



## Digital supplementary material to

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Species name	Subfamily	Adult-to-adult	Adult-to-larva and larva-to-adult	References
<i>Acanthomyrmex ferox</i>	Myrmicinae	Stomodeal trophallaxis	Trophic eggs are laid by the queen, majors and minors, and consumed by nestmates and larvae.	(Gobin & Ito 2000)
<i>Acanthomyrmex notabilis</i>	Myrmicinae	Stomodeal trophallaxis between workers	Larvae fed by minor workers via stomodeal trophallaxis	(Moffett 1985)
<i>Acromyrmex balzani</i>	Myrmicinae	Stomodeal trophallaxis between workers	Proctodeal trophallaxis: Workers drink from larval anal droplets	(Lopes & al. 2005) (Moreira & al. 2007)
<i>Acromyrmex crassispinus</i>	Myrmicinae	No stomodeal trophallaxis observed	Proctodeal trophallaxis: Workers drink from larval anal droplets	(Lopes & al. 2005) (Lopes & al. 2017)
<i>Acromyrmex echinatior</i>	Myrmicinae		Trophic eggs mostly laid by majors	(Dijkstra & al. 2005)
				(Dijkstra & al. 2005) (Richard & Errard 2009) (Malato & al. 1977) (Quinlan & Cherrett 1978)
<i>Acromyrmex octospinosus</i>	Myrmicinae	Stomodeal trophallaxis Queens regurgitate fungus pellets.	Trophic eggs mostly laid by majors	(Moreira & al. 2007)
<i>Acromyrmex rugosus</i>	Myrmicinae	Debated	Proctodeal trophallaxis: Workers drink from larval anal droplets	(Moreira & al. 2007) (Lopes & al. 2005)
<i>Acromyrmex sp</i>	Myrmicinae	Stomodeal trophallaxis between workers		(Moreira & al. 2007)
				(Camargo & al. 2006) ( <i>Acromyrmex subterraneus brunneus</i> ) (Moreira & al. 2010) ( <i>Acromyrmex subterraneus subterraneus</i> ) (Moreira & al. 2006) ( <i>Acromyrmex subterraneus subterraneus</i> ) (Richard & Errard 2009) ( <i>Acromyrmex subterraneus</i> )
<i>Acromyrmex subterraneus</i>	Myrmicinae	Stomodeal trophallaxis	Adult -> larvae stomodeal trophallaxis never observed	(Haskins & Haskins 1951a)
<i>Amblyopone australis</i>	Amblyoponinae	Never observed		
<i>Aneuretus simoni</i>	Aneuretinae	Stomodeal trophallaxis between adults		(Traniello & Jayasuriya 1985)
<i>Anochetus kempfi</i>	Ponerinae	Stomodeal trophallaxis rare but observed between workers, and between workers and queen	Larvae fed by stomodeal trophallaxis rare but observed	(Torres & al. 2000)
<i>Anoplolepis gracilipes</i>	Formicinae	Trophallaxis from adults to queen, and between adults	Trophic eggs fed to worker larvae, sexual larvae, workers and sexuals.	(Parmentier 2020) (Lee & al. 2017) (Hoffmann 2014)
<i>Aphaenogaster rudis</i>	Myrmicinae		Adult -> larvae trophallaxis never observed. Larvae fed with trophic eggs.	(Epps & Penick 2018)
<i>Aphaenogaster senilis</i>	Myrmicinae	Tool-mediated pseudotrophallaxis Never observed		(Lenoir & al. 2001, Lörinczi 2014, Maák & al. 2017)
<i>Aphaenogaster subterranea</i>	Myrmicinae	Tool-mediated pseudotrophallaxis never observed	Larvae fed by trophallaxis	(Le Masne 1953, Lörinczi 2014, Maák & al. 2017)
<i>Aphaenogaster testaceocephala</i>	Myrmicinae		Larvae fed via stomodeal trophallaxis Larvae regurgitate fluid	(Le Masne 1953)
<i>Atopomyrmex mocquerysi</i>	Myrmicinae	Stomodeal trophallaxis between workers		<a href="https://www.alexanderwild.com/Ants/Taxonomic-List-of-Ant-Genera/Atopomyrmex/I-67CV32P">https://www.alexanderwild.com/Ants/Taxonomic-List-of-Ant-Genera/Atopomyrmex/I-67CV32P</a>
<i>Atta cephalotes</i>	Myrmicinae		Trophic eggs laid by workers and fed to queen and larvae. Adult-larvae stomodeal trophallaxis never observed	(Quinlan & Cherrett 1979, Dijkstra & al. 2005)
<i>Atta laevigata</i>	Myrmicinae	Stomodeal trophallaxis between workers		(Moreira & al. 2007)
			Trophic eggs laid by workers and fed to queen and larvae.	
<i>Atta sexdens</i>	Myrmicinae	No stomodeal trophallaxis observed between adults	Proctodeal trophallaxis. Workers drink from larval anal droplets	(Schneider 2000, Dijkstra & al. 2005, Moreira & al. 2007) ( <i>Atta sexdens rubropilosa</i> )
<i>Atta texana</i>	Myrmicinae	Stomodeal trophallaxis		(Echols 1966)
<i>Basiceros manni</i>	Myrmicinae	No stomodeal trophallaxis observed		(Hölldobler & Wilson 1986)
<i>Blepharidatta conops</i>	Myrmicinae		Adults feed larvae via stomodeal trophallaxis	(Diniz & al. 1998, Brandão & al. 2001, Pereira & al. 2014)
<i>Bothropponera soror</i>	Ponerinae		Queens did not feed larvae via trophallaxis	(Haskins 1941)
<i>Brachymyrmex obscurior</i>	Formicinae		Workers feed larvae by stomodeal trophallaxis	(Cassill & Tschinkel 1996)
<i>Brachymyrmex patagonicus</i>	Formicinae	Stomodeal trophallaxis		(Keefer 2016)
<i>Brachyponera chinensis</i>	Ponerinae	Stomodeal trophallaxis		(Masuko 1986a)
<i>Brachyponera lutea</i>	Ponerinae		Queens can feed larvae by stomodeal trophallaxis	(Haskins & Haskins 1950)
			Larval hemolymph feeding by punctures Workers drink larval secretions via proctodeal trophallaxis.	
