

Phylogeny of *Virola* (Myristicaceae) and a reassessment its taxonomy. Online supplement.

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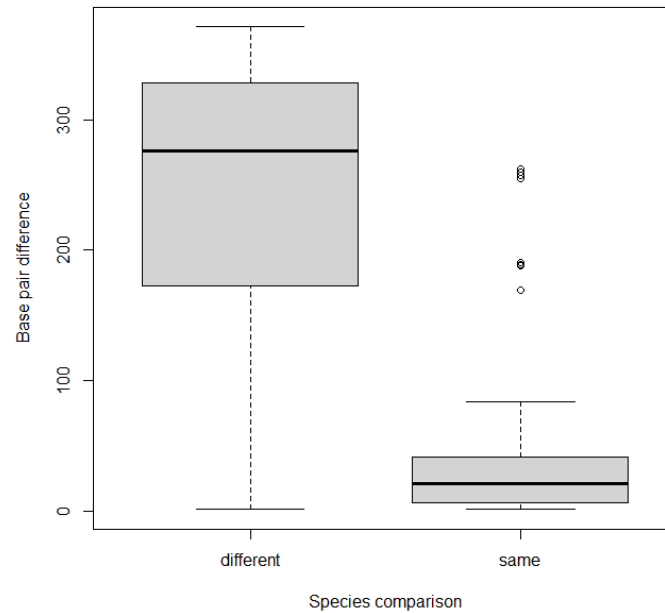
Content

TABLE S1

FIGURE S1

Next page. TABLE S1. Nuclear Ribosomal Sequences (NRb) obtained. Species with authority; Collector and number; Type specimens indicated by *; Source Herbarium, with codes according to Index Herbariorum, “Field” is fresh material collected by R.A.F Lima, “HBL” is fresh material from Hortus Botanicus Leiden; GC percentage (%GC); percentage high quality locations (%HQ); same for low (%LQ) and medium (%MQ); Number of ambiguous sites; Sequence length (in basepairs). Genbank submission number .

