

Table S1. List of Scorpion species of Iran. Asterisk indicates endemic species.

Family	Genus	Species/Subspecies
Family Buthidae C. L. Koch, 1837	<i>Androctonus</i> Hemprich and Ehrenberg, 1828	<i>Androctonus baluchicus</i> (Pocock, 1900)
		<i>Androctonus crassicauda</i> (Olivier, 1807)
		<i>Androctonus finitimus</i> (Pocock, 1897)
		<i>Androctonus robustus</i> Kovařík & Ahmed, 2013
	<i>Anomalobuthus</i> Kraepelin, 1900	* <i>Anomalobuthus talebii</i> Teruel, Kovařík, Navidpour and Fet, 2014
	<i>Apistobuthus</i> Finnegan, 1932	* <i>Apistobuthus susanae</i> Lourenço, 1998
	<i>Buthacus</i> Birula, 1908	<i>Buthacus macrocentrus</i> (Ehrenberg, 1828)
	<i>Compsobuthus</i> Vachon, 1949	* <i>Compsobuthus garyi</i> Lourenço and Vachon, 2001
		<i>Compsobuthus jakesi</i> Kovařík, 2003
		* <i>Compsobuthus kaftani</i> Kovařík, 2003
		<i>Compsobuthus matthiesseni</i> (Birula, 1905)
		* <i>Compsobuthus persicus</i> Navidpour, Soleglad, Fet and Kovařík, 2008
		* <i>Compsobuthus petrioli</i> Vignoli, 2005
		* <i>Compsobuthus plutenkoi</i> Kovařík, 2003
		<i>Compsobuthus rugosulus</i> (Pocock, 1900)
	<i>Hottentotta</i> Birula, 1908	<i>Hottentotta jayakari jayakari</i> (Pocock, 1895)
		* <i>Hottentotta juliae</i> Kovařík, Yağmur and Fet, 2019
		* <i>Hottentotta khoozestanus</i> Navidpour, Kovařík, Soleglad and Fet, 2008
		* <i>Hottentotta lorestanus</i> Navidpour, Nayebzadeh, Soleglad, Fet, Kovařík and Kayedi, 2010
		* <i>Hottentotta navidpouri</i> Kovařík, Yağmur and Moradi, 2018
		<i>Hottentotta saulcyi</i> (Simon, 1880)
		* <i>Hottentotta schach</i> (Birula, 1905)
		* <i>Hottentotta sistanensis</i> Kovařík, Yağmur and Moradi, 2018
		* <i>Hottentotta zagrosensis</i> Kovařík, 1997
	<i>Iranobuthus</i> Kovařík, 1997	* <i>Iranobuthus krali</i> Kovařík, 1997
	<i>Kraepelinia</i> Vachon, 1974	<i>Kraepelinia palpator</i> (Birula, 1903)
	<i>Liobuthus</i> Birula, 1898	<i>Liobuthus kessleri</i> Birula, 1898
<i>Mesobuthus</i> Vachon, 1950	* <i>Mesobuthus agnetis</i> (Werner, 1936)	
	* <i>Mesobuthus brutus</i> Fet, Kovařík, Gantenbein, Kaiser, Stewart and Graham, 2018	
	<i>Mesobuthus caucasicus</i> (Nordmann, 1840)	
	<i>Mesobuthus eupeus afghanus</i> (Pocock, 1889)	
	<i>Mesobuthus eupeus eupeus</i> (C. L. Koch, 1839)	
	* <i>Mesobuthus eupeus iranus</i> (Birula, 1917)	