<i>Calyptomyrmex sp.</i>	Formicinae	Stomodeal trophallaxis between workers and queen	Queen fed on eggs laid by workers	(Ito 2001)
<i>Camponotus crenatus</i>	Formicinae	Stomodeal trophallaxis		(Bles & al. 2018)
<i>Camponotus fellah</i>	Formicinae	Stomodeal trophallaxis between adults		(Boulay & al. 2000, Boulay & Lenoir 2001, Boulay & al. 2004)
<i>Camponotus floridanus</i>	Formicinae	Worker-worker stomodeal trophallaxis	Workers feed larvae by stomodeal trophallaxis	(LeBoeuf & al. 2016)
<i>camponotus herculeanus</i>	Formicinae	Stomodeal trophallaxis		(Ayre 1963)
<i>Camponotus ligniperdus pictus</i>	Formicinae	Stomodeal trophallaxis		(Bos & al. 2019) ( <i>Camponotus ligniperdus</i> )
<i>Camponotus mus</i>	Formicinae	Stomodeal trophallaxis		(Mc Cabe & al. 2006, Joses & al. 2016)
<i>Camponotus pennsylvanicus</i>	Formicinae	Stomodeal trophallaxis		(Hamilton & al. 2011)
<i>Camponotus sanctus</i>	Formicinae	Stomodeal trophallaxis		Greenwald et al., 2019
			Proctodeal trophallaxis. Workers drink anal secretion from the queen.	
<i>Camponotus senex</i>	Formicinae			(Santos & al. 2005)
<i>Camponotus vagus</i>	Formicinae	Stomodeal trophallaxis		(Cassill & Tschinkel 1996, Gallè & al. 2014)
<i>Camponotus yamaokai</i>	Formicinae	Stomodeal trophallaxis		(Sanada & al. 1997, Sanada & al. 1998)
<i>Cardiocondyla emeryi</i>	Myrmicinae		Larvae fed by stomodeal trophallaxis by workers	(Creighton & Snelling 1974) ( <i>Cardiocondyla ectopia</i> )
<i>Cardiocondyla mauritanica</i>	Myrmicinae		Larvae fed by stomodeal trophallaxis by workers	(Creighton & Snelling 1974)
<i>Cardiocondyla nuda</i>	Myrmicinae		Larvae fed by stomodeal trophallaxis by workers	(Creighton & Snelling 1974)
<i>Cardiocondyla obscurior</i>	Myrmicinae	Stomodeal trophallaxis between workers and queen	Larvae fed by stomodeal trophallaxis by workers	(Schrempf & Heinze 2006, Schrempf & al. 2017)

<i>Carebara overbecki</i>	Myrmicinae	Stomodeal trophallaxis between adults	Adults feed larvae by regurgitation	(Mark W. Moffett 1986b)( <i>Oligomyrmex overbecki</i> )
<i>Carebara perpusilla</i>	Myrmicinae	Adult-adult stomodeal trophallaxis	Adults feed larvae via stomodeal trophallaxis	Khalife and Peeters, 2020 (in press)
<i>Carebara termitolectes</i>	Myrmicinae		Larvae regurgitate liquid that is ingested by adults	(Le Masne 1953)
<i>Cataglyphis iberica</i>	Formicinae	Stomodeal trophallaxis		(Dahbi & al. 1999, Lenoir & al. 2001)
<i>Cataglyphis nigra</i>	Formicinae	Stomodeal trophallaxis		(Lenoir & al. 2001)( <i>Cataglyphis niger</i> )
<i>Cataulacus muticus</i>	Myrmicinae	Stomodeal trophallaxis between workers		(Maschwitz & Moog 2000) <a href="https://www.alexanderwild.com/Ants/Taxonomic-List-of-Ant-Genera/Cephalotes/i-ZPcpGdK">https://www.alexanderwild.com/Ants/Taxonomic-List-of-Ant-Genera/Cephalotes/i-ZPcpGdK</a>
<i>Cephalotes atratus</i>	Myrmicinae	Stomodeal trophallaxis		(d'Avila & al. 2005)
<i>Cephalotes goniodontus</i>	Myrmicinae	Stomodeal trophallaxis		(Gordon 2012)
<i>Cephalotes pusillus</i>	Myrmicinae	Stomodeal trophallaxis		<a href="https://www.alexanderwild.com/Ants/Taxonomic-List-of-Ant-Genera/Cephalotes/i-fmj4Smx">https://www.alexanderwild.com/Ants/Taxonomic-List-of-Ant-Genera/Cephalotes/i-fmj4Smx</a>
<i>Cephalotes rohweri</i>	Myrmicinae	Proctodeal trophallaxis. Newly hatched callows drink anal secretions from older workers.		(Lanan & al. 2016)
<i>Cephalotes varians</i>	Myrmicinae	Proctodeal trophallaxis		(Wilson 1976)( <i>Zacryptocerus varians</i> )
<i>Chelaner whitei</i>	Myrmicinae	Stomodeal trophallaxis between workers Stomodeal trophallaxis between workers and sexuals	Larvae regurgitate food to adults	(Buckley 1982) ( <i>Monomorium armstrongi</i> )
<i>Colobopsis nipponica</i>	Formicinae	Stomodeal trophallaxis between workers		(Hasegawa 1993)
<i>Crematogaster ashmeadi</i>	Myrmicinae	Stomodeal trophallaxis No proctodeal trophallaxis observed	Larvae fed by stomodeal trophallaxis	(Cole 1983)
<i>Crematogaster castanea</i>	Myrmicinae	Stomodeal trophallaxis		(Wild & Brake 2009)( <i>Crematogaster castanea tricolor</i> )
<i>Crematogaster laeviuscula</i>	Myrmicinae		Larvae fed by stomodeal trophallaxis	(Petralia & Vinson 1979)