Species	collector number	T	H	Nr. Seq.	% GC	% HQ	% LQ	% MQ	Amb.	Length
Bicuiba oleifera (Schott) J.J.de Wilde	Lima 2243		Field	30,713	60.5	100	0	0	10	6108
Bicuiba oleifera (Schott) J.J.de Wilde	Riedel 1138		K	45,824	60.6	100	0	0	7	6116
Myristica frangrans Houtt.	s.n. life specimen		HBL	12,740,996	60.8	100	0	0	15	6098
Osteophleum platyspermum (Spruce ex A.DC.) Warb.	Smith, A.C. 2725		K	11,170,772	60.4	100	0	0	24	6103
Virola aequatorialis Muriel & Balslev	Pennington et al. 13736	*	K	82,808	60.8	100	0	0	0	6116
Virola aequatorialis Muriel & Balslev	Pennington 14924		K	360,239	61.0	100	0	0	0	6123
Virola calophylla (Spruce) Warb.	Spruce 3207	*	G	47,754	61.0	100	0	0	0	6133
Virola calophylla (Spruce) Warb.	Smith, A. C. 2628		U	177,611	61.0	100	0	0	0	6125
Virola calophylla (Spruce) Warb.	Lima, J. 492		U	38,974	61.0	100	0	0	0	6125
Virola calophylla (Spruce) Warb.	Ribeiro, J.E.L.S. 1394		U	143,806	61.0	100	0	0	0	6125
Virola calophylla (Spruce) Warb.	Oldenburger 1400		U	74,740	61.0	100	0	0	0	6132
Virola calophylla (Spruce) Warb.	Clarke, H.D. 4549		U	9,652	60.8	100	0	0	21	6152
Virola calophylloidea Markgr.	Prance, G.T. 22638		U	60,252	60.7	100	0	0	0	6131
Virola calophylloidea Markgr.	Ducke, A. 24540		U	67,045	60.8	100	0	0	3	6113
Virola calophylla (Spruce) Warb.	Prance, G.T. 25564		U	196,359	60.8	100	0	0	2	6113
Virola calophylla (Spruce) Warb.	Krukoff, B.A. 6889		U	66,093	61.2	100	0	0	5	6121
Virola carinata (Benth.) Warb.	Ducke, A. 30146		U	13,085	61.2	100	0	0	2	6121
Virola carinata (Benth.) Warb.	Spruce 1682		G	38,976	60.7	100	0	0	0	6090
Virola carinata (Benth.) Warb.	Lleras, E. 17486		U	59,906	60.8	100	0	0	9	6113
Virola carinata (Benth.) Warb.	Prance, G.T. 22699		U	3,813,331	61.2	100	0	0	2	6122
Virola carinata (Benth.) Warb.	Ducke, A. 24503		U	186,778	61.2	100	0	0	2	6121
Virola divergens Ducke	Ducke, A. 24550	*	U	58,799	61.2	100	0	0	1	6122
Virola divergens Ducke	Ducke, A. 24548		U	98,176	60.9	100	0	0	6	6134
Virola divergens Ducke	Ferreira 8083		K	313,204	60.8	100	0	0	9	6117
Virola dixonii Little	Little et al. 21088	*	QCNE	1,723,243	60.7	100	0	0	1	6112
Virola dixonii Little	León, H. 1384		U	68,062	61.2	100	0	0	6	6128
Virola dixonii Little	Pennington 14967		K	29,885	60.8	100	0	0	5	6117
Virola dixonii Little	Játiva, C.D. 1052		U	13,207	60.7	100	0	0	1	6134
Virola duckei A.C.Sm.	Ducke, A. 24562	*	U	701,853	60.9	100	0	0	7	6120
Virola elongata (Benth.) Warb.	Smith, A.C. 2970		U	7,372	61.2	100	0	0	73	6125
Virola elongata (Benth.) Warb.	Clarke, H.D. 3213		U	9,911	61.4	100	0	0	2	6165
Virola elongata (Benth.) Warb.	Clarke, H.D. 4443		U	1,027,323	61.3	100	0	0	1	6148
Virola elongata (Benth.) Warb.	Clarke, H.D. 7102		U	507,300	61.0	100	0	0	0	6126
Virola excisa D.Santam.	Palacios & Neil 622	*	QCNE	188,051	61.2	100	0	0	0	6132
Virola gardneri (A.DC.) Warb.	Gardner 5596	*	G	35,871	61.1	100	0	0	1	6130
Virola gardneri (A.DC.) Warb.	Ducke, A. 25105		U	10,713	61.0	100	0	0	0	6132
Virola guatemalensis (Hemsl.) Warb.	Weissenhofer 1558		WU	10,247	61.0	100	0	0	6	6133
Virola guatemalensis (Hemsl.) Warb.	Fernandez 354		K	283,906	61.5	100	0	0	1	6155
Virola kwatae Sabatier	Riéra, B. 2034	*	U	105,778	61.5	100	0	0	2	6155
Virola kwatae Sabatier	Prance, G.T. 22636		U	187,380	61.4	100	0	0	6	6133
Virola lieneana Paula & E.P. Heringer	Heringer et al. 758		U	60,329	61.1	100	0	0	95	6133
