

WIM J. M. KOOPMAN, VOLKER WISSEMAN, KATRIEN DE COCK, JOHAN VAN HUYLENBROECK, JAN DE RIEK, GERDA J. H. SABATINO, DIRK VISSER, BEN VOSMAN, CHRISTIANE M. RITZ, BERT MAES, GUN WERLEMARK, HILDE NYBOM, THOMAS DEBENER, MARCUS LINDE, AND MARINUS J. M. SMULDERS 2008. AFLP markers as a tool to reconstruct complex relationships: A case study in *Rosa* (Rosaceae). *American Journal of Botany* 95(3): 353-366.

**Appendix 1.** List of all accessions used in the phenetic analysis of species relationships and cultivar affinities. Voucher numbers: WK indicates voucher specimens deposited at the herbarium of the Wageningen branch of the National Herbarium Nederland (WAG). HW indicates voucher specimens in the Herbarium Wissemann. These are stored under species name and description and thus have no voucher numbers. HM indicates voucher specimens in the Herbarium Maes. Garden numbers: three- and four-digit numbers are from the "Rozen tuin Mechelen," Belgium. The remaining numbers are from the botanical gardens of Wageningen University, The Netherlands. For the phylogenetic analyses of species relationships, the accessions marked by double asterisks were excluded.

Affiliation	Origin	Voucher	Garden nr.
<b>1 Subgenus Hulthemia (Dumort.) Focke 1888</b>			
<i>R. persica</i> Michx. ex Juss. RS 451		WK 1023	
<b>2 Subgenus Rosa</b>			
<b>Sect. 1. Pimpinellifoliae (DC.) Ser. 1825.</b>			
<i>R. foetida</i> J.Herrmann RS 30		WK 761/925	86BG56907
<i>R. hugonis</i> Hemsl. RS 440		WK 1012	B2.05
<i>R. sericea</i> Lindl. var. <i>omeiensis</i> (Rolfe) G.D.Rowley RS 16		WK 792	84BGN1038
<i>R. spinosissima</i> L. RS 222	Wurmlingen, Germany	HW	—
RS 93		WK 778	19--BG24226
RS 29	'Kakwa'***	WK 760	84BGN0304

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**Sect. 2. Rosa (= sect. Gallicanae (DC.))**

*R. gallica* L.

RS 210	Rottenburg, Germany	HW	—
RS 7	'Boule de Nanteuil'**	WK 840	19--BG13225

*Rosa* × *centifolia* L.

RS 101	'Blanche Moreau'	WK 781/931	19--BG16954
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*Rosa* × *damascena* Mill.

RS 10	'Ispahan'	WK 787/921	19--BG13229
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**Sect. 3. Caninae (DC)**

**1 subsect. *Trachyphyllae* H. Christ**

*R. jundzillii*

RS 213	Rottenburg, Germany	HW	—
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**2 subsect. *Rubrifoliae* Crépin**

*R. glauca* Pourr.

RS 211	Schwäbische Alb, Germany	HW	—
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RS 163	Kungsbacka, Sweden	HW	—
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**3 subsect. *Vestitae* H. Christ**

*R. mollis* Sm.

RS 217	Geltinger Birk, Germany	HW	—
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*R. pseudoscabriuscula* (R.Keller) Henker & G.Schulze

RS 219	Rottenburg, Germany	HW	—
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RS 152	Simmerath, Germany	HM 03091601	—
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*R. sherardii* Davies

RS 221	Baltic Sea, Germany	HW	—
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RS 165	Central Fyn, Denmark	HW	—
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RS 166	Falkenberg, Sweden	HW	—
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*R. tomentosa* Sm.

RS 227	Laichingen, Germany	HW	—
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*R. villosa* L.

