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Documented somatic chromosome numbers are provided for 19 species and 2 reputed hybrids in the 6 genera of the New Zealand Myrtaceae as well as 1 Australian species of the genus *Leptospermum*. All New Zealand taxa are diploid ($2n = 22$). *Leptospermum minutifolium* and *L. myrtifolium* from Australia are tetraploid ($2n = 44$).

Key words: Myrtaceae, Chromosome numbers, *Metrosideros*; *Metrosideros bartlettii*; *Metrosideros excelsa*; *Metrosideros robusta*; *Metrosideros umbellata*.

Contributions to a chromosome atlas of the New Zealand flora — 29 Myrtaceae

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Keywords chromosome numbers; Myrtaceae;
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Abstract Documented somatic chromosome numbers are provided for 19 species and 2 reputed hybrids in the 6 genera of the New Zealand Myrtaceae as well as 11 Australian species of the genus *Leptospermum*. All New Zealand taxa are diploid ($2n = 22$). *Leptospermum minutifolium* and *L. myrtifolium* from Australia are tetraploid ($2n = 44$).

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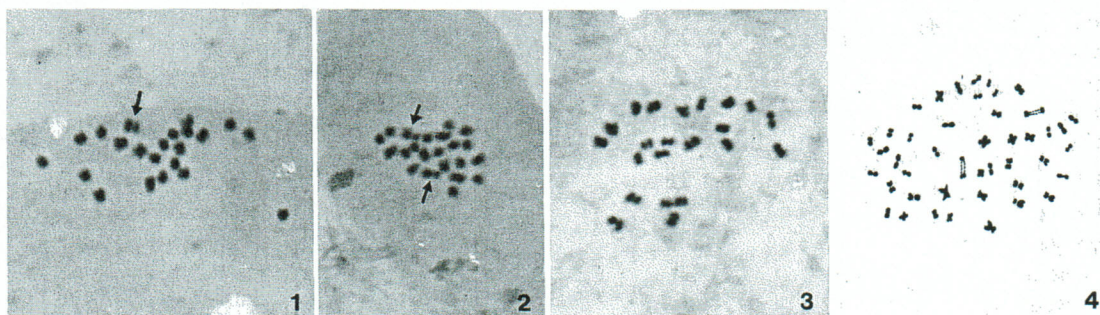


Fig. 1-4
Fig. 1 *Lophomyrtus bullata* ($2n = 22$).
Fig. 2 *Metrosideros perforata* ($2n = 22$).
Fig. 3 *Leptospermum lanigerum* var. *lanigerum* ($2n = 22$).
Fig. 4 *Leptospermum myrtifolium* ($2n = 44$). Drawing tube illustration.
All Figures $\times 1500$. Arrows indicate distinctive SAT-chromosomes.

Table 1 Documented chromosome numbers of New Zealand plants: Myrtaceae.

