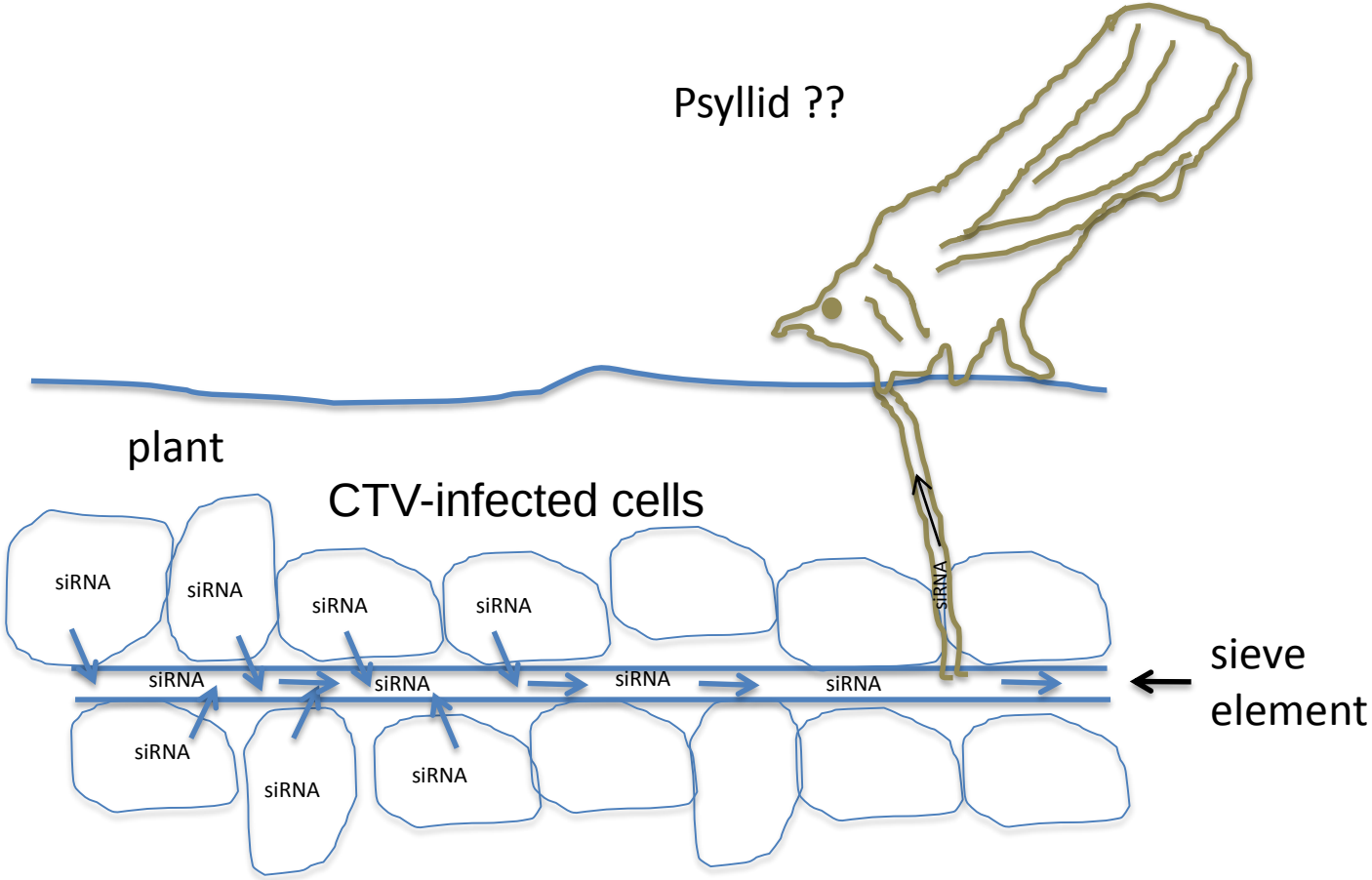
11


0 days
Adult psyllids put into cage with healthy plants
~30-60% PCR+
30 days
Remove adult progeny psyllids
~30-60% PCR+
Healthy citrus
15 days
Remove all input psyllids

