

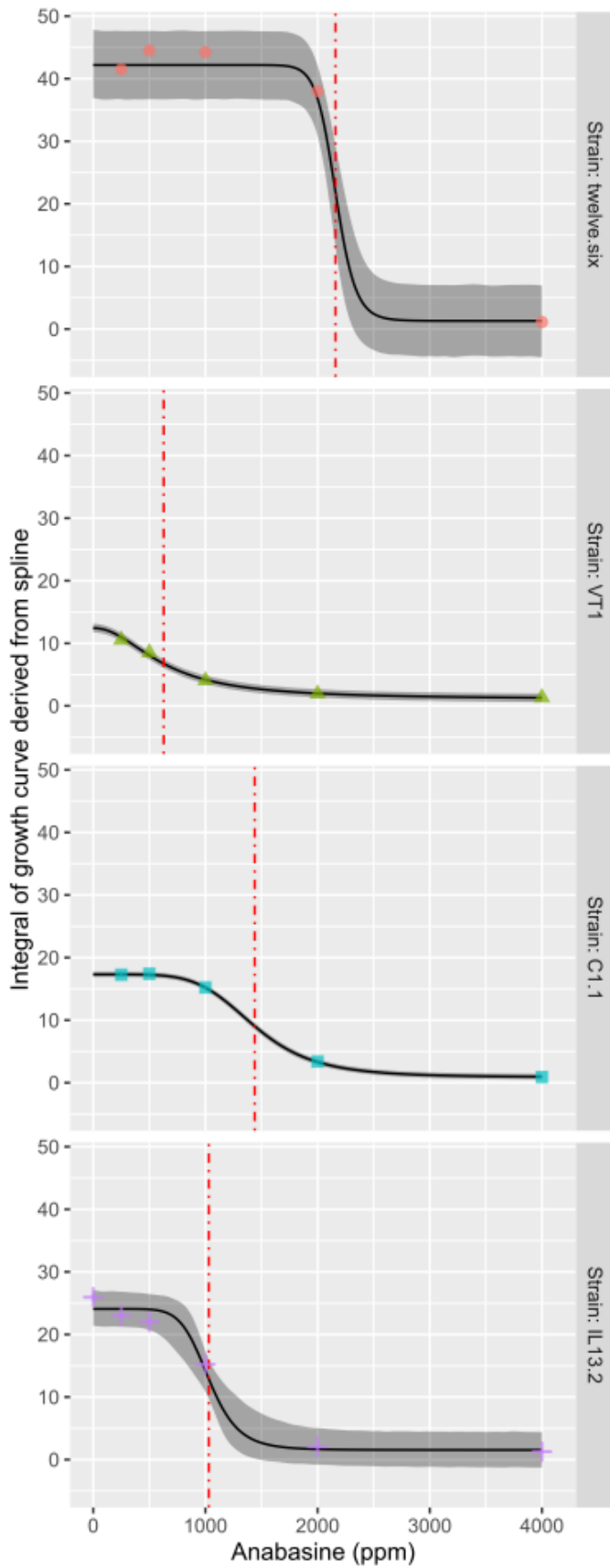
Supplementary Information

Bumble bee parasite strains vary in resistance to phytochemicals

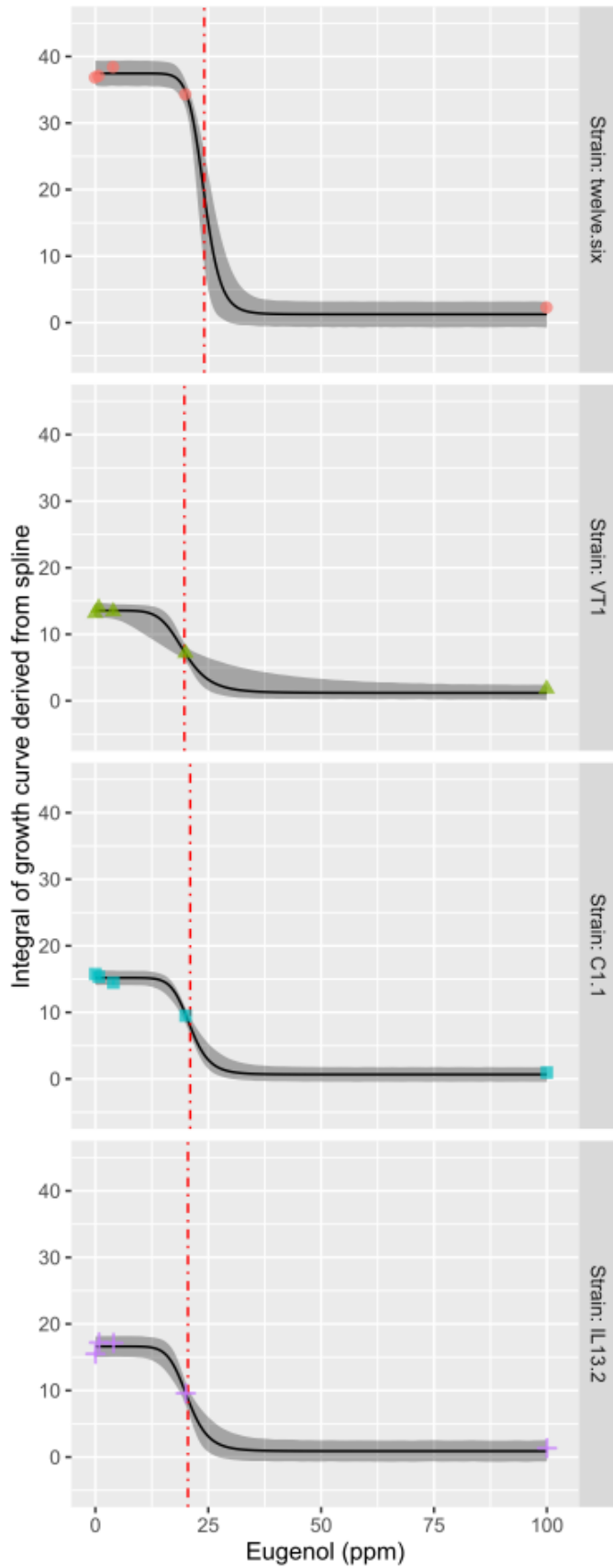
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Supplementary Table S1. Details of field sampling. Species and cultivars, locations, and dates of sampling.

Species	Site	Site GPS	Cultivars	Inclusive dates of sampling
<i>Persea americana</i>	South Coast Research and Extension Center (CA)	33°41'39.38"N 117°43'15.27"W	BL516/Marvel, Hass, and 46-4918-99	27 Feb - 4 March 2015
<i>Malus domestica</i>	Cold Spring Orchard	42°15'6.73"N 72°21'38.99"W	Macintosh, Honeycrisp, Fuji-Autumn Rose	13 - 18 May 2014
<i>Prunus dulcis</i>	Long Almond Orchard, Zamora, CA	38°49'25.88"N, 121°55'35.22"W	Nonpareil, Monterey and Winters	18 Feb 2015
<i>Vaccinium corymbosum</i> (cult.)	Cold Spring Orchard	42°15'6.73"N 72°21'38.99"W	Liberty, Patriot, Reka, Northland, Friendship, Bonus	19-27 May 2014
	Kenburn Orchard	42°36'43.44"N 72°39'18.05"W	Patriot	20-21 May 2014
	Sobieski's River Valley Farm	42°27'12.72"N 72°35'43.02"W	Spartan, Bluecrop	27 May 2014
	Nourse Farm	42°25'49.45"N 72°35'18.92"W	Spartan, Bluecrop	28 May 2014
<i>Vaccinium corymbosum</i> (wild)	Quabbin Reservoir Gate 10	42°23.537'N 72°24.181'W	NA	22 May 2014
	Harvard Pond	42°29'54.93"N, 72°12'47.83"W	NA	23-25 May 2014
	Harvard Forest	42°32'6.41"N, 72°11'19.53"W	NA	26 May 2014
<i>Thymus vulgaris</i>	S. Deerfield Farm	42°28'45.53"N 72°34'46.06"W	Silver	7 July 2015
<i>Thymus vulgaris</i>	S. Deerfield Farm	42°28'45.53"N 72°34'46.06"W	German	12 June - 7 July 2015

