

COLIN E. HUGHES, C. DONOVAN BAILEY, AND STEPHEN A. HARRIS. 2002. Divergent and reticulate species relationships in *Leucaena* (Fabaceae) inferred from multiple data sources: insights into polyploid origins and nrDNA polymorphism. *American Journal of Botany* 89(7): 1057-1073.

Plant material, voucher specimen information, and GenBank ITS accession numbers.

^aHerbarium vouchers are all at FHO, with duplicates variously at CAS, EAP, K, MEXU, NY, US and MO.

^bThe prefix GBAN- has been added to link the online version of American Journal of Botany to GenBank, but is not part of the actual accession number.

^cCollector of seed material, no herbarium voucher.

^dDNA extracted from seedlings from seedlot 89/92 (accession 2) and herbarium voucher material *Hughes* 1583 (accession 3).

^eAccession not included in cpDNA analysis.

^fLetters indicate sequences of different clones for a single individual

Locality	Lat. / Long.	Voucher ^a	Seed- lot ID	Clone ^f	ITS GenBank accession nos. ^b
<u>Desmanthus fruticosus</u> Rose					
La Paz, Baja California Sur, Mexico	24°12'N 110°17'W	<i>Hughes</i> 1532	109/92		GBAN-AF418018
<u>Schleinitzia novoguineensis</u> Verd.					
Munda, Solomon Islands		<i>Chaplin</i> ^c	57/84		GBAN-AF418019
<u>Leucaena collinsii</u> Britton & Rose ssp. <i>collinsii</i>					
1 - Narcisco Mendoza, Chiapas, Mexico	16°33'N 92°59'W	<i>Hughes</i> 527	52/88		GBAN-AF418020
2 - Chacaj, Huehuetenango, Guatemala	15°15'N 91°47'W	<i>Hughes</i> 1187	51/88		
<u>Leucaena collinsii</u> Britton & Rose ssp. <i>zacapana</i> C.E. Hughes					
1 - El Carrizal, Chiquimula, Guatemala	14°40'N 89°30'W	<i>Hughes</i> 1096	57/88		GBAN-AF418023
2 - Puerto de Golpe, El Progreso, Guatemala	15°02'N 89°40'W	<i>Hughes</i> 299	18/84		GBAN-AF418021
3 - Gualán, Zacapa, Guatemala	15°06'N 89°22'W	<i>Hughes</i> 1120	56/88		GBAN-AF418022
<u>Leucaena confertiflora</u> S. Zárate var. <i>adenotheloidea</i> (S. Zárate) C.E. Hughes					
1 - Nicolas Bravo, Puebla, Mexico ^e	18°37'N 97°20'W	<i>Hughes</i> 1730	-----	a	GBAN-AF418078
				b	GBAN-AF418077
2 - Santa Catalina Oxolotepec, Puebla, Mexico	18°36'N 97°15'W	<i>Hughes</i> 1616	120/92	a	GBAN-AF418055
				b	GBAN-AF418026
3 - Santa Catalina Oxolotepec, Puebla, Mexico	18°36'N 97°15'W	<i>Hughes</i> 1731	-----		
<u>Leucaena confertiflora</u> S. Zárate var. <i>confertiflora</i>					

1 - El Moral, Oaxaca, Mexico	17°32'N 96°58'W	Hughes 1653	127/92	a	GBAN-AF418088
				b	GBAN-AF418054
				c	GBAN-AF418056
2 - El Moral, Oaxaca, Mexico ^e	17°31'N 96°56'W	Hughes 1152	-----	a	GBAN-AF418079
				b	GBAN-AF418028
3 - Tamazulapan, Oaxaca, Mexico ^e	17°40'N 97°34'W	Hughes 1510	-----	a	GBAN-AF418025
				b	GBAN-AF418027

Leucaena cuspidata Standley

1 - Jacala, Hidalgo, Mexico	21°02'N 99°10'W	Hughes 1586	88/92		
2 - Mina San Miguel, Hidalgo, Mexico ^{d,e}	20°50'N 99°23'W	Hughes 1583	89/92		GBAN-AF418024
3 - Mina San Miguel, Hidalgo, Mexico ^{d,e}	20°50'N 99°23'W	Hughes 1583	-----		

Leucaena diversifolia (Schltdl.) Benth.

