**Appendix 1.** Specimens examined. Museum codes are as follow: MNHNCL (Museo Nacional de Historia Natural, Chile), MRC (Museo Regional de Concepción), MZUC (Museo de Zoología of Universidad de Concepción) and SSUC (Colección de Flora y Fauna Patricio Sánchez Reyes, Pontificia Universidad Católica de Chile)

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| *Liolaemus antonietae* (*n* = 11)*.* SSUC Re 696-99, MZUC 28249, 28251, 28254 and 28569, 38086 and 38090. Termas de Chillán, Biobío Region, Chile. SSUC Re 700. Laguna del Huemul, Shangrila, Biobío Region, Chile.  *Liolaemus antumalguen* (*n* = 3). SSUC Re 763-65. Eight Km NW from Tromen Volcano, Neuquén Province, Argentina.  *Liolaemus carlosgarini* (*n* = 17): MNHN-CL 4561-67, SSUC Re 181-189, 349. Road to Maule Laggon, Maule Region, Chile.  *Liolaemus chillanensis* (*n* = 15). MZUC 38087, 38089, 38091; MZUC 28257-59; MZUC 28263 (previously identified as *L. monticola* ssp.); MZUC 28280 and 28284 (previously identified as *L. cristiani*),SSUC Re 690, 707-09. Termas de Chillán, Biobío Region, Chile. SSUC Re 710-11. Near to Aguas Calientes, Biobío Region, Chile.  *Liolaemus cristiani* (*n* = 2). MNHNCL 4174, SSUC Re 537. El Peine, Maule Region, Chile.  *Liolaemus curis* (*n* = 4). SSUC Re 166-68, 495. Termas del Flaco, O`Higgins Region, Chile.  *Liolaemus elongatus* (*n* = 6). SSUC Re 545-46, 618-21. Eight km east of the summit of the Llaima Volcano, Araucanía Region, Chile.  *Liolaemus leopardinus* (*n* = 10). MNHNCL 3437-3439. El Colorado, Metropolitan Region, Chile. MNHNCL 4025, 4027-28, SSUC Re 364-67. Farellones, Metropolitan Region, Chile.  *Liolaemus monticola* (*n* = 8). SSUC Re 372-79. Farellones, Metropolitan Region, Chile.  *Liolaemus scorialis* (*n* = 11). SSUC Re SSUC Re 612-17, 680. Seven km NW of the summit of the Antuco Volcano, Biobío Region, Chile. MRC 675, 677, 680, 682. La Mula Lagoon, Biobío Region, Chile.  *Liolaemus* sp. 6 (*n* = 15). FML 7839-40. Caviahue Lagoon, Neuquén Province, Argentina. FML 17709, 17773-81, 22423-25. Copahue Volcano, Neuquén Province, Argentina. |