<i>Crematogaster minutissima</i>	Myrmicinae		Workers rarely feed larvae by stomodeal trophallaxis Larvae fed mostly on eggs.	(Heinze & al. 1995, Cassill & Tschinkel 1996)
<i>Cryptopone gilva</i>	Ponerinae	Stomodeal trophallaxis between adults, rarely		(Haskins 1931)( <i>Euponera gilva</i> )
<i>Cryptopone sauteri</i>	Ponerinae	No stomodeal trophallaxis		(Masuko 1986b)
<i>Cyphomyrmex rimosus</i>	Myrmicinae	Stomodeal trophallaxis between workers.		(Murakami & Higashi 1997)
<i>Daceton armigerum</i>	Myrmicinae	Stomodeal trophallaxis		(Hölldobler & Wilson 2009, p.255)
<i>Diacamma sp.</i>	Ponerinae	Mandibular pseudotrophallaxis Corporal pseudotrophallaxis		(Maschwitz & al. 2000)
<i>Diacamma sp. from Japan</i>	Ponerinae	Stomodeal		(Fujioka & Okada 2019)
<i>Dinomyrmex gigas</i>	Formicinae	Stomodeal trophallaxis between workers		(Pfeiffer & Linsenmair 2007) ( <i>Camponotus gigas</i> )
<i>Dinoponera quadriceps</i>	Ponerinae	No stomodeal trophallaxis	No stomodeal trophallaxis between adults and larvae.	(Nascimento & al. 2013)
<i>Discothyrea sauteri</i>	Proceratiinae	No trophallaxis observed between the workers		(Masuko 1986a)
<i>Dolichoderus attelaboides</i>	Dolichoderinae	Proctodeal trophallaxis between adults		(Cook & Davidson 2006)
<i>Dolichoderus decollatus</i>	Dolichoderinae	Proctodeal trophallaxis between adults		(Cook & Davidson 2006)
<i>Dolichoderus quadripunctatus</i>	Dolichoderinae	Proctodeal trophallaxis. When no brood, queen drinks workers anal secretions		(Torossian 1959)
<i>Dolichoderus thoracicus</i>	Dolichoderinae	Stomodeal trophallaxis		(Lin & al. 2017)
<i>Dorylus laevigatus</i>	Dorylinae	Never observed		(Weissflog & al. 2000)
<i>Ectiton dulcium</i>	Dorylinae	Adult-adult stomodeal trophallaxis		(Rettenmeyer 1963)
<i>Ectiton hamatum</i>	Dorylinae	Workers drink anal droplets produced by the queen.		(Schneirla 1944)
<i>Ectatomma brunneum</i>	Ectatomminae		Mandibular pseudotrophallaxis. Workers feed larvae with infrabuccal droplets	(Locher & al. 2009)
<i>Ectatomma permagnum</i>	Ectatomminae		Mandibular pseudotrophallaxis. Workers feed larvae with infrabuccal droplets	(Brandão & Paiva 1989)
<i>Ectatomma ruidum</i>	Ectatomminae	Mandibular pseudotrophallaxis Never observed	Never observed	(Corbara & al. 2010, Cunningham 2019)
<i>Ectatomma tuberculatum</i>	Ectatomminae	Mandibular pseudotrophallaxis		(Hölldobler 1985)
<i>Eurhopalothrix biroi</i>	Myrmicinae	Rare / absent stomodeal trophallaxis between workers		(Wilson 1956)
<i>Eurhopalothrix heliscata</i>	Myrmicinae	Rare / absent stomodeal trophallaxis between workers		(Hölldobler & Wilson 1985)
<i>Forelius damiani</i>	Dolichoderinae	Stomodeal trophallaxis		<a href="https://www.alexanderwild.com/Ants/Taxonomic-List-of-Ant-Genera/Forelius/i-3GQqK2HIA">https://www.alexanderwild.com/Ants/Taxonomic-List-of-Ant-Genera/Forelius/i-3GQqK2HIA</a>
<i>Forelius pruinosus</i>	Dolichoderinae		Larvae fed by stomodeal trophallaxis	(Petralia & Vinson 1979) ( <i>Iridomyrmex pruinosum</i> )
<i>Formica cinerea</i>	Formicinae	Stomodeal trophallaxis		(Bos & al. 2019)
<i>Formica exsecta</i>	Formicinae	Stomodeal trophallaxis		(Bos & al. 2019)
<i>Formica fusca</i>	Formicinae	Stomodeal trophallaxis		(Bos & al. 2019)
<i>Formica glacialis</i>	Formicinae	Stomodeal trophallaxis		(Barrett & al. 2020)
<i>Formica integra</i>	Formicinae	Stomodeal trophallaxis		(Wilkinson & al. 1978)
<i>Formica japonica</i>	Formicinae	Stomodeal trophallaxis		(Wada-Katsumata & al. 2011)
<i>Formica lugubris</i>	Formicinae	Stomodeal trophallaxis		(Bos & al. 2019)
<i>Formica obscuripes</i>	Formicinae	Stomodeal trophallaxis		(Alpert & Akre 1973)
<i>Formica paralugubris</i>	Formicinae	Stomodeal trophallaxis		(Chapuisat & al. 2005)
<i>Formica polyctena</i>	Formicinae	Stomodeal trophallaxis		(Gösswald & Kloft 1963, Aubert & Richard 2008)
<i>Formica pratensis</i>	Formicinae	Stomodeal trophallaxis		(Bos & al. 2019)
<i>Formica rufa</i>	Formicinae	Stomodeal trophallaxis		(Gösswald & Kloft 1963)
<i>Formica sanguinea</i>	Formicinae	Stomodeal trophallaxis		(Bos & al. 2019)
<i>Formica subintegra</i>	Formicinae	Stomodeal trophallaxis		(Hunter & Mathis 2020)