1 - Ocosingo, Chiapas, Mexico	16°59'N 96°45'W	Hughes 1733	146/92	a	GBAN-AF418068
2 - San Bartolo Tutotepec, Hidalgo, Mexico	20°22'N 98°14'W	Hughes 1612	118/92		
3 - San Bartolo Tutotepec, Hidalgo, Mexico	20°25'N 98°13'W	Hughes 1613	81/92	a	GBAN-AF418064
4 - Jalapa de Díaz, Oaxaca, Mexico	18°04'N 96°34'W	Hughes 1666	83/92	a	GBAN-AF418089
5 - San Juan Coyula, Oaxaca, Mexico	17°55'N 96°53'W	Hughes 1651	126/92		
6 - Temazcal, Oaxaca, Mexico	18°16'N 96°22'W	Hughes 1310	31/89	a	GBAN-AF418069
7 - Corral Falso, Veracruz, Mexico	19°26'N 96°45'W	Hughes 916	45/87		
8 - Jalapa, Veracruz, Mexico ^e	19°32'N 96°55'W	Hughes 921	46/87	a	GBAN-AF418067
9 - Barillas, Huehuetenango, Guatemala	15°48'N 91°48'W	Hughes 1693	82/92	a	GBAN-AF418070
10 - Bulolo, Papua New Guinea			1/90		

Leucaena esculenta (Sessé & Mociño ex. DC.) Benth.

1 - San Martin Pachívia, Guerrero, Mexico	18°18'N 90°45'W	Hughes 894	47/87		GBAN-AF418096
2 - Tiringucha, Michoacán, Mexico	18°38'N 100°48'W	Hughes 903	48/87		

Leucaena greggii S. Watson

El Barrial, Nuevo León, Mexico	24°50'N 100°10'W	Hughes 1057	82/87		GBAN-AF418066
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Leucaena involucrata S. Zárate

1 - El Novillo, Sonora, Mexico	28°55'N 109°28'W	Hughes 1522	146/91	a	GBAN-AF418091
				b	GBAN-AF418057
2 - El Novillo, Sonora, Mexico ^e	28°55'N 109°28'W	Hughes 1523	----	a	GBAN-AF418093

3 - El Novillo, Sonora, Mexico ^e	28°59'N 109°36'W	Hughes 1572	87/92	a	GBAN-AF418104
				b	GBAN-AF418094

Leucaena lanceolata S. Watson var. lanceolata

1 - Playa Azul, Michoacán, Mexico	18°04'N 102°34'W	Hughes 631	46/85		GBAN-AF418031
2 - Matías Romero, Oaxaca, Mexico	16°46'N 95°03'W	Hughes 1672	134/92		
3 - San Jon, Oaxaca, Mexico	16°02'N 95°39'W	Hughes 559	43/85		
4 - Escuinapa, Sinaloa, Mexico	22°46'N 105°54'W	Hughes 613	44/85		GBAN-AF418029
5 - Sierra de Alamos, Sonora, Mexico	26°59'N 108°57'W	Hughes 1577	90/92		GBAN-AF418030
6 - El Rinconada, Veracruz, Mexico	19°25'N 96°28'W	Hughes 913	-----	a	GBAN-AF418050

Leucaena lanceolata S. Watson var. sousae (S. Zárate) C.E. Hughes

1 - Cacalote, Oaxaca, Mexico	16°02'N 97°35'W	Hughes 872	50/87		GBAN-AF418051
2 - Puerto Angel, Oaxaca, Mexico	15°40'N 96°30'W	Hughes 858	51/87		

Leucaena lempirana C.E. Hughes

1 - Cuyamapa, Yoro, Honduras	15°17'N 87°40'W	Hughes 1411	6/91		
2 - Valle del Aguán, Yoro, Honduras	15°26'N 86°50'W	Hughes 1447	5/91		GBAN-AF418032

Leucaena leucocephala (Lam.) de Wit ssp. glabrata (Rose) S. Zárate

1 - Loreto, Baja California Sur, Mexico	26°00'N 111°21'W	Hughes 1557	95/92		
2 - El Pescadero, Baja California Sur, Mexico	23°22'N 110°09'W	Hughes 1547	91/92	a	GBAN-AF418084
				b	GBAN-AF418090
3 - Cintalapa de Figueroa, Chiapas, Mexico	16°46'N 93°26'W	Hughes 1679	136/92		
4 - Ixmiquilapan, Hidalgo, Mexico	20°30'N 99°12'W	Hughes 1578	93/92	a	GBAN-AF418087
				b	GBAN-AF418047
5 - Teotitlán del Camino, Oaxaca, Mexico	18°10'N 97°05'W	Hughes 1638	84/92	A	GBAN-AF418081
				b	GBAN-AF418073
				c	GBAN-AF418052
6 - Zapotitlán Salinas, Puebla, Mexico	18°19'N 97°28'W	Hughes 1618	121/92	a	GBAN-AF418071
				b	GBAN-AF418072
7 - Lagunita, Querétaro, Mexico	21°14'N 99°15'W	Hughes 1596	86/92		
8 - Tamazunchale, San Luis Potosí, Mexico	21°17'N 98°48'W	Hughes 1591	85/92	a	GBAN-AF418074
9 - Caitime, Sinaloa, Mexico	25°13'N 107°59'W	Hughes 1519	145/91		
10 - Empalme, Sonora, Mexico	27°57'N 110°48'W	Hughes 1568	94/92		