RS 228	Donautal, Germany	HW	—
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RS 23		WK 796	19--BG24433
<i>Rosa villosa</i> L. subsp. <i>mollis</i> (Sm.) Keller & Gams			
RS 24		WK 797	90BG23522
<b>4 subsect. Rubigineae H. Christ</b>			
<i>R. agrestis</i> Savi			
RS 203	Rottenburg, Germany	HW	—
RS 146	Aachen, Germany	HM 03091602	—
RS 160	Kristianstad, Sweden	HW	—
<i>R. elliptica</i> Tausch			
RS 209	Münsinghausen	HW	—
<i>R. inodora</i> Fr.			
RS 212	Rottenburg, Germany	HW	—
<i>R. micrantha</i> Borrer ex. Sm.			
RS 215	Pfullingen, Germany	HW	—
RS 216	Pfullingen, Germany	HW	—
RS 151	Breinig, Germany	HM 03091603	—
<i>R. rubiginosa</i> L.			
RS 220	Rottenburg, Germany	HW	—
<i>R. henkeri-schulzei</i> Wissemann (= <i>R. columnifera</i> (Schwertschlager) Henker & G.Schulze)			
RS 162	Ytterör, Öland, Sweden	HW	—
<i>R. turcica</i> Rouy			
RS 77		WK 816	86BG36004
<b>5 subsect. Tomentellae H. Christ</b>			
<i>R. tomentella</i> Léman in Cassini			
RS 226	Rottenburg, Germany	HW	—
RS 154	Aachen, Germany	HM 03091604	—
RS 78		WK 835	19--BG23936
<i>R. abietina</i> Gren. ex Christ			
RS 202	Bramwald, Glarus, Switzerland	HW	—

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**6 subsect. *Caninae***

*R. caesia* Sm.

RS 205	Rottenburg, Germany	HW	—
RS 44		WK 807	80BGC0207

*R. canina* L.

RS 147	Breinig, Germany	HM 03091605	—
RS 156	St. Laureins, Belgium	HM 03093001	—
RS 4		WK 854	81BGC0125
RS 69		WK 837	96BG67808
RS 70	'Superbe'***	WK 810	80BGN0708
RS 71	'Pfander'***	WK 811	80BGN0705
RS 72	'Schmid's Ideal'***	WK 838	80BGN0707

*R. canina* var. *andegavensis*

RS 206	Wurmlingen, Germany	HW	—
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*R. corymbifera* Borkh.

RS 207	Rottenburg, Germany	HW	—
RS 17		WK 793	85BG29403
RS 32		WK 845	19--BG22533
RS 76	'Laxa'***	WK 815	80BGN0709
RS 36	'Laxa'***	WK 799	XXBG00244
RS 201	'Laxa'	HW	—

*R. dumalis* Bechst.

RS 208	Laichingen, Germany	HW	—
RS 148	Marmagen, Germany	HM 03091606	—
RS 100		WK 829	84BG38907

*R. stylosa* Desvaux

RS 223	Oviedo-Asturien, Germany	HW	—
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*R. subcanina* (H.Christ) R.Keller

RS 224	Rottenburg, Germany	HW	—
RS 153	Marmagen, Germany	HM 03091607	—

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<i>R. subcollina</i> (H.Christ) R.Keller			
RS 225	Laichingen, Germany	HW	—
RS 155	Maldegem, Belgium	HM 03093002	—
RS 161	Gardby, Öland, Sweden	HW	—
<b>Sect. 4. <i>Carolinae</i> Crépin 1891</b>			
<i>R. nitida</i> Willd.			
RS 442		WK 1014	B3.04
<i>R. virginiana</i> Herrm.			
RS 443		WK 1015	B3.05
<b>Sect. 5. <i>Cinnamomeae</i> (DC.) Ser. 1825</b>			
<i>R. acicularis</i> Lindl.			
RS 67		WK 771	89BG38315
RS 106		WK 861	80BG12204
<i>R. arkansana</i> Porter ex I.M. Coult.			
RS 445		WK 1017	B7.06
<i>R. blanda</i> Ait.			
RS 447		WK 1019	B7.09
<i>R. majalis</i> Herrm.			
RS 214	Allgäu, Germany	HW	—
RS 164	Umea, Sweden	HW	—
RS 40		WK 764/923	80BGC0209
RS 39	'Fulgens'***	WK 762	19--BG21953
<i>R. sweginzowii</i> Koehne			
RS 63	'Macrocarpa'***	WK 805	19--BG22293
<i>R. willmottiae</i> Hemsl.			
RS 43	'Wisley Farm'***	WK 765	19--BG23905
<i>R. pendulina</i> L.			
RS 218	Donautal, Germany	HW	—