<i>Formica truncorum</i>	Formicinae	Stomodeal trophallaxis		(Bos & al. 2019)

<i>Formicoxenus provancheri</i>	Myrmicinae	Stomodeal trophallaxis with hosts <i>Myrmica incompleta</i> Stomodeal trophallaxis between workers		(Errard & al. 1997)
<i>Gnamptogenys bicolor</i>	Ectatomminae		Larval hemolymph feeding through cuts in larval cuticle	(Gobin & Ito 2000)
<i>Gnamptogenys cibaria</i>	Ectatomminae		Larval hemolymph feeding through cuts in larval cuticle	(Gobin & Ito 2000)
<i>Gnamptogenys menadensis</i>	Ectatomminae		Trophic eggs fed to larvae Larval hemolymph feeding through cuts in larval cuticle	(Gobin & al. 1998, Gobin & Ito 2000, Gobin et al. 1999)
<i>Gnamptogenys striatula</i>	Ectatomminae	Never observed	No adult -> larva stomodeal trophallaxis	(Passera & Aron 2005)
<i>Harpegnathos saltator</i>	Ponerinae		No adult -> larva stomodeal trophallaxis	(Penick & Liebig 2012)
			Larvae suspected to be fed by stomodeal trophallaxis Collection of larval anal droplets by workers, but no ingestion.	
<i>Hypoponera eduardi</i>	Ponerinae	Somodeal trophallaxis		(Le Masne 1948, Le Masne 1952, Le Masne 1953)(Ponera eduardi)
<i>Hypoponera sp. (JFC 11104)</i>	Ponerinae	Stomodeal trophallaxis between adults		(Hashimoto & al. 1995)
		Rare trophallaxis between queens Worker-worker stomodeal trophallaxis	Workers feed larvae by stomodeal trophallaxis	
<i>Iridomyrmex humilis</i>	Dolichoderinae			(Hölldobler & Carlin 1985, Vargo & Passera 1991, Cassill & Tschinkel 1996)
<i>Lasius brunneus</i>	Formicinae	Stomodeal trophallaxis		(Köhler 2012)
<i>Lasius flavus</i>	Formicinae	Stomodeal trophallaxis		(Bos & al. 2019)
<i>Lasius fuliginosus</i>	Formicinae	Stomodeal trophallaxis between workers		(Hölldobler & Kwapisch 2017)
<i>Lasius neglectus</i>	Formicinae	Autotrophallaxis. Stomodeal trophallaxis		(Konrad & al. 2012, Tragust & al. 2013)
<i>Lasius niger</i>	Formicinae	Stomodeal trophallaxis	Trophic eggs fed to larvae	(Baroni Urbani 1991, Buffin & al. 2011)
<i>Lasius platythorax</i>	Formicinae	Stomodeal trophallaxis		(Bos & al. 2019)
<i>Leptanilla charonea</i>	Leptanillinae		Adults drink haemolymph from larval tubercle	(Barandica & al. 2008)
<i>Leptanilla japonica</i>	Leptanillinae	Absent	Adults drink haemolymph from larval tubercle	(Masuko 1986a)
<i>Leptogenys elongata</i>	Ponerinae		No adult -> larva stomodeal trophallaxis	(Wheeler 1918)
<i>Leptogenys schwabi</i>	Ponerinae	Never observed		(Davies & al. 1994)
<i>Leptomyrmex erythrocephalus</i>	Dolichoderinae	Stomodeal trophallaxis deduced from repletes		(McClennahan & al. 2016)
<i>Leptomyrmex nigriventris</i>	Dolichoderinae		Adults feed larvae via stomodeal trophallaxis	(Wheeler 1915)
		Rare stomodeal trophallaxis between queens		
<i>Leptothorax acervorum</i>	Myrmicinae	Stomodeal trophallaxis between queens and workers	Queens fed by larvae through stomodeal trophallaxis	(Bourke 1991)
<i>Leptothorax muscorum</i>	Myrmicinae	Stomodeal trophallaxis	Workers feed larvae with stomodeal trophallaxis	(Stuart & Bell 1980)
<i>Linepithema humile</i>	Dolichoderinae	Stomodeal trophallaxis		(Sola & Josens 2016)S
<i>Liometopum luctuosum</i>	Dolichoderinae	Queen-queen stomodeal trophallaxis		(Hoey-Chamberlain & al. 2013)
<i>Liometopum occidentale</i>	Dolichoderinae	Stomodeal trophallaxis between adults		(Hoey-Chamberlain 2012)
<i>Manica bradleyi</i>	Myrmicinae		Larvae suspected to regurgitate food to workers	(Went & al. 1972)
<i>Manica hunteri</i>	Myrmicinae		Larvae suspected to regurgitate food to workers	(Went & al. 1972)
<i>Manica rubida</i>	Myrmicinae	Stomodeal trophallaxis		(Dahbi & al. 1999)
<i>Megaponera analis</i>	Ponerinae	Never observed		(Hölldobler & al. 1994)(Megaponera foetens)
		Stomodeal trophallaxis between workers, deduced from the presence of repletes		
<i>Melophorus bagoti</i>	Formicinae			(Conway 1986)
<i>Messor barbarus</i>	Myrmicinae	Never observed	Larvae fed by with prechewed seeds.	(Le Masne 1953, Parmentier & al. 2020)
<i>Messor capitatus</i>	Myrmicinae	No stomodeal trophallaxis		(Urbani 1991)
<i>Messor semirufus</i>	Myrmicinae		Trophic eggs fed to larvae	(Baroni Urbani 1991)
<i>Messor structor</i>	Myrmicinae	No stomodeal trophallaxis		(Urbani 1991)
