

Table S1. List of *Megachile* transverse gynandromorphs discussed in the paper. References as in the main text.

Species	N. Sp.	Locality	Reference
<i>M. (Chelostomoides) angularum</i> Cockerell, 1902	2	Piney Valley, California, USA Twain Harte, California, USA	[15]
<i>M. (Ptilosaurus) bertonii</i> Schrottky, 1908	2	Chapada, Brazil	[14]
<i>M. (Pseudocentron) curvipes</i> Smith, 1853	1	S. Geronimo, Guatemala	[15]
<i>M. (Eutricharaea) deceptor</i> Pérez, 1890	1	Tarhankut Peninsula, Ukraine	[9]
<i>M. (Eutricharaea) detersa</i> Cockerell, 1911	15	Not reported	[22]
<i>M. (Eutricharaea) gathela</i> Cameron, 1908	1	Kangra, India	[28]
<i>M. (Xanthosaurus) gemula</i> Cresson, 1878	1	Bryson City, North Carolina, USA	[14]
<i>M. (Leptorachis) intergradus</i> Mitchell, 1929	2	Pedra Branca, Brazil Chapada, Brazil	[14]
<i>M. (Eutricharaea) cf. leachella</i> Curtis, 1828	1	Andritsaina, Greece	[68]
<i>M. (Xanthosaurus) maritima</i> (Kirby, 1802)	1	Berskow, Germany	[26]
<i>M. (Austromegachile) montezuma</i> Cresson, 1878	1	São Carlos, Brazil	[27]
<i>M. (Litomegachile) onobrychidis</i> Cockerell, 1914	1	Lompoc, California, USA	[14]
<i>M. (Chelostomoides) otomita</i> Cresson, 1878	1	Pujilic, Chiapas, Mexico	[8]
<i>M. (Argyropyle) parallela</i> Smith, 1853	1	Lane Co, Kansas, USA	[14]
<i>M. (Argyropyle) parallela</i> Smith, 1853	1	Twain Harte, California, USA	[15]
<i>M. (Xanthosaurus) perihirta</i> Cockerell, 1898	1	Mt. Hood, Oregon, USA	[14]
<i>M. (Eutricharaea) picicornis</i> Morawitz, 1853	6	Karadag, Crimea, Ukraine Opuk, Crimea, Ukraine	[9]
<i>M. (Eutricharaea) pilidens</i> Alfken, 1924	6	Berici Hills, Italy	Here
<i>M. (Eutricharaea) pilidens</i> Alfken, 1924	1	Platania Volos, Greece	[23]
<i>M. (Pseudocentron) rubricata</i> Smith 1853	5	Minas Gerais, Santana do Riacho, Brazil	[29]
<i>M. (Chrysosaurus) tapytensis</i> Mitchell, 1929	1	Tapyta, Paraguay	[14]
<i>M. (Neochelynia) uniformis</i> Mitchell, 1929	1	Chapada, Brazil	[14]
<i>M. (Xanthosaurus) vidua</i> Smith, 1853	2	Bilby, Alberta, Canada Lethbridge, Alberta, Canada	[14]
<i>M. (Xanthosaurus) vidua</i> Smith, 1853	1	Nordeg, Alberta, Canada	[15]
<i>Megachile sp.</i>	1	Chapada, Brazil	[14]