Bob Shatters and Chuck Powell (Fort Pierce), Nabil Killiny (Lake Alfred, and Bryce Falk (UC Davis)

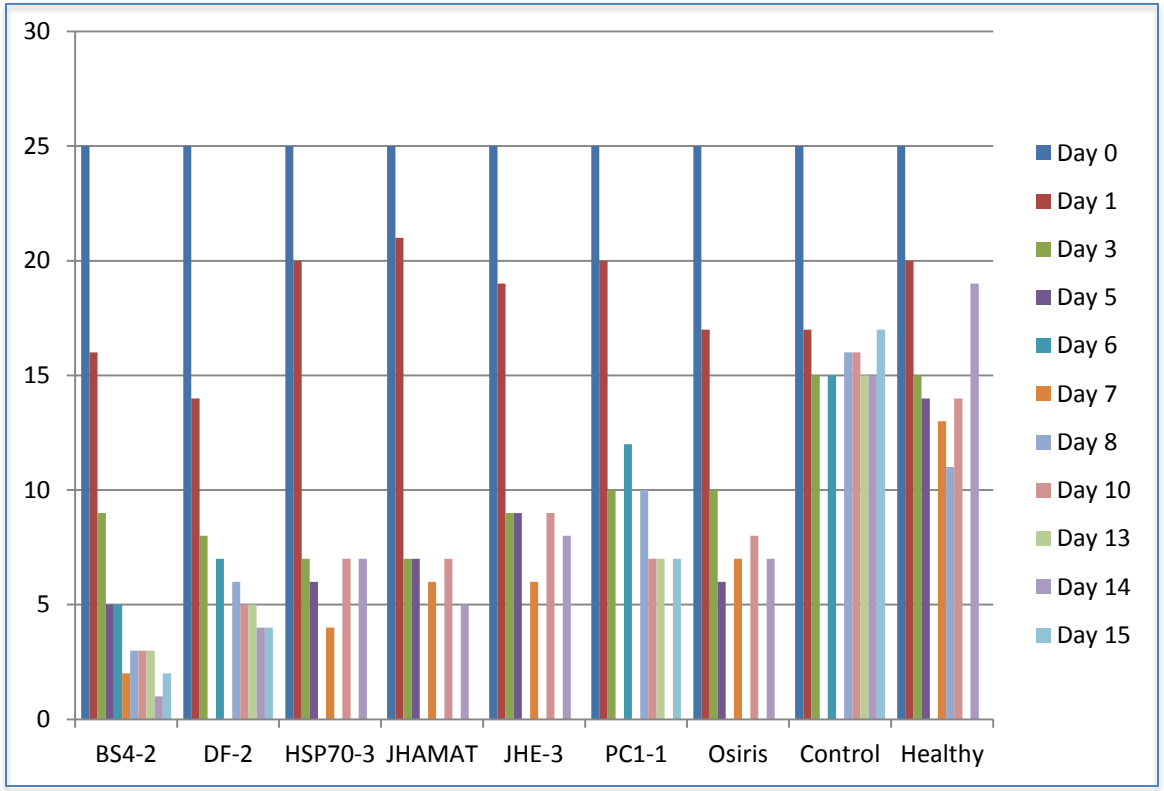



Target sequence for psyllid gene inserted into CTV
L1
L2
MT
IDR
HEL
RdRp
p33
p6
HSP70h
p61
CPm
Anti-Clas gene
CP
p18
p13
p20
p23



Peptides would be taken up the same as siRNAs

SUMMARY OF SURVIVAL OF ADULT PSYLLIDS ON RNAi PLANTS



SUMMARY OF RNAi CAGE EXPERIMENTS – PSYLLID PROGENY

Construct	# of reps	Input % PCR+	Output % PCR+	Output number
control	19	24	68	300-400
ATPase	5	45	0	15
DF	9	43	2	66
HSP70	3	27	0	17
Rieske	5	44	22	32
JHE	5	33	7	6
BS-4	2	33	0	0
Osiris	5	52	0	24
JAMAT	2	---	0	6
PC	2	50	0	5