11 - Tecupa, Sonora, Mexico	28°31'N 109°10'W	Hughes 1574	92/92
12 - Masagua, Escuintla, Guatemala			45/88
13 - Barillas, Huehuetenango, Guatemala	15°48'N 91°48'W	Hughes 1698	139/92
14 - Gualán, Zacapa, Guatemala			44/88
15 - Operation Double Harvest, Haiti			32/88
16 - Duyure, Choluteca, Honduras	13°38'N 86°55'W	Stead & Styles 705	19/81
17 - Waimanalo, Hawaii, USA			74/91

Leucaena leucocephala (Lam.) de Wit ssp. ixtahuacana C.E. Hughes

1 - Ixtahuacan, Huehuetenango, Guatemala	15°23'N 91°50'W	Hughes 1689	117/92	a	GBAN-AF418061
				b	GBAN-AF418048
2 - Ixtahuacan, Huehuetenango, Guatemala	15°25'N 91°48'W	Hughes 1469	24/91	a	GBAN-AF418082
				b	GBAN-AF418060

Leucaena leucocephala (Lam.) de Wit ssp. leucocephala

1 - Francisco Escarcega, Campeche, Mexico	18°35'N 90°46'W	Hughes 1734	80/92	a	GBAN-AF418053
				b	GBAN-AF418083
				c	GBAN-AF418102
2 - Matias Romero, Oaxaca, Mexico	16°48'N 95°03'W	Hughes 1671	133/92		
3 - Chetumal, Quintana Roo, Mexico	18°31'N 88°24'W	Hughes 1735	147/92	a	GBAN-AF418086
				b	GBAN-AF418101
4 - Waimanalo, Hawaii, USA			73/91		

Leucaena macrophylla Benth. ssp. istmensis C.E. Hughes

1 - Coyula, Oaxaca, Mexico	15°58'N 97°10'W	Hughes 855	39/89		
2 - San Isidro Llano Grande, Oaxaca, Mexico	15°59'N 97°16'W	Hughes 580	47/85		GBAN-AF418033

Leucaena macrophylla Benth. ssp. macrophylla

Vallecitos, Guerrero, Mexico	18°00'N 101°18'W	Hughes 1179	55/88		GBAN-AF418034
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Leucaena magnifica (C.E. Hughes) C.E. Hughes

1 - El Rincón, Chiquimula, Guatemala	14°40'N 89°42'W	Hughes 412	19/84		GBAN-AF418035
2 - Quetzaltepeque, Chiquimula, Guatemala	14°37'N 89°27'W	Hughes 720	58/88		GBAN-AF418036

Leucaena matudae (S. Zárate) C.E. Hughes

Mezcala, Guerrero, Mexico	17°51'N 99°40'W	Hughes 879	49/87		GBAN-AF418100
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Leucaena multicapitula Schery

1 - Peñas Blancas, Guanacaste, Costa Rica	11°10'N 85°37'W	Hughes 1024	86/87		
2 - Los Santos, Los Santos, Panama	7°55'N 80°25'W	Hughes 1025	81/87		GBAN-AF418037

Leucaena pallida Britton & Rose

1 - Mazapa, Guerrero, Mexico	17°55'N 99°37'W	Hughes 886	44/87		GBAN-AF418097
2 - Guelatao, Oaxaca, Mexico [°]	17°18'N 96°30'W	Hughes 1662	78/92	a	GBAN-AF418092
				b	GBAN-AF418058
3 - Tamazulapan, Oaxaca, Mexico	17°41'N 97°35'W	Hughes 1629	79/92		GBAN-AF418098
4 - Santiago Acatepec, Puebla, Mexico [°]	18°14'N 97°33'W	Hughes 1620	122/92	a	GBAN-AF418095
				b	GBAN-AF418059
				c	GBAN-AF418103

Leucaena pueblana Britton & Rose

1 - Tehuacan Valley, Oaxaca, Mexico	17°53'N 97°01'W	Hughes 1648	125/92		GBAN-AF418099
2 - Coxcatlan, Puebla, Mexico	18°16'N 97°10'W	Hughes 1327	34/89		

Leucaena pulverulenta (Schltdl.) Benth.

