

Figure S1. The “snowball” forms of (A) *V. opulus* (*Opulus*) and (B) *V. plicatum* (*Lutescentia*). Note that the corollas of the flowers in the “snowball” form in *V. plicatum* are radially symmetrical in contrast to the asymmetrical corollas of SMFs in the wild-type form. Photographs by M.J. Donoghue.

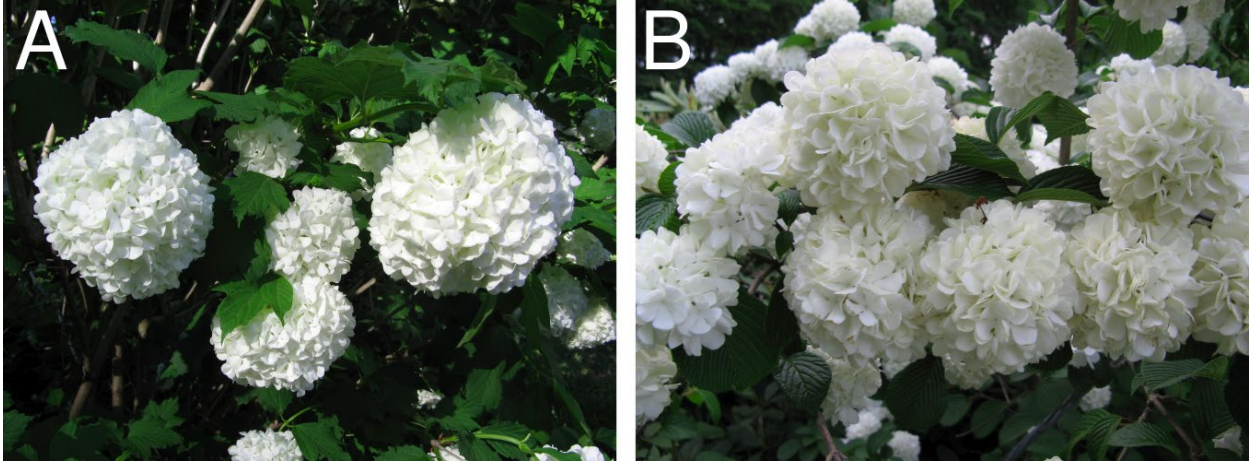


Figure S2. Maximum-likelihood reconstruction of specialized growth patterns on the 145 taxa *Viburnum* phylogeny under an “irreversible” transition model (log-likelihood = -12.1, AICc = 26.2). Analyses under “equal rates” (log-likelihood = -12.6, AICc = 26.9) and “all rates different” (log-likelihood = -12.1, AICc = 28.3) models yielded similar reconstructions (not shown). Pie-charts represent the transition probabilities, with black denoting the presence of a specialized growth pattern. The majority of nodes were resolved with > 0.99 probability so pie-charts are displayed for nodes within the clades where the specialized growth pattern is observed.