Virola lieneana Paula & E.P. Heringer	Heringer et al. 690		K	38,061	61.5	100	0	0	2	6155
Virola lorentensis A.C. Sm.	Krukoff 8070		U	79,783	60.8	100	0	0	5	6148
Virola macrocarpa A.C. Sm.	Lawrence 675	*	G	2,215,933	61.3	100	0	0	2	6132
Virola malmei A.C. Sm.	Richards 6536		U	210,902	61.4	100	0	0	5	6154
Virola marlenei W.A.Rodrigues	Vásquez Chávez, R. 4474		U	227,719	61.2	100	0	0	8	6138
Virola michelii Heckel	Granville, J.-J. de 3698		U	463,379	61.2	100	0	0	1	6121
Virola minutiflora (Standl.) A.C. Sm.	Ducke, A. 30138		K	33,447	61.3	100	0	0	3	6135
Virola multicostata Ducke	Sabatier 3252		K	115,126	60.8	100	0	0	2	6117
Virola multicostata Ducke	Krukoff 1310		U	260,715	61.4	100	0	0	0	6148
Virola multinervia Ducke	Sothers, C.A. 1069		U	574,390	60.8	100	0	0	15	6119
Virola multinervia Ducke	Krukoff, B.A. 8891		U	530,658	60.8	100	0	0	1	6118
Virola nobilis A.C.Sm.	Foster, R.B. 2946		U	1,124,085	60.8	100	0	0	3	6117
Virola obovata Ducke	Perez et al. 9376		QCNE	614,353	61.3	100	0	0	2	6137
Virola officinalis Warb.	Blanchet 2359	*	G	197,894	61.3	100	0	0	1	6137
Virola officinalis Warb.	Mattos Silva 2595		K	5,781	61.5	100	0	0	4	6122
Virola officinalis Warb.	Thomas 10787		G	862,830	61.1	100	0	0	0	6131
Virola officinalis Warb.	Mori 10642		K	161,306	61.0	100	0	0	0	6133
Virola officinalis Warb.	Mori 12881		K	81,691	60.7	100	0	0	2	6097
Virola pavonis (A.DC.) A.C.Sm.	Krukoff, B.A. 1333	*	U	106,115	60.7	100	0	0	22	6116
Virola pavonis (A.DC.) A.C. Sm.	Hopkins, M. J. G. 1619		U	4,148,968	60.9	100	0	0	9	6134
Virola pavonis (A.DC.) A.C.Sm.	Evans, R.J. 2484		U	148,059	60.9	100	0	0	16	6121
Virola pavonis (A.DC.) A.C.Sm.	Evans, R.J. 3175		BBS	116,913	61.2	100	0	0	12	6125
Virola peruviana (A.DC.) Warb.	Pennington, T.D. 12211		U	1,181,795	61.5	100	0	0	0	6155
Virola polyneura W.A.Rodrigues	Prance, G.T. 14425	*	U	782,491	61.4	100	0	0	3	6154
Virola sebifera Aubl.	Silva, M. 2424		NHN	33,875	61.3	100	0	0	2	6137
Virola sebifera Aubl.	Smith, A.C. 3419		U	62,424	60.8	100	0	0	9	6110
Virola sebifera Aubl.	Hahn 5657		U	8,519	61.5	100	0	0	12	6120
Virola sessilis (A. DC.) Warb.	Maguire 56558		K	25,078	61.0	100	0	0	0	6133
Virola sp	Ribeiro, J.E.L.S. 1667		U	61,171	60.7	100	0	0	0	6132
Virola subsessilis (Benth.) Warb.	Gardner 2775	*	G	25,852	60.8	100	0	0	7	6116
Virola subsessilis (Benth.) Warb.	Ratter 6824		K	88,111	61.2	100	0	0	1	6121
Virola subsessilis (Benth.) Warb.	Ratter 8035		K	111,236	60.9	100	0	0	0	6115
Virola surinamensis (Rol. ex Rottb.) Warb.	Smith, A.C. 2326		U	55,696	61.2	100	0	0	1	6134
Virola surinamensis (Rol. ex Rottb.) Warb.	Hallé, F. 4402		U	453,246	61.4	100	0	0	6	6158
Virola surinamensis (Rol. ex Rottb.) Warb.	Clarke, H.D. 7711		U	203,462	61.4	100	0	0	0	6165
Virola theiodora (Spruce ex Benth.) Warb.	Schunke Vigo, J. 10007		U	4,646,693	61.3	100	0	0	30	6117
Virola urbaniana Warb.	Glaziou 22036	*	G	722,142	61.4	100	0	0	3	6149
Virola venosa (Benth.) Warb.	Prance, G. T. 21668		U	171,983	61.3	100	0	0	16	6150
Virola venosa (Benth.) Warb.	Silva, N. T. 1147		U	56,686	61.2	100	0	0	0	6121
Virola venosa (Benth.) Warb.	Prance, G. T. 20960		U	74,504	60.8	100	0	0	8	6148



Supplementary Fig. 1. Comparison of base pair differences between individuals of the same and different species. There is a large significant difference between the comparison between (average = 245 base pairs difference) and within species (average = 41 bp) – Anova ($F = 359.1$, $P < 0.001$).