1 - Huejutla de Reyes, Hidalgo, Mexico	21°05'N 98°29'W	Hughes 1611	-----	a	GBAN-AF418076
2 - Ejido El Popote, Nuevo León, Mexico [°]	24°54'N 99°29'W	Bendeck [°]	22/86	a	GBAN-AF418075
				b	GBAN-AF418085
3 - Xilitla, San Luis Potosí, Mexico [°]	21°23'N 98°56'W	Hughes 1593	-----	a	GBAN-AF418062
4 - Altas Cumbres, Tamaulipas, Mexico	23°36'N 99°14'W	Hughes 1051	83/87		
5 - Misantla, Veracruz, Mexico	19°56'N 96°51'W	Hughes 1866	-----	a	GBAN-AF418080
6 - Kingsville, Texas, USA	27°35'N 97°50'W	Hughes 1058	84/87		GBAN-AF418063

Leucaena retusa Benth.

Sierra La Encantada, Coahuila, Mexico	28°44'N 102°20'W	Bendeck [°]	23/86		GBAN-AF418065
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Leucaena salvadorensis Standley ex Britton & Rose

1 - Calaire, Choluteca, Honduras	13°15'N 87°06'W	Hughes 746	34/88		
2 - La Galera, Choluteca, Honduras		-----	98/90		
3 - La Garita, Choluteca, Honduras	13°26'N 87°11'W	Hughes 742	17/86		
4 - Namali, Valle, Honduras		-----	99/90		
5 - San Juan de Limay, Estelí, Nicaragua	13°12'N 86°29'W	Hughes 1407	7/91		GBAN-AF418038

Leucaena shannonii J.D. Smith

1 - Champotón, Campeche, Mexico	19°20'N 90°43'W	<i>Hughes</i> 507	53/87		GBAN-AF418042
2 - Cintalapa de Figueroa, Chiapas, Mexico	16°41'N 93°37'W	<i>Hughes</i> 1676	135/92		GBAN-AF418039
3 - Jutiapa, Jutiapa, Guatemala	14°22'N 89°46'W	<i>Hughes</i> 1417	1/91		GBAN-AF418041
4 - Comayagua, Comayagua, Honduras ^e	14°28'N 87°44'W	<i>Hughes</i> 239	26/84	a	GBAN-AF418049
5 - Santa Rita, Yoro, Honduras	15°12'N 87°50'W	<i>Hughes</i> 1714	141/92		GBAN-AF418040
6 - Juigalpa, Chontales, Nicaragua	12°11'N 85°19'W	<i>Hughes</i> 1401	2/91		

***Leucaena trichandra* (Zucc.) Urban**

1 - La Trinitaria, Chiapas, Mexico	16°05'N 92°03'W	<i>Hughes</i> 1682	137/92		GBAN-AF418045
2 - Guelatao, Oaxaca, Mexico	17°18'N 96°30'W	<i>Hughes</i> 1663	131/92		
3 - Oaxaca, Oaxaca, Mexico	17°06'N 96°37'W	<i>Hughes</i> 1654	128/92		GBAN-AF418044
4 - Los Guates, Guatemala, Guatemala	14°49'N 90°37'W	<i>Hughes</i> 1106	53/88		GBAN-AF418043
5 - Aguacatán, Huehuetenango, Guatemala	15°21'N 91°17'W	<i>Hughes</i> 1691	54/88		
6 - San Marcos, San Marcos, Guatemala	14°51'N 91°46'W	<i>Hughes</i> 1701	140/92		
7 - Copan, Copan, Honduras	14°51'N 89°10'W	<i>Hughes</i> 1706	3/91		
8 - Erandique, Lempira, Honduras	14°21'N 88°33'W	<i>Hughes</i> 1421	4/91		
9 - Erandique, Lempira, Honduras	14°12'N 88°31'W	<i>Hughes</i> 1708	-----		
10 - Erandique, Lempira, Honduras	14°12'N 88°31'W	<i>Hughes</i> 1709	-----		
11 - Erandique, Lempira, Honduras	14°12'N 88°31'W	<i>Hughes</i> 1710	-----		
12 - Zambrano, Francisco Morazán, Honduras	14°14'N 87°30'W	<i>Hughes</i> 1083	35/88		

***Leucaena trichodes* (Jacq.) Benth.**

1 - Jipijapa, Manabí, Ecuador	1°21'S 80°35'W	<i>Hughes</i> 997	61/88		GBAN-AF418046
2 - Cuicas, Trujillo, Venezuela	9°38'N 70°18'W	<i>Hughes</i> 775	2/86		