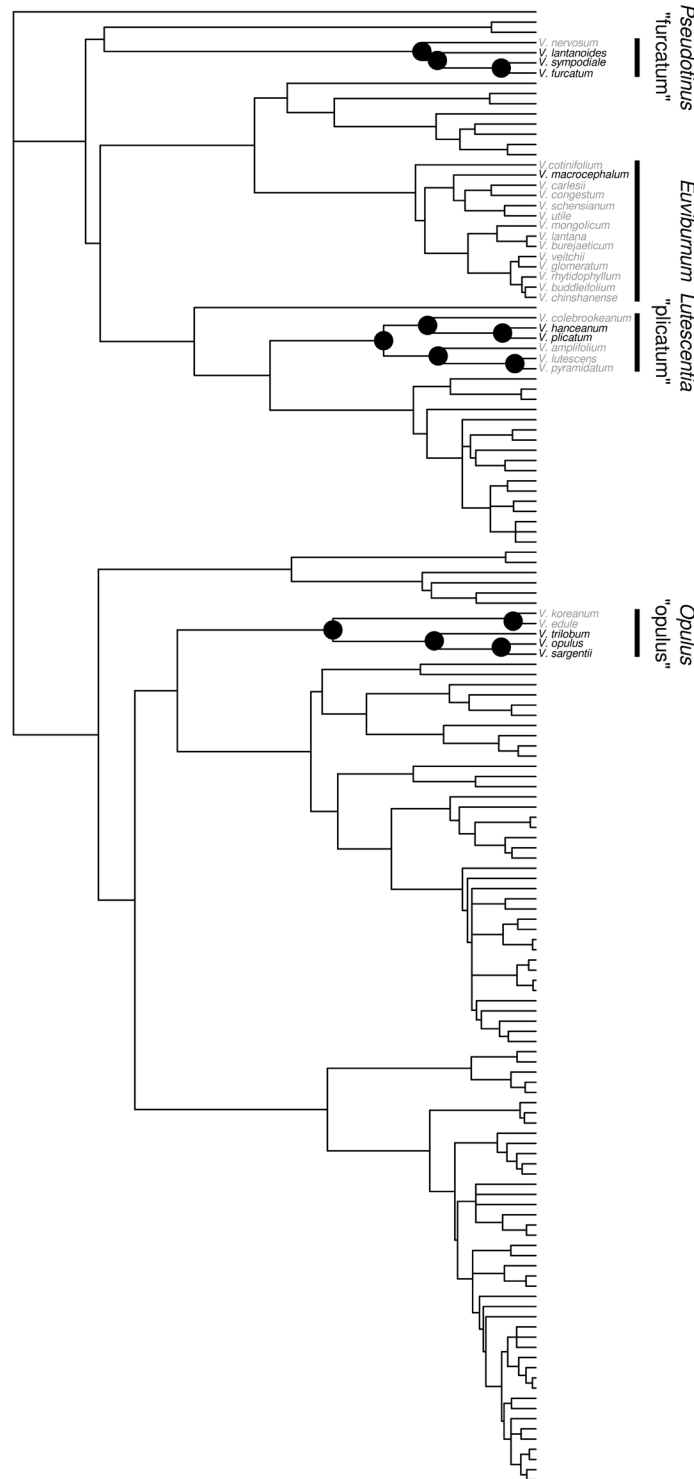


Figure S3. Maximum-likelihood reconstructions of SMF evolution estimated using (A) equal rates, (B) all rates different, and (C) “irreversible” transition models on the 145 taxa *Viburnum* phylogeny. Pie-charts represent the transition probabilities, with black and white denoting the presence or absence of SMFs, respectively. The majority of interior nodes were resolved with > 0.99 probability so pie-charts are displayed for nodes within the SMF clades.

