	Year	Stated Yacon Source	Component(s) Under Study	Study Design		
Author(s)				Method	In Vivo (Human Study or Animal Model)	- Physiological Effect(s)
Cocato et al. [10]	2019	Yacon root flour	FOS*		Rats (Wistar)	Improved mineral absorption
Machado et al. [19]	2019	Yacon root flour	FOS		Human (BMI $30 \pm 2.4 \text{ kg m}^{-2}$)	Improved body composition
dos Santos et al. [65]	2018	Yacon leaf extract			Rats (Wistar)	Significant reduction in glycemia
Gomes da Silva et al. [20]	2017	Yacon syrup			Human	Improved satiety effects
dos Santos et al. [12]	2017	Yacon leaf extract			Rats (Wistar, diabetic)	Improved glycemic control
An et al. [89]	2016	Yacon root extract	Inulin		Mice (Kuming); Rats (Sprague Dawley)	Antidepressant-like effects
Baroni et al. [70]	2016	Yacon leaf extract	Phenolics		Rats (Wistar, diabetic)	Improved insulin sensitivity
da Silva et al. [77]	2015	Yacon root extract	FOS		Rats (Wistar)	Anti-cancer (against colon carcinogenesis on the early phases)
de Ford et al. [13]	2015	Yacon leaf extract		In vitro		Anti-cancer
Habib et al. [79]	2015	Yacon root flour			Rats (Wistar, diabetic)	Antidiabetic effects
Jimenez et al. [93]	2015	Yacon root	FOS		Rats (Wistar)	Improved intestinal microflora
Lee et al. [81]	2015	Yacon extract		In vitro		Anti-cancer (inhibited cell proliferation)
Russo et al. [27]	2015	Yacon leaf extract	Phenolics	In vitro		Antioxidant effects
Sousa et al. [82]	2015	Yacon tuber flour	Phenolics	In vitro		Antioxidant effects
Sugahara et al. [94]	2015	Yacon leaf extract	Phenolics	In vitro		Antioxidant effects
Scheid et al. [16]	2014	Yacon root powder	FOS		Human (>60 years old)	Diabetes management, no side effects observed
Vaz-Tostes et al. [15]	2014	Yacon root flour	FOS		Human (ages 2–5 years old)	Improved systemic immunity
Oliverra et al. [75]	2013	Yacon leaf extract		In vitro		Anti-inflammatory
Oliverra et al. [80]	2013	Yacon root extract	Fructan		Rats (induced type 1 diabetic)	Antidiabetic effects
Satoh et al. [95]	2013	Yacon tuber extract			Rats (Zucker fa/fa)	Improved insulin sensitivity
Utami et al. [88]	2013	Yacon tuber powder	FOS		Rats (Sprague Dawley)	Improved intestinal microflora
Velez et al. [42]	2013	Yacon root flour	FOS		Mice (BALB/c)	Regulated intestinal microflora
Campos et al. [39]	2012	Yacon root flour	FOS		Guinea pig	Improved intestinal microflora
Delgado et al. [41]	2012	Yacon root flour	FOS		Mice (BALB/c)	Improved immunity efficiency
de Moura et al. [83]	2012	Yacon root extract	FOS		Rats (Wistar)	Anti-cancer (against colon carcinogenesis on the early phases)
Roselino et al. [87]	2012	Yacon root extract	Fructan		Rats (Wistar)	Improved lipid profiles
Habib et al. [78]	2011	Yacon root flour	FOS		Rats (Wistar)	Antidiabetic and hypolipidemic effects
Lobo et al. [84]	2011	Yacon root flour	Inulin		Rats (Wistar)	Improved mineral absorption
Siriwan et al. [72]	2011	Yacon leaf extract		In vitro		Anti-cancer (inhibited cancer cell proliferation)
Siriwan et al. [73]	2011	Yacon leaf extract		In vitro		Anti-cancer (inhibited cancer cell proliferation)
Bonet et al. [96]	2010	Yacon root flour			Mice (BALB/c)	Improved intestinal microflora (growth of Bifidobacteria and Lactobacilli)
Genta et al. [68]	2010	Yacon leaf extract	Phenolics		Rats (Wistar)	Hypoglycemic effects
Joung et al. [71]	2010	Yacon leaf extract		In vitro		Antimicrobial effects
Raga et al. [69]	2010	Yacon leaf extract	Phenolics		Mice (albino)	Hypoglycemic effects
Yun et al. [92]	2010	Yacon root ingestion			Human (a 55-years-old woman)	Anaphylaxis ¹
Genta et al. [17]	2009	Yacon syrup			Human (obese with mild dyslipidemia)	Improve insulin-resistance, and satiety effects
Park et al. [11]	2009	Yacon tuber extract			Rats (Sprague Dawley, diabetic)	Improved glycemic control
Baroni et al. [67]	2008	Yacon leaf extract	Phenolics		Rats (Wistar)	Hypoglycemic effects
Geyer et al. [97]	2008	Yacon syrup	FOS		Human	Improved the colonic transit
Lobo et al. [85]	2007	Yacon root flour			Rats (Wistar)	Improved mineral absorption
Genta et al. [90]	2005	Yacon root flour	FOS		Rats (Wistar)	No adverse side effects observed ²
Valentova et al. [66]	2004	Yacon leaf extract			Rats (diabetic)	Anti-hyperglycemic effects

Table 1. Summary of studies on yacon (Smallanthus sonchifolius) in vitro and in vivo in human or animal models.

* FOS: fructooligosaccharides. ¹ A reported case of adverse side effects. ² Toxicity study.