Species	2n	Source	CHR
<i>Kunzea ericoides</i> * (A. Rich.) J. Thompson	22	Mangakirikiri Stream, Gisborne	416298
	22	Near Pelorus Bridge, Marlborough	-
	22	Lottery R., N Canterbury	416299
<i>K. sinclairii</i> † (Kirk) W. Harris	22	Okuti Valley, Banks Peninsula	-
<i>Leptospermum scoparium</i> J. et G. Forster	22	Great Barrier I., N Auckland	416002
	22	Okiwi Bay, Marlborough	419622
	22	St Arnaud, Nelson Lakes National Park	416301
<i>Lophomyrtus bullata</i> (Cunn.) Burret	22	Denniston Plateau, NE of Westport	416300
	22	Regional Botanic Gardens, Auckland	419626
<i>L. obcordata</i> (Raoul) Burret	22	Prices Valley, Banks Peninsula	419632
<i>Metrosideros albiflora</i> Gaertner	22	Puketi State Forest, Bay of Islands	421053
	22	Duncan & Davies Ltd., New Plymouth	-
<i>M. bartlettii</i> J. Wyndham Dawson	22	Te Paki, North Cape	421275
<i>M. carminea</i> W. Oliver	22	L. Rotoiti, South Auckland	416295
	22	Otari Open-Air Native Plant Museum, Wellington	416294
<i>M. colensoi</i> Hook. f.	22	Waitomo County, South Auckland	421276
<i>M. diffusa</i> (G. Forster) Smith	22	Regional Botanic Gardens, Auckland	419431
	22	L. Rotoma, South Auckland	419432
<i>M. excelsa</i> Gaertner	22	Botanic Gardens, Auckland	416304
<i>M. fulgens</i> Gaertner	22	Regional Botanic Gardens, Auckland	421277
	22	Regional Botanic Gardens, Auckland	419426
<i>M. kermadecensis</i> W. Oliver	22	Cult., Auckland University	415997
	22	Botanic Gardens, Wellington	419625
<i>M. parkinsonii</i> J. Buch.	22	Municipal Nursery, Christchurch	416558
	22	Regional Botanic Gardens, Auckland	419427
<i>M. perforata</i> (J. et G. Forster) A. Rich.	22	Puketi State Forest, Bay of Islands	420528
	22	Kauri Glen, Auckland	416541-2
<i>M. robusta</i> Cunn.	22	Regional Botanic Gardens, Auckland	419428
	22	Cult., Auckland University	415998
<i>M. umbellata</i> Cav.	22	Puriri, Thames	419633
	22	Peel Forest, S Canterbury	416296
<i>Neomyrtus pedunculata</i> (Hook. f.) Allan	22	Peel Forest, S Canterbury	416297
	22	Mt. Hauhungatahi, Tongariro National Park	416309-2
<i>Syzygium maire</i> (Cunn.) Sykes et Garnock-Jones	22	West Coast, South Island	421278-2
	22	Judgeford, Wellington Province	416293
Hybrids			
<i>Lophomyrtus bullata</i> × <i>L. obcordata</i>	22	Cult., Auckland University	419430
<i>Metrosideros excelsa</i> × <i>M. robusta</i>	22	Rangitoto I.	418825

* = *Leptospermum ericoides* A. Rich.† = *Leptospermum sinclairii* Kirk.

Table 2 Documented chromosome numbers in *Leptospermum* (Myrtaceae): Australian species.

Species	2n	Source	CHR
<i>Leptospermum flavescens</i> Smith	22	Gara R., Armidale, N.S.W.	416305
<i>L. glabrescens</i> Wakef.	22	Beenak Forest, NE of Gembrook, Victoria	416562
<i>L. glaucescens</i> Schauer	22	Midway Point, Tasmania	416561
<i>L. lanigerum</i> (Aitch.) Smith			
var. <i>lanigerum</i>	22	Mt Gingera, Brindabella Ra., A.C.T.	416556
var. <i>macrocarpum</i> Maiden et Betche	22	Lion Rock, Berambing, near Bilpin, N.S.W.	416555
<i>L. minutifolium</i> C. J. White	44	Point Lookout, 80 km E of Armidale, N.S.W.	421052
<i>L. myrtifolium</i> DC.	44	Snowy Flats, Brindabella Ra., A.C.T.	416557
<i>L. petersonii</i> Bailey	22	Sherwood Ck., Corindi Beach, N.S.W.	416003
<i>L. rupestre</i> Hook. f.	22	Mt Wellington, Hobart, Tasmania	419620
<i>L. scoparium</i> J. et G. Forster			
var. <i>eximium</i> B. L. Burt	22	Near Port Arthur, Tasmania	416008
var. <i>rotundifolium</i> Maiden et Betche	22	Budawang Ra., 7.5 km S of Sassafras, N.S.W.	416306
<i>L. squarrosum</i> Gaertner	22	S of Waterfall Post Office, N.S.W.	416007
<i>L. sp. aff. sphaerocarpum</i> Cheel	22	Colo R. Gorge, below Boorai Ridge, N.S.W.	419621