		* <i>Mesobuthus eupeus mesopotamicus</i> (Penther, 1912)
		<i>Mesobuthus eupeus pachysoma</i> (Birula, 1900)
		<i>Mesobuthus eupeus persicus</i> (Pocock, 1899)
		<i>Mesobuthus eupeus philippovitschi</i> (Birula, 1905)
		<i>Mesobuthus eupeus thersites</i> (C. L. Koch, 1839)
		<i>Mesobuthus macmahoni</i> (Pocock, 1900)
		<i>Mesobuthus parthorum</i> (Pocock, 1889)
		<i>Mesobuthus phillipsi kirmanensis</i> (Birula, 1900)
		<i>Mesobuthus phillipsi phillipsi</i> (Pocock, 1889)
		* <i>Mesobuthus vesiculatus</i> (Pocock, 1899)
	Odontobuthus Vachon, 1950	<i>Odontobuthus bidentatus</i> Lourenço and Pézier, 2002
		* <i>Odontobuthus doriae</i> (Thorell, 1876)
		<i>Odontobuthus odonturus</i> (Pocock, 1897)
		* <i>Odontobuthus tavighiae</i> Navidpour, Soleglad, Fet and Kovařík, 2013
		* <i>Odontobuthus tirgari</i> Mirshamsi, Azghadi, Navidpour, Aliabadian and Kovarik, 2013
	Orthochirus Karsch, 1891	* <i>Orthochirus carinatus</i> Navidpour, Kovařík, Soleglad and Fet, 2019
		* <i>Orthochirus farzanpayi</i> (Vachon and Farzanpay, 1987)
		<i>Orthochirus fuscipes</i> (Pocock, 1900)
		* <i>Orthochirus gantenbeini</i> Kovařík, Yağmur, Fet and Hussen, 2019
		<i>Orthochirus glabrifrons</i> (Kraepelin, 1903)
		* <i>Orthochirus gruberi</i> Kovařík and Fet, 2006
		* <i>Orthochirus iranus</i> Kovařík, 2004
		<i>Orthochirus mesopotamicus</i> (Birula, 1918)
		* <i>Orthochirus navidpouri</i> Kovařík, Yağmur, Fet and Hussen, 2019
		* <i>Orthochirus scrobiculosus dentatus</i> (Birula, 1900)
		<i>Orthochirus scrobiculosus melanurus</i> Levy and Amitai, 1980
		<i>Orthochirus scrobiculosus persa</i> (Birula, 1900)
		* <i>Orthochirus stockwelli</i> (Lourenço and Vachon, 1995)
		* <i>Orthochirus varius</i> Kovařík, 2004
		* <i>Orthochirus zagrosensis</i> Kovařík, 2004
	<i>Polisius</i> Fet, Capes and Sissom, 2001	* <i>Polisius persicus</i> Fet, Capes and Sissom, 2001

	<i>Razianus</i> Farzanpay, 1987	* <i>Razianus zarudnyi</i> (Birula, 1903)
	<i>Sassanidotus</i> Farzanpay, 1987	* <i>Sassanidotus gracilis</i> (Birula, 1900) * <i>Sassanidotus zarudnyi</i> (Birula, 1903)
	<i>Vachoniolus</i> Levy, Amitai and Shulov, 1973	* <i>Vachoniolus iranus</i> Navidpour, Kovařík, Soleglad and Fet, 2008
Family Scorpionidae Latreille, 1802	<i>Scorpio</i> Linnaeus, 1758	<i>Scorpio maurus kruglovi</i> Birula, 1910 <i>Scorpio maurus townsendi</i> (Pocock, 1900)
Family Hemiscorpiidae Pocock, 1893	<i>Hemiscorpius</i> Peters, 1861	* <i>Hemiscorpius acanthocercus</i> Monod and Lourenço, 2005 * <i>Hemiscorpius enischnochela</i> Monod and Lourenço, 2005 * <i>Hemiscorpius gaillardi</i> (Vachon, 1974) * <i>Hemiscorpius kashkayi</i> Karatas and Mouradi-Gharkheloo, 2013 <i>Hemiscorpius lepturus</i> Peters, 1861 * <i>Hemiscorpius persicus</i> Birula, 1903 * <i>Hemiscorpius shahii</i> Kovarik, Navidpour and Soleglad, 2017
Family Diplocentridae Karsch, 1880	<i>Nebo</i> Simon, 1878	* <i>Nebo henjamicus</i> Francke, 1980

Table S2. Number and percentage of scorpions in Iran.

Family	Number of genera	Percentage of genera	Number of species/subspecies	Percentage of species/subspecies
Buthidae	16	84.2	68	87.17
Hemiscorpiidae	1	1.8	7	8.97
Scorpionidae	1	1.8	2	2.56
Diplocentridae	1	1.8	1	1.28