		Queen drinks from larval buccal and anal secretions. Workers drink from larvae buccal secretions		
<i>Monomorium pharaonis</i>	Myrmicinae	Stomodeal trophallaxis		(Chong & al. 2002)
		Stomodeal trophallaxis between workers	Larvae regurgitate food to adults Proctodeal trophallaxis: workers intensively licked and imbibed anal secretions of the large final-stage larvae	
<i>Monomorium rothsteini</i>	Myrmicinae	Stomodeal trophallaxis between workers and sexuals		(Buckley 1982)
<i>Mycetomoellerius turrifex</i>	Myrmicinae	Adult-adult stomodeal trophallaxis		(Murakami 2020)
<i>Mycetophylax sp.</i>	Myrmicinae	Stomodeal trophallaxis between workers		(Moreira & al. 2007)
<i>Mycocepurus sp.</i>	Myrmicinae	Stomodeal trophallaxis between workers		(Moreira & al. 2007)
			Larval hemolymph feeding through small cuts Queens drink larval hemolymph through small cuts	
<i>Myopopone castanea</i>	Amblyoponinae			(Ito 2010)
<i>Myrmecia brevinoda</i>	Myrmeciinae	Stomodeal trophallaxis		(Crosland & al. 1988)
<i>Myrmecia gulosa</i>	Myrmeciinae	Never observed		(Crosland & al. 1988)
<i>Myrmecia pyriformis</i>	Myrmeciinae	Adult-adult stomodeal trophallaxis		(Reid & al. 2013)Raid et al. 2013
<i>Myrmecia regularis</i>	Myrmeciinae	Stomodeal trophallaxis	Workers feed larvae through stomodeal trophallaxis	(Whelden & Haskins 1954)
<i>Myrmecia simillima</i>	Myrmeciinae	Never observed		(Crosland & al. 1988)
<i>Myrmecia vindex</i>	Myrmeciinae	Never observed	Workers feed larvae through stomodeal trophallaxis	(Whelden & Haskins 1954)
<i>Myrmecina graminicola</i>	Myrmicinae		Workers feed larvae through stomodeal trophallaxis	(Le Masne 1953)

<i>Myrmecina sp. A</i>	Myrmicinae	Ergatoid queens fed only via stomodeal trophallaxis by workers		(Ito 2013)
<i>Myrmecocystus mexicanus</i>	Formicinae	Stomodeal trophallaxis between queens Stomodeal trophallaxis between workers	Larvae are fed trophic eggs Larvae are fed by stomodeal trophallaxis	(Wheeler 1908, Conway 1977, Conway 1980, Conway 1983)
<i>Myrmecocystus mimicus</i>	Formicinae	Stomodeal trophallaxis		(Kronauer & Gadau 2002)Kronauer and Gadau, 2002
<i>Myrmica incompleta</i>	Myrmicinae	Stomodeal trophallaxis		(Errard & al. 1997)
			Trophic eggs laid by workers and queens Larvae fed by stomodeal trophallaxis Larvae regurgitate fluid ingested by adult via stomodeal trophallaxis	
<i>Myrmica rubra</i>	Myrmicinae	Stomodeal trophallaxis		(Lenoir 1982, Wardlaw & Elmes 1995, Passera & Aron 2005)
<i>Myrmica ruginodis</i>	Myrmicinae	Stomodeal trophallaxis	Trophic eggs laid by workers and queens	(Wardlaw & Elmes 1995, Bos & al. 2011)
<i>Myrmica sabuleti</i>	Myrmicinae	Queen drinks via stomodeal trophallaxis from slave workers. Regurgitation to parasite		(Thomas & Wardlaw 1992, Tinaut & al. 2005)
<i>Myrmica schencki</i>	Myrmicinae	No record	Trophic eggs laid by workers and queens	(Wardlaw & Elmes 1995, Bos & al. 2019)
<i>Myrmica sulcinodis</i>	Myrmicinae		Trophic eggs laid by workers and queens	(Wardlaw & Elmes 1995)
<i>Myrmicaria natalensis eumenoides</i>	Myrmicinae	Stomodeal trophallaxis between workers		(Lengyel 2005)(Myrmicaria eumenoides)
<i>Myrmicaria opaciventris</i>	Myrmicinae			(Dejean & al. 1996)
<i>Myrmoteras barbouri</i>	Formicinae	Stomodeal trophallaxis between workers		(M. W. Moffett 1986)
<i>Myrmoteras iriodum</i>	Formicinae	Stomodeal trophallaxis often observed between adults. Queen also fed by trophallaxis by workers.		(Ito & al. 2017)
<i>Myrmoteras jaitrongi</i>	Formicinae	Stomodeal trophallaxis often observed between adults. Queen also fed by trophallaxis by workers.		(Ito & al. 2017)
<i>Myrmoteras toro</i>	Formicinae	Stomodeal trophallaxis between workers		(M. W. Moffett 1986)
<i>Neoponera apicalis</i>	Ponerinae	Mandibular pseudotrophallaxis No stomodeal trophallaxis observed	Trophic eggs given to the queen, virgin queens or callow worker	(Dietermann & Peeters 2000, Soroker & al. 2003)(Pachycondyla apicalis)
<i>Neoponera obscuricornis</i>	Ponerinae	Mandibular pseudotrophallaxis		(Hölldobler 1985)
<i>Neoponera villosa</i>	Ponerinae	Mandibular pseudotrophallaxis		(Hölldobler 1985)
