

**Table S5. Number of samples and geographic localities used in the DNA barcoding study of New Zealand skinks based on the 1977**

**taxonomy** (see Tables S1 and S2 for additional details). The level (mean  $\pm$  standard error [SE], and range) of intraspecific K2P genetic distances is shown for each New Zealand skink species. The sample codes (see Table S2) for the new discoveries since 1977 are indicated.

Species	No. samples	No. geographic localities	Intraspecific genetic distance	
			Mean $\pm$ SE	Range
<i>Cyclodina aenea</i>	13	10	6.57 $\pm$ 0.62	0 – 13.9
<i>Cyclodina alani</i>	6	4	1.83 $\pm$ 0.31	0 – 4.3
<i>Cyclodina macgregori</i>	2	1	1.00 $\pm$ 0.36	1.0
<i>Cyclodina oliveri</i>	23	10	5.73 $\pm$ 0.06	0 – 10.4
<i>Cyclodina ornata</i>	7	7	4.47 $\pm$ 0.53	1.4 – 7.7
<i>Cyclodina whitakeri</i>	7	3	2.3 $\pm$ 0.11	0 – 0.4
<i>Leiopisma acrinasum</i>	2	2	0.57 $\pm$ 0.26	0.6
<i>Leiopisma chloronoton</i>	8	8	8.20 $\pm$ 0.76	1.6 – 11.6
<i>Leiopisma fallai</i>	2	1	0	0
<i>Leiopisma grande</i>	1	1	—	—
<i>Leiopisma homalonotum</i>	2	2	0	0
<i>Leiopisma infrapunctatum</i>	28	14	3.24 $\pm$ 0.38	0 – 7.1
<i>Leiopisma lineocellatum</i>	14	10	7.47 $\pm$ 0.07	0 – 12.0

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<i>Leiopisma moco</i>	7	7	1.93 ± 0.03	0.1 – 4.7
<i>Leiopisma nigriplantare nigriplantare</i>	2	1	0.28 ± 0.18	0.3
<i>Leiopisma nigriplantare maccanni</i>	82	66	13.31 ± 0.94	0 – 21.3
<i>Leiopisma otagense</i> form otagense	4	2	3.93 ± 0.66	0 – 6.0
<i>Leiopisma otagense</i> form waimatense	4	4	7.37 ± 0.89	0 – 11.0
<i>Leiopisma smithi</i>	19	19	2.63 ± 0.32	0 – 7.1
<i>Leiopisma striatum</i>	2	2	0.42 ± 0.24	0.4
<i>Leiopisma suteri</i>	15	13	0.12 ± 0.07	0 – 0.4
<i>Leiopisma zelandicum</i>	4	4	1.22 ± 0.33	0.6- 1.9
<i>Leiopisma lichenigerum</i>	2	1	0.14 ± 0.13	0.1

#### **New Discoveries**

*Oligosoma pikitanga* (SVS1)

*Oligosoma taumakae* (OBI2-3)

*Oligosoma tekakahu* (TEK1)

*Oligosoma* aff. *infrapunctatum* ‘Chesterfield’ (OIF3-4, 13, 37-38)

*Oligosoma* aff *longipes* ‘Rangitata’ (RAN1-2)

#### **Suspected New Species- Not Validated**

*Oligosoma* aff *inconspicuum* ‘Big Bay’ (BBS1-7,9-11, 14-15)

*Oligosoma* aff *inconspicuum* ‘Barn Bay’ (BBS17)

*Oligosoma* aff *inconspicuum* ‘Cascade Plateau’

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(BBS18-20)

*Oligosoma* aff *infrapunctatum* 'Paparoa' (PAP1)

*Oligosoma* aff *infrapunctatum* 'Denniston' (OIF5)

*Oligosoma* aff *maccanni* 'Garston' (OMA3-4)

*Oligosoma* aff *polychroma* 'Seaward Moss' (ONP4)

*Oligosoma* aff *polychroma* 'Grey Valley' (GVS1-8)

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