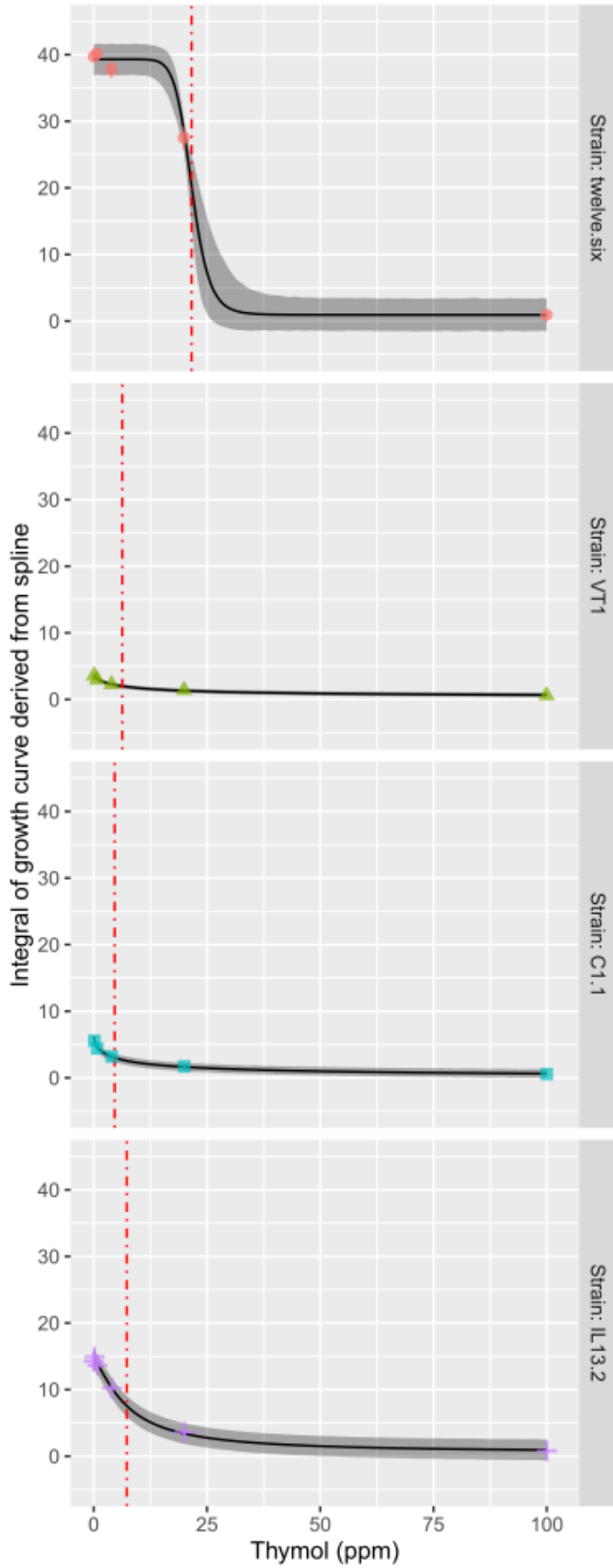


Supplementary Figure S1: 95% posterior density bands for responses of 4 parasite strains to anabasine. Points show raw data (mean +/- SD). Vertical lines indicate EC50 values.