<i>Nesomyrmex echinatinodis</i>	Myrmicinae	Stomodeal trophallaxis between workers		(Stuart & Moffett 1994)
<i>Nesomyrmex spininodis</i>	Myrmicinae	Stomodeal trophallaxis between workers		(Stuart & Moffett 1994)
<i>Nothomyrmecia macrops</i>	Myrmeciinae	No adult -> adult stomodeal trophallaxis	No adult -> larva stomodeal trophallaxis	(Taylor 2014))
<i>Nylanderia fulva</i>	Formicinae	Stomodeal trophallaxis		(Hill 2013)
<i>Ocymyrmex foreli</i>	Ponerinae	Stomodeal trophallaxis between workers and queen Stomodeal trophallaxis between workers		(Forder & Marsh 1986)
<i>Odontomachus affinis</i>	Ponerinae	Stomodeal trophallaxis		(Whelden & Haskins 1954, Dejean & Lachaud 1991)
<i>Odontomachus chelifer</i>	Ponerinae	Mandibular pseudotrophallaxis		(Ávila Núñez & al. 2011)
<i>Odontomachus clarus</i>	Ponerinae		No adult -> larva stomodeal trophallaxis	(Wheeler 1918)
<i>Odontomachus haematoda</i>	Ponerinae	Stomodeal trophallaxis	Queen can feed larvae via stomodeal trophallaxis	(Haskins & Haskins 1950, Whelden & Haskins 1954)
<i>Odontomachus troglodytes</i>	Ponerinae	Mandibular pseudotrophallaxis		(Dejean & Lachaud 1991)
<i>Oecophylla longinoda</i>	Formicinae	Workers feed the queen by stomodeal trophallaxis	Trophic eggs laid by workers and fed to the queen. Workers feed larvae by stomodeal trophallaxis	(Oster & Wilson 1978, Hölldobler & Wilson 1983, Dejean & al. 2016)
<i>Oecophylla smaragdina</i>	Formicinae	Stomodeal trophallaxis	Trophic eggs laid by workers and fed to the queen.	(Hölldobler & Wilson 1983) <a href="https://www.alexanderwild.com/Ants/Taxonomic-List-of-Ant-Genera/Oecophylla/i-dmNpqDB/A">https://www.alexanderwild.com/Ants/Taxonomic-List-of-Ant-Genera/Oecophylla/i-dmNpqDB/A</a>
<i>Ococreaea biroi</i>	Dorylinae		Never observed	(Ulrich & al. 2016)
<i>Ophthalmopone berthoudi</i>	Ponerinae	Never observed		(Peeters & Crewe 1985)Peeters and Crewe, 1985
<i>Orectognathus versicolor</i>	Myrmicinae	Stomodeal trophallaxis between workers Stomodeal trophallaxis between workers and queen	Workers feed larvae through stomodeal trophallaxis	(Carlin 1981)
<i>Pachycondyla harpax</i>	Ponerinae		No adult -> larva stomodeal trophallaxis	(Wheeler 1918)
<i>Paraponera clavata</i>	Paraponerinae	Mandibular pseudotrophallaxis Suspected stomodeal trophallaxis	Trophic eggs laid by first workers and fed to the larvae. Possible trophallaxis from adults to larvae	(Hölldobler 1985, Davidson 1997, Davidson 1998, Peeters 2017)
<i>Paraponera sp.</i>	Paraponerinae		Workers appear to lick larvae and feed from something	(Wheeler & Wheeler 1952)
<i>Paratrechina longicornis</i>	Formicinae	Stomodeal trophallaxis		(Solis & al. 2009)(Dejean & al. 1996)
<i>Pheidole bicarinis</i>	Myrmicinae	Stomodeal trophallaxis	Adults feed larvae by stomodeal trophallaxis	(Fisher & al. 2003)
<i>Pheidole dentata</i>	Myrmicinae	Stomodeal trophallaxis	Workers feed larvae through stomodeal trophallaxis	(Bhatkar & Kloft 1977, Cassill & Tschinkel 1996)
<i>Pheidole megacephala</i>	Myrmicinae	Corporal pseudotrophallaxis Stomodeal trophallaxis		(Dejean & al. 1996, Dejean & al. 2005)
<i>Pheidole morrisii</i>	Myrmicinae	Stomodeal trophallaxis	Workers feed larvae through stomodeal trophallaxis	(Brown & Traniello 1998)
<i>Pheidole pallidula</i>	Myrmicinae		Workers feed larvae through stomodeal trophallaxis	(Le Masne 1953)
<i>Pheidole spadonia</i>	Myrmicinae	Stomodeal trophallaxis	Workers feed larvae through stomodeal trophallaxis Larvae regurgitate to adults	(Cassill & al. 2005)
<i>Philidris tr01</i>	Dolichoderinae	Stomodeal trophallaxis	Stomodeal trophallaxis	(Peeters & Wiwatwityaya 2014)
<i>Plagiolepis pygmaea</i>	Formicinae	Stomodeal trophallaxis deduced from the presence of replete	Larvae fed via stomodeal trophallaxis	(Le Masne 1953, Bonavita-Cougourdan & Passera 1978)

<i>Plagiolepis xene</i>	Formicinae	Stomodeal trophallaxis between queen and host workers		(Passera & Aron 2005)
<i>Platythyrea conradti</i>	Ponerinae	Corporal pseudotrophallaxis		(Dejean & Suzzoni 1997)
<i>Platythyrea punctata</i>	Ponerinae	No stomodeal trophallaxis observed		(Hartmann & Heinze 2003)
<i>Platythyrea schultzei</i>	Ponerinae	No stomodeal trophallaxis observed	Workers drink from larval tubercle	(Villet & al. 1990, Villet 1991)