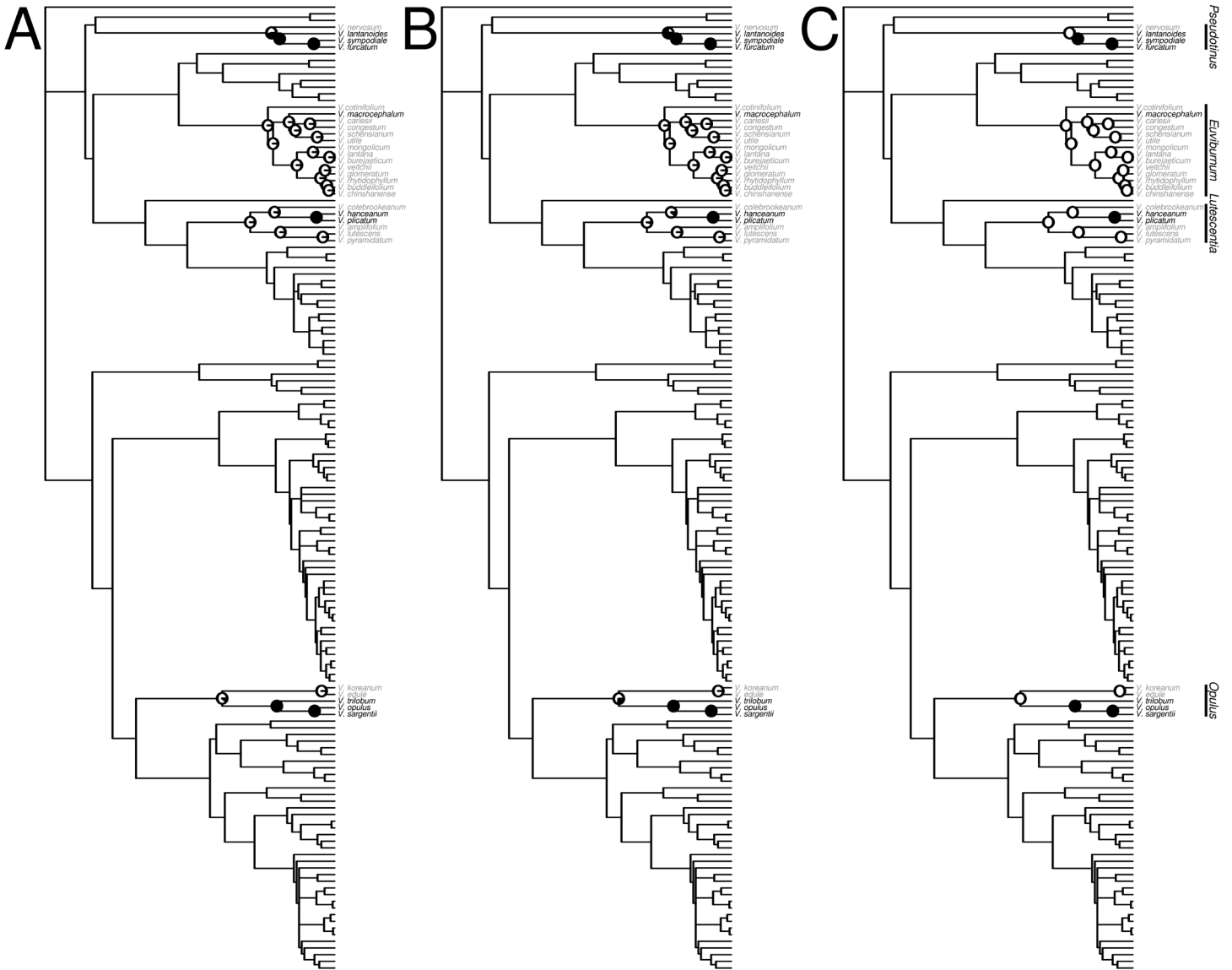


Table S1. Reads sequenced and number of loci recovered per sample analyzed in each dataset. For *Euivburnum*, data are reported for the *min_ingroup_10* dataset.

Clade	Species	Reads (x 10⁶)	Consensus loci	Loci (<i>min4</i>)	Loci (<i>min_ingroup</i>)
<i>Pseudotinus</i>	<i>V. nervosum</i>	2.28	70,450	18,471	7084
	<i>V. lantanooides</i>	5.41	316,669	14,528	7084
	<i>V. sympodiale</i>	4.30	145,031	22,191	7084
	<i>V. furcatum</i>	4.84	239,078	18,374	7084
<i>Urceolata</i> (outgroup)	<i>V. taiwanianum</i>	6.27	303,954	17,766	3439
	<i>V. urceolatum</i>	2.40	99,753	15,238	2768
<i>Opulus</i>	<i>V. edule</i>	1.98	90285	24579	8551
	<i>V. trilobum</i>	0.987	52223	21598	8551
	<i>V. opulus</i>	2.80	71849	25548	8551
	<i>V. sargentii</i>	1.67	58754	22644	8551
<i>Coriacea</i> (outgroup)	<i>V. cylindricum</i>	6.20	229108	23292	4842
<i>Lobata</i> (outgroup)	<i>V. acerifolium</i>	4.02	126363	25995	5536
<i>Euivburnum</i>	<i>V. cotinifolium</i>	1.47	53151	37375	10667
	<i>V. macrocephalum</i>	3.53	75886	44316	11854
	<i>V. schensianum</i>	2.19	106074	51553	12863
	<i>V. utile</i>	2.55	121693	49989	12550
	<i>V. congestum</i>	7.06	25792	15777	5642
	<i>V. bitchiuense</i>	2.45	94305	35398	10418
	<i>V. carlesii</i>	2.45	89710	59755	13495
	<i>V. lantana</i>	1.58	72833	43158	11534
	<i>V. chinshanense</i>	1.97	68404	46604	12073
	<i>V. buddlefolium</i>	3.02	93941	41535	11464
	<i>V. rhytidophyllum</i>	2.59	69136	46519	11948
	<i>V. veitchii</i>	1.95	75609	45698	11923
	<i>V. glomeratum</i>	2.97	100587	43632	11658
<i>Lentago</i> (outgroup)	<i>V. cassinoides</i>	2.97	116046	29408	7041
<i>Punctata</i> (outgroup)	<i>V. punctatum</i>	3.81	102772	38388	9072
<i>Lutescentia</i>	<i>V. lutescens</i>	3.43	102033	28314	13021
	<i>V. amplifolium</i>	2.02	107023	24838	13021
	<i>V. hanceanum</i>	4.75	205033	27138	13021
	<i>V. plicatum</i>	1.85	70192	24733	13021
<i>Solenotinus</i> (outgroup)	<i>V. farreri</i>	2.25	74711	22212	6908
	<i>V. sieboldii</i>	1.47	47615	17062	5048