<i>R. rugosa</i> Thunb.			
RS 49		WK 772	81BG38904
<i>R. sertata</i> Rolfe			
RS 96		WK 780	84BG04315
<i>R. woodsii</i> Lindl.			
RS 92		WK 777	85BG34202
RS 50		WK 848	80BGC0208
<b>Sect. 6. <i>Synstylae</i> DC. 1813</b>			
<i>R. arvensis</i> Huds.			
RS 204	Rottenburg, Germany	HW	—
RS 2		WK 853/855	82BG24303
RS 18		WK 841	96BGWAG46
<i>R. multiflora</i> Thunb. ex Murr.			
RS 55		WK 850	97BG44811
RS 58		WK 851	96BGWAG29
RS 53	'Inermis'**	WK 849	19--BG22292
<i>R. wichurana</i> Crép.			
RS 59		WK 873	19--BG23967
RS 60		WK 874	97BGWAG03
RS 61	'Temple Bells'**	WK 875	19--BG23957
<i>R. moschata</i> Herrm.			
RS 436		WK 1008	26.21
<b>3 Subgenus <i>Platyrhodon</i> (Hurst) Rehder 1940</b>			
<i>R. roxburghii</i> Tratt.			
RS 444		WK 1016	B5.02
<b>Genus <i>Rubus</i></b>			
<i>R. phoenicolasius</i> Maxim.	Cultivated	WK 940	—
<i>R. fruticosus</i> L.	Edese hei, Ede, The Netherlands	WK 942	--

<i>R. caesius</i> L.	Wageningse Berg, Wageningen, The Netherlands	WK 939	--
<b>Additional cultivars</b>			
'Aimée Vibert'	Noisette	WK 988	10.18
'Alba Suaveolens'	Alba	WK 979	4.06
'Aloha'	Climbing hybrid tea	WK 996	21.24
'Arthur de Sansal'	Portland	WK 991	11.06
'Blush Damask'	Damascena	WK 977	3.11
'Catherine Mermet'	Tea	WK 987	10.04
'Chateau de Namur'	Gallica	WK 974	2.02
'Climbing Cécile Brunner'	Climbing polyantha	WK 999	22.07
'Communis'	Moss	WK 973	1.21
'Diablotin'	Floribunda	WK 1000	23.04
'Félicité Parmentier'	Alba	WK 978	4.04
'Fellenberg'	Noisette	WK 989	10.2
'Guirlande d'Amour'	Hybrid moschata	WK 1006	26.03
'James Mitchel'	Moss	WK 982	6.25
'Kathleen Harrop'	Bourbon	WK 984	9.05
'La Reine'	Hybrid perpetual	WK 993	11.19
'La Ville de Bruxelles'	Damascena	WK 976	3.09
'Le Rire Niais'	Centifolia	WK 980	5.34
'Little Buckaroo'	Miniature	WK 1003	24.18
'Mignonette'	Polyantha	WK 998	22.01
'Miranda'	Portland	WK 990	11.04
'Nevada'	Hybrid moyesii	WK 1004	25.02
'Nozomi'	Climbing miniature	WK 1002	24.02
'Pink Chimo'	Shrub rose	WK 1010	28.09
'Prosperity'	Hybrid moschata	WK 1007	26.11
'Queen of Bourbons'	Bourbon	WK 985	9.09
'Rose de Meaux'	Centifolia	WK 981	5.36

'Scharlachglut'***	Shrub rose	WK 1011	30.17
'Slater's Crimson China'***	Chinese ancestor	WK 994	7.02
'Superb Tuscan'***	Gallica	WK 975	2.24
'Triomphe de Luxembourg'***	Tea	WK 986	10.02
'Violette'***	Hybrid multiflora	WK 1009	28.04
'Yolande d'Aragon'***	Hybrid perpetual	WK 992	11.16