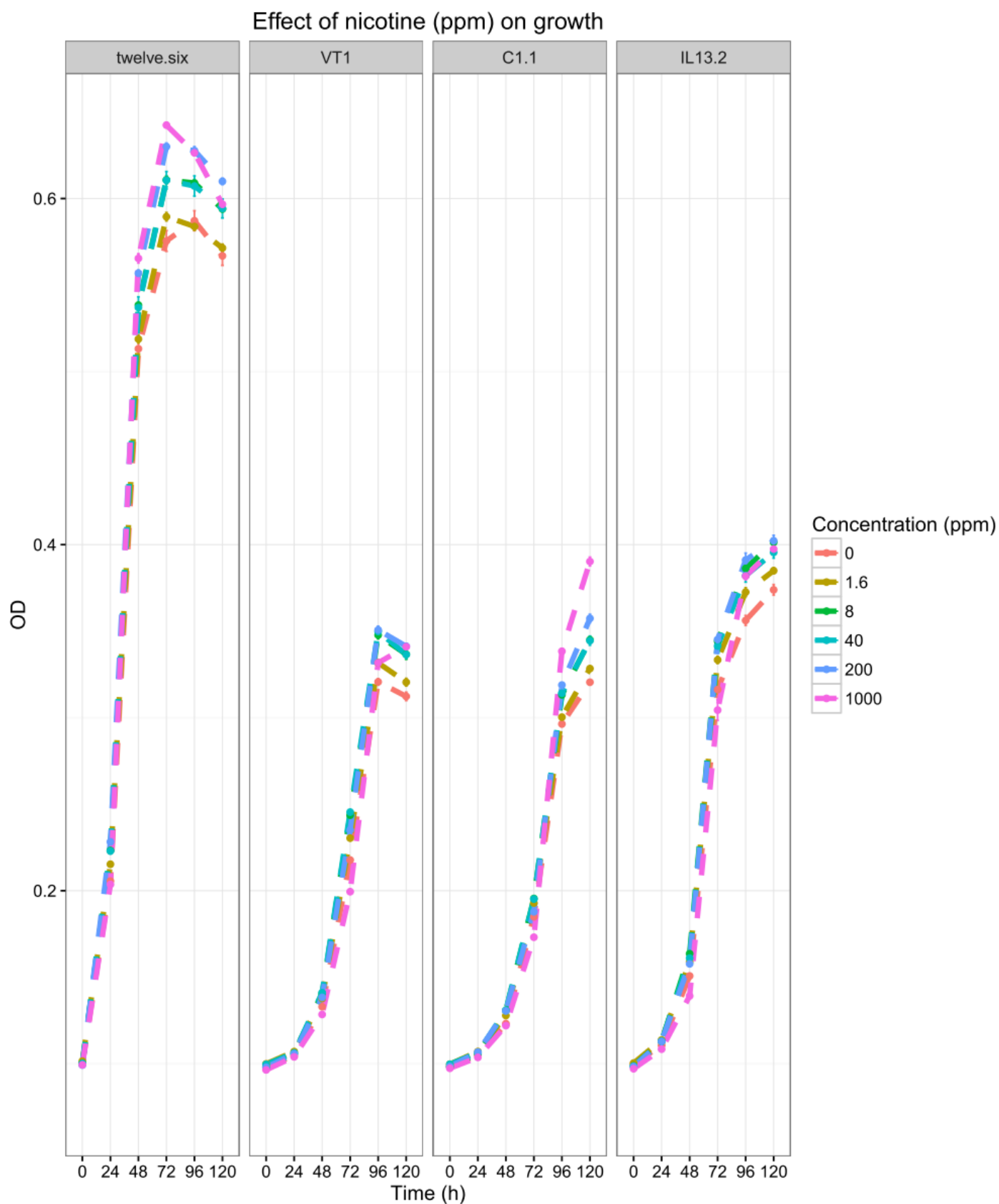
Supplementary Figure S2: 95% posterior density bands for responses of 4 parasite strains to eugenol.

Points show raw data (mean +/- SD). Vertical lines indicate EC50 values.



Supplementary Figure S3: 95% posterior density bands for responses of 4 parasite strains to thymol.

Points show raw data (mean \pm SD). Vertical lines indicate EC50 values.



Supplementary Figure S4. Representative growth curves for four *C. bombi* strains in presence of non-inhibitory chemical nicotine. X axis shows time of measurement, Y axis shows optical density (OD 630 nm), points show mean \pm SD of 8 replicate wells. Lines are colored according to nicotine concentration.