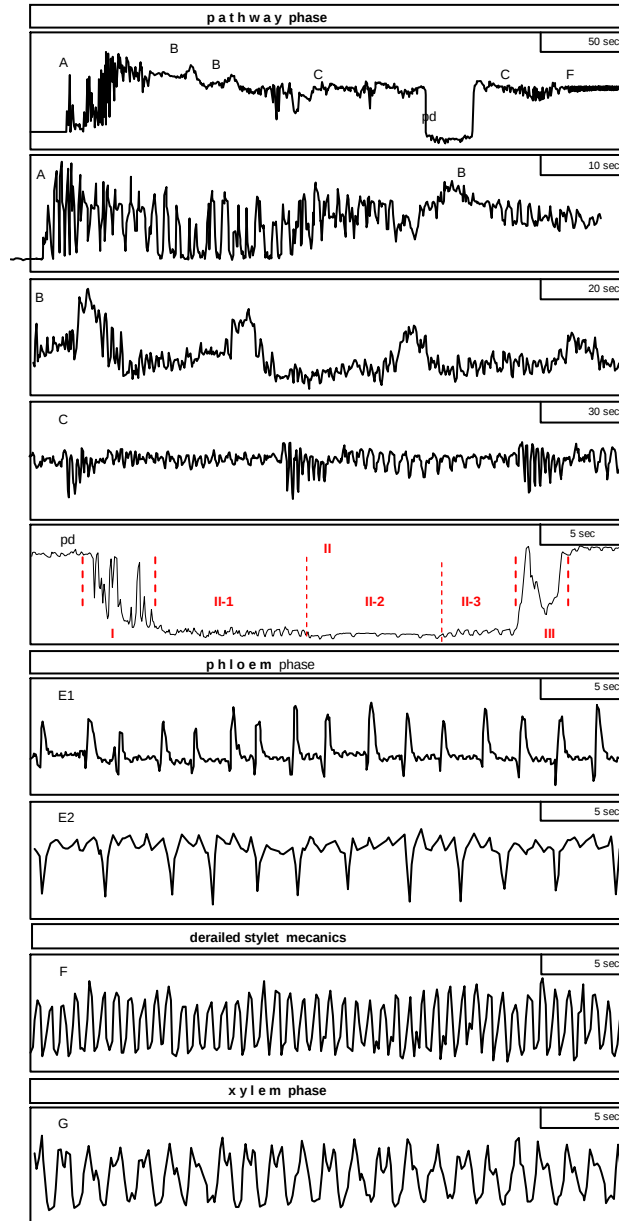


Aphid waveform characteristics



EPG ===== characteristics ===== ===== correlations =====									
wave form ¹	relative amplitude	rep rate	volt. level	el. origin	plant tissue	aphid activity	remarks		
A	100	5-10	e	R	epidermis	cuticle penetration	first wave-form, electrical stylet contacts		
B	75	0.2-0.3	e	R	epidermis / mesophyll	sheath salivation	Waveforms overlap. Therefore, ABC mostly lumped as 'stylet pathway' activity (C) in EPG analysis		
C	30	mixed	e	R	all tissues	many activities during pathway	3 phases, II with 3 sub-phases: non-pers. virus inoculation non-pers. virus inoculation non-pers. virus acquisition		
pd	.		i	emf	all living cells	stylet puncture salivation ? salivation ? ingestion			
II-1									
II-2									
II-3									
E1e	.	2-7	e	emf	mesophyll (?)	unknown	same activity as E1?		
E1	.	2-7	i	emf	sieve elements	salivation	persistent virus inoculation		
E2	.	4-9	i	emf	sieve elements	watery salivation	persistent virus acquisition		
w	.	0.5-4	i	R	sieve elements	(passive) ingestion			
p	5								
F	5	11-19	e	R/emf	all tissues		derailed stylet 'penetration difficulties' mechanics		
G	.	4-9	e	emf	xylem	active ingestion	'drinking'		
w	.	4-9	e	R	„	unknown	only occasionally shown		
p	0-60								

¹ p: peaks, w: waves. ² useless to provide for emf signals.