<i>Pogonomyrmex badius</i>	Myrmicinae	No trophallaxis	Larvae regurgitate liquid to adults	(Wilson 1987, Tschinkel & Kwapisch 2016)
<i>Pogonomyrmex barbatus</i>	Myrmicinae	Rare stomodeal trophallaxis between adults		(Wagner & al. 1998)
<i>Polyergus longicornis</i>	Formicinae	Stomodeal trophallaxis between workers	No larval feeding (slave makers)	(King & Trager 2007)( <i>Polyergus lucidus longicornis</i> )
<i>Polyergus rufescens</i>	Formicinae	Rare stomodeal trophallaxis events between workers		(Beck 1961)
<i>Polyrhachis dives</i>	Formicinae	Stomodeal trophallaxis		(Staab & al. 2017)
<i>Polyrhachis laboriosa</i>	Formicinae	Stomodeal trophallaxis		(Mercier & al. 1997)
<i>Polyrhachis loweryi</i>	Formicinae	Stomodeal trophallaxis		(Maschwitz & al. 2003)
<i>Polyrhachis moesta</i>	Formicinae	Stomodeal trophallaxis between queens		(Sasaki & al. 1996)
<i>Ponera coarctata</i>	Ponerinae	Stomodeal		(Liebig & al. 2010)
<i>Prenolepis imparis</i>	Formicinae	Stomodeal trophallaxis		<a href="http://entnemdept.ufl.edu/creatures/misc/ants/Prenolepis_imparis.htm">http://entnemdept.ufl.edu/creatures/misc/ants/Prenolepis_imparis.htm</a>
<i>Prenolepis nitens</i>	Formicinae	Trophallaxis between adults		(Lörinczi 2016)
<i>Prionopelta amabilis</i>	Amblyoponinae	Never observed		(Hölldobler 1985)
<i>Prionopelta kraepelini</i>	Amblyoponinae		Larvae fed with trophic eggs. Queen is mainly fed from the larval hemolymph she collects by pinching larvae	(Ito & Billen 1998)
<i>Pristomyrmex punctatus</i>	Myrmicinae	Stomodeal trophallaxis between workers		(Sasaki & Tsuji 2003)( <i>Pristomyrmex pungens</i> )
<i>Proatta butteli</i>	Myrmicinae	Stomodeal trophallaxis between workers Stomodeal trophallaxis between workers and queen	Workers feed larvae through stomodeal trophallaxis	(Mark W. Moffett 1986a)
<i>Proceratium croceum</i>	Proceratiinae	No stomodeal trophallaxis observed, but suspected to happen rarely	No stomodeal trophallaxis observed from workers to larvae Larvae suspected to excrete fluid licked by adults	(Le Masne 1953, Whelden & Haskins 1954)
<i>Proceratium itoi</i>	Proceratiinae		Queen drinks hemolymph from larval tubercles	(Masuko 2019)
<i>Proceratium japonicum</i>	Proceratiinae		Larval hemolymph feeding	(Masuko 1986a)
<i>Proceratium watasei</i>	Proceratiinae		Larval hemolymph feeding	(Masuko 1986a)
<i>Procryptocerus scabriusculus</i>	Myrmicinae	Proctodeal trophallaxis. Callows drink rectal secretions from older workers.		(Wheeler 1984)
<i>Proformica epinotalis</i>	Formicinae	Stomodeal trophallaxis between workers, deduced form the presence of repletes		(Marikovsky 1974)
<i>Prolasius advena</i>	Formicinae	Stomodeal trophallaxis	Larval feeding via stomodeal trophallaxis	(Zhao & al. 2013)
<i>Pseudomyrmex elongatus</i>	Pseudomyrmecinae	Stomodeal trophallaxis No proctodeal trophallaxis observed	Adults feed larvae via stomodeal trophallaxis	(Cole 1983)
<i>Pseudomyrmex ferrugineus</i>	Pseudomyrmecinae	Stomodeal trophallaxis and pseudotrophallaxis		(Dejean & al. 2014)
<i>Pseudomyrmex gracilis</i>	Pseudomyrmecinae	Stomodeal trophallaxis		(Mendes & Schmid 2010)
<i>Pseudomyrmex oculatus</i>	Pseudomyrmecinae	Stomodeal trophallaxis and pseudotrophallaxis		(Dejean & al. 2014)
<i>Pseudomyrmex penetrator</i>	Pseudomyrmecinae	Stomodeal trophallaxis and pseudotrophallaxis		(Dejean & al. 2014)
<i>Pseudomyrmex peperi</i>	Pseudomyrmecinae	Stomodeal trophallaxis and pseudotrophallaxis		(Dejean & al. 2014)
<i>Pseudomyrmex satanicus</i>	Pseudomyrmecinae	Stomodeal trophallaxis and pseudotrophallaxis		(Dejean & al. 2014)
<i>Pseudomyrmex tenuis</i>	Pseudomyrmecinae	Stomodeal trophallaxis and pseudotrophallaxis		(Dejean & al. 2014)
<i>Pseudomyrmex termitarius</i>	Pseudomyrmecinae	Stomodeal trophallaxis and pseudotrophallaxis		(Dejean & al. 2014)
<i>Pseudomyrmex venustus</i>	Pseudomyrmecinae	Stomodeal trophallaxis and pseudotrophallaxis		(Dejean & al. 2014)
<i>Rhytidoponera mayri</i>	Ectatomminae	No stomodeal trophallaxis observed. Mandibular pseudotrophallaxis		(Tay & Crozier 2000) ( <i>Rhytidoponera</i> sp.12)
<i>Rossomyrmex proformicarum</i>	Formicinae	Stomodeal trophallaxis between workers		(Marikovsky 1974)
<i>Sericomyrmex sp.</i>	Myrmicinae	Stomodeal trophallaxis never observed		(Wheeler 1925)
<i>Solenopsis geminata</i>	Myrmicinae	Stomodeal trophallaxis		(Bhatkar & Kloft 1977)
<i>Solenopsis invicta</i>	Myrmicinae	Stomodeal trophallaxis	Workers feed larvae via stomodeal trophallaxis	(Bhatkar 1979, Cassill & Tschinkel 1995, LeBoeuf & al. 2016)
<i>Solenopsis picta</i>	Myrmicinae		Workers feed larvae by stomodeal trophallaxis	(Cassill & Tschinkel 1996)
<i>Solenopsis richteri</i>	Myrmicinae		Adults feed larvae by stomodeal trophallaxis	(Cupp & O'Neal 1973)
<i>Stenamma lippulum</i>	Myrmicinae		Larvae fed via stomodeal trophallaxis	(Le Masne 1953)
<i>Stigmatomma pallipes</i>	Amblyoponinae	Never observed	Worker -> larvae stomodeal trophallaxis never observed. Workers feed from larval hemolymph by puncturing the larva. Queens can make larvae regurgitate by squeezing them in the neck region, and drink the resulting droplet.	(Haskins & Haskins 1951b, Traniello 1982) ( <i>Amblyopone pallipes</i> )
<i>Stigmatomma pluto</i>	Amblyoponinae	Rare stomodeal exchanges between adults	Adult -> larvae stomodeal trophallaxis never observed	(Levieux 1972)( <i>Amblyopone pluto</i> )
<i>Stigmatomma silvestrii</i>	Amblyoponinae	No stomodeal trophallaxis between workers	Queens drink larval hemolymph through small cuts Larvae (1st and 2nd instar) fed exclusively from queen eggs	(Masuko 1986a) (Masuko 2003) (Passera & Aron 2005) ( <i>Amblyopone sylvestrii</i> )

<i>Stigmatomma silvestrii</i>	Amblyoponinae		Adults feed from larval hemolymph by puncturing larvae	(Esteves & Fisher 2016)
<i>Streblognathus aethiopicus</i>	Ponerinae	Never observed	Adults feed larvae via stomodeal trophallaxis	(Ware & al. 1990)
<i>Strumigenys louisianae</i>	Ponerinae	Stomodeal trophallaxis		(Creighton 1937)
<i>Strumigenys membranifera</i>	Ponerinae	never observed	Never observed	(Wilson 1953)
<i>Strumigenys rostrata</i>	Ponerinae	Never observed	Workers were never observed feeding larvae via trophallaxis	(Wilson 1953, Wheeler & Wheeler 1954)
<i>Tapinoma erraticum</i>	Dolichoderinae	Stomodeal trophallaxis	Use proctodeal trophallaxis to feed larvae	(Wheeler & Wheeler 1966, Lenoir 1979)
<i>Tapinoma melanocephalum</i>	Dolichoderinae	Stomodeal trophallaxis		(Jesus & al. 2010)
<i>Tapinoma sessile</i>	Dolichoderinae	Stomodeal trophallaxis		(Buczkowski & Bennett 2009)
<i>Technomyrmex albipes</i>	Dolichoderinae	Stomodeal trophallaxis debated	Trophic eggs fed to sexuals and larvae. Trophic eggs laid by all females of the colony	
<i>Temnothorax albipennis</i>	Myrmicinae	Stomodeal trophallaxis	Debated Adult-larvae stomodeal trophallaxis	(Yamauchi & al. 1991, Warner 2003)
<i>Temnothorax ambiguus</i>	Myrmicinae	Stomodeal trophallaxis Proctodeal trophallaxis with slave maker species <i>Temnothorax americanus</i> queens and workers.		(Sendova-Franks & al. 2010)
<i>Temnothorax americanus</i>	Myrmicinae	Proctodeal trophallaxis with host species <i>Temnothorax ambiguus</i> and <i>Temnothorax longispinosus</i> . Hosts drink from queen and workers slavemakers.		(Stuart 1981a)
<i>Temnothorax andrei</i>	Myrmicinae		Larvae fed via stomodeal trophallaxis	(Le Masne 1953)
<i>Temnothorax longispinosus</i>	Myrmicinae	Proctodeal trophallaxis with slave maker species <i>Harpagoxenus americanus</i> queens and workers.	Larvae fed by stomodeal trophallaxis. Proctodeal trophallaxis: Larvae rarely fed by anal droplets from workers	(Stuart 1981b, Herbers & Cunningham 1983)
<i>Temnothorax muellerianus</i>	Myrmicinae	Stomodeal trophallaxis		(Heinze 2010)
<i>Temnothorax nylanderii</i>	Myrmicinae	Stomodeal trophallaxis	Larvae fed by stomodeal trophallaxis.	(Stroeymeyt & al. 2017)
<i>Temnothorax racovitzai</i>	Myrmicinae	Stomodeal trophallaxis	Larvae fed via stomodeal trophallaxis	(Le Masne 1953)
<i>Temnothorax recedens</i>	Myrmicinae		Larvae fed via stomodeal trophallaxis	(Le Masne 1953)
<i>Temnothorax rugatulus</i>	Myrmicinae	Stomodeal trophallaxis	Trophic eggs laid by specialized workers	(Charbonneau & al. 2015, Charbonneau & al. 2017)
<i>Tetramorium bicarinatum</i>	Myrmicinae	Stomodeal trophallaxis		(Astruc & al