

Table S1. Goji berries germplasm resources of all the continents

Species	Dispersal regions		Usage	References
	Continents	Countries		
<i>L. barbarum</i> L.	North, South Americas, Europe, Asia	USA, Peru, Austria, China	food and medicine	[1,2,3,4]
<i>L. chinense</i> Mill.	North America, Europe, Asia	USA, Austria, China, North Korea	food and medicine	[5,6]
<i>L. ruthenicum</i> Murray	Central America, Europe, Asia	Mexico, Georgia, Russia, Afghanistan, India, China, Pakistan, Iran, Turkmenistan	food and medicine	[1,7]
<i>L. arenicolum</i> Miers	North America	United States		[1]
<i>L. americanum</i> Jacq.	North, South Americas	Costa Rica, Cuba, Bahamas, Dominican, Haiti, Argentina, Peru, Ecuador, Columbia, Bolivia, Venezuela, Paraguay, Islasde Barlovento	food	[8]
<i>L. andersonii</i> A. Gray	North, Central Americas	USA, Mexico	food	[9]
<i>L. andersonii</i> var. <i>deserticola</i> (C. L. Hitchc.) Jeps.		USA, Mexico	medicine	[10]
<i>L. berberoides</i> Correll		USA	medicine	[1]
<i>L. berlandieri</i> Dunal		USA, Mexico, Germany	food and medicine	[11]
<i>L. berlandieri</i> var. <i>parviflorum</i> (A. Gray) A. Terracc.		USA, Mexico	food and medicine	[10]
<i>L. brevipes</i> Benth.		USA, Mexico		[1]
<i>L. californicum</i> A. Gray		USA, Mexico		[12]
<i>L. cooperi</i> A. Gray		USA, Mexico		[13]
<i>L. martii</i> Sendtn.	North, South Americas	Cuba, Brazil		[1]
<i>L. exsertum</i> A. Gray	North, Central Americas	USA, Mexico	food	[13]
<i>L. ferocissimum</i> Miers	North America, Africa, Europe, Oceania	USA, Lesotho, Morocco, Namibia, Tunisia, New Zealand, Spain, Norfolk Island, Australia	food and medicine	[14,15,16]
<i>L. fremontii</i> A. Gray	North, Central	USA, Mexico	food	[12]

<i>L. hassei</i> Greene	Americas	USA	medicine	[1]
<i>L. macrodon</i> A. Gray		USA, Mexico	food	[1]
<i>L. oxycarpum</i> Dunal		USA	medicine	[1]
<i>L. pallidum</i> Miers		USA, Mexico	food and medicine	[17]
<i>L. parishii</i> A. Gray		USA, Mexico	food	[18]
<i>L. puberulum</i> A. Gray		USA, Mexico		[1]
<i>L. pubitubum</i> C. L. Hitchc.		USA, Mexico		[1]
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<i>L. repens</i> Speng.	North, South Americas	USA, Argentina		[1]
<i>L. richii</i> A. Gray	North, Central Americas	USA, Mexico	food	[10]
<i>L. shockleyi</i> A. Gray		USA, Mexico		[1]
<i>L. texanum</i> Correll		USA, Mexico		[1]
<i>L. torreyi</i> A. Gray		USA, Mexico	food and medicine	[13]
<i>L. verrucosum</i> Eastw.		USA		[19]
<i>L. carolinianum</i> Walter (Moc. & Sessé ex Dunal) C. L. Hitchc		Cuba, West Indies, Mexico, Easter Island	food	[8,12,20]
<i>L. carinatum</i> S. Watson		USA, Mexico	medicine	[1]
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<i>L. infaustum</i> Miers	North, South Americas, Europe, Asia	Caicos Islands, Dominican, Argentina, Bolivia, Ecuador, Colombia, Paraguay, Peru, Portugal, Türkiye		[1]
<i>L. tweedianum</i> Griseb.	North, South Americas	Caicos Islands, Cuba, Bahamas, Dominican, Virgin Island, Colombia, Ecuador, Paraguay	food	[21]
<i>L. densifolium</i> Wiggins	Central, South Americas	Mexico	medicine	[1]
<i>L. dispernum</i> Wiggins		Mexico		[1]
<i>L. isthmense</i> F. Chiang		Mexico		[1]
<i>L. leiostemum</i> Wedd.		Mexico, Chile, Peru		[1]
<i>L. megacarpum</i> Wiggins		Mexico		[1]
<i>L. nodosum</i> Miers		Mexico, Argentina, Bolivia, Ecuador, Peru, Venezuela, Paraguay		[1]
<i>L. parishii</i> var. <i>modestum</i> (I.M. Johnst.) F. Chiang		Mexico	food and medicine	[1]

<i>L. ameghinoi</i> Speg.		Argentina			[1]
<i>L. athium</i> Bernardello		Argentina		medicine	[1]
<i>L. cestroides</i> Schltdl.	South America, Europe, Oceania	Argentina, Brazil, Bolivia, Germany, UK, Australia	Uruguay,	medicine	[1]
<i>L. chanar</i> Phil.	Central America	Argentina, Bolivia, Chile			[22,23]
<i>L. chilense</i> Bertero	South Americas, Europe	Argentina, Bolivia, Chile, Ecuador, Paraguay, Switzerland, UK	Brazil, France,	medicine	[24]
<i>L. ciliatum</i> Schltdl.	South America	Argentina, Bolivia, Brazil		medicine	[25]
<i>L. cuneatum</i> Dammer	South America	Argentina, Bolivia, Paraguay			[1]
<i>L. cyathiformum</i> C.L. Hitchc.		Argentina, Bolivia			[1,26]
<i>L. elongatum</i> Miers		Argentina		medicine	[27]
<i>L. fuscum</i> Miers		Argentina			[28]
<i>L. gilliesianum</i> Miers		Argentina, Chile			[1]
<i>L. glomeratum</i> Sendtn.	South America, Asia	Argentina, Bolivia, Brazil, Paraguay, China			[1]
<i>L. humile</i> Phil.	South America	Argentina, Chile			[1]
<i>L. minutifolium</i> Remy		Argentina, Chile			[1]
<i>L. morongii</i> Britton		Argentina, Bolivia, Paraguay			[1]
<i>L. schreiteri</i> F. A. Barkley		Argentina			[1]
<i>L. stenophyllum</i> J. Rémy		Argentina, Chile, Peru			[1]
<i>L. tenuispinosum</i> S.B. Jones & W.Z. Faust		Argentina, Chile, Paraguay			[1]
<i>L. tenuispinosum</i> var. <i>friesii</i> (Dammer) C.H. Hitchc.		Argentina			[1]
<i>L. vimineum</i> Miers		Argentina, Uruguay			[24]
<i>L. distichum</i> Meyen		Bolivia, Chile, Peru			[29]
<i>L. divaricatum</i> Rusby		Bolivia, Peru			[1]
<i>L. deserti</i> Phil.		Chile			[30]
<i>L. rachidocladum</i> Dunal		Chile			[1]
<i>L. sandwicense</i> A. Gray	South America, Asia	Easter Island, Chile, Ogasawara Island	food		[31,32]

<i>L. minimum</i> C.L. Hitchc.	South America	Ecuador		[1]
<i>L. europaeum</i> L.	Africa, Europe, Asia	Algeria, Tunisia, France, Portugal, Spain, India, Palestine	food and medicine	[33,34,35]
<i>L. intricatum</i> Boiss	Africa, Europe, Asia	Algeria, Mauritania, Morocco, Tunisia, Italy, Portugal, Spain, Saudi Arabia	medicine	[36,37]
<i>L. schweinfurthii</i> Dammer	Africa, Europe, Asia	Algeria, Mauritania, Morocco, Tunisia, Cyprus, Greece, Portugal, Spain, Palestine	medicine	[38,39,40]
<i>L. bosciifolium</i> Schinz	Africa	Angola, Botswana, Namibia, Zimbabwe	food	[41]
<i>L. decumbens</i> Welw. ex Hiern		Angola, Namibia		[42]
<i>L. horridum</i> Thunb.	Africa, Asia	Angola, Botswana, Lesotho, Madagascar, Mauritius, Namibia, Iran, Türkiye		[1]
<i>L. oxycarpum</i> Dunal	Africa, North America	Angola, Namibia, USA	medicine	[43,44]
<i>L. tetrandrum</i> Thunb.	Africa	Angola, Namibia	food	[45]
<i>L. arenicolum</i> Miers	Africa, North America	Botswana, Lesotho, USA		[1]
<i>L. cinereum</i> Thunb.	Africa	Botswana, Lesotho, Namibia	food and medicine	[1]
<i>L. hirsutum</i> Dunal		Botswana, Namibia		[1]
<i>L. pilifolium</i> C.H. Wright		Botswana, Namibia		[46]
<i>L. schizocalyx</i> C.H. Wright		Botswana, Mozambique, Namibia		[47]
<i>L. shawii</i> Roem. & Schult.	Africa, Asia	Botswana, Ethiopia, Palestine, Yemen, Saudi Arabia, Oman, Pakistan	food and medicine	[48,49]
<i>L. villosum</i> Schinz	Africa	Botswana, Namibia		[50]
<i>L. acutifolium</i> E. Mey. ex Dunal		Lesotho, Madagascar	food and medicine	[51,52]
<i>L. mascarenense</i> A.M. Venter & A.J. Scott		Madagascar, Mauritius, Mozambique		[1]
<i>L. minutifolium</i> Remy	Africa, South America	Mauritius, Argentina, Chile		[1]
<i>L. amoenum</i> Dammer	Africa	Namibia		[1]
<i>L. eenii</i> S. Moore		Namibia		[1]
<i>L. gariense</i> A. M. Venter		Namibia		[1]
<i>L. grandicalyx</i> Joubert & Venter		Namibia		[1]
<i>L. prunus-spinosa</i> Dunal		Namibia	medicine	[47]
<i>L. pumilum</i>		Namibia		[1]

Dammer <i>L. afrum</i> L.	Africa, Europe, Asia	Tunisia, Netherlands, France, Sweden, Cairo	Germany,	food and medicine	[52]
<i>L. petraeum</i> Feinbrun	Europe	Italy			[1]
<i>L. depressum</i> Stocks	Europe, Asia	Russia, Pakistan, Afghanistan, Palestine, Turkmenistan	Iran, Iraq, Türkiye,	medicine	[53,54]
<i>L. chinense</i> var. <i>potaninii</i> (Pojark.) A. M. Lu	East Asia	China		medicine	[1]
<i>L. cylindricum</i> Kuang & A. M. Lu		China			[54]
<i>L. dasystemum</i> Pojark.		China, Iran		food and medicine	[55,56]
<i>L. truncatum</i> Y.C. Wang		China		medicine	[1]
<i>L. yunnanense</i> Kuang & A.M. Lu		China			[57]
<i>L. edgeworthii</i> Miers	South Asia	India, Iran, Pakistan			[1]
<i>L. makranicum</i> Schonebeck- Temesy		Pakistan		Medicine	[1]
<i>L. anatolicum</i> A. Baytop & R. R. Mill	Asia	Turkey			[1]
<i>L. australe</i> F. Muell	Oceania	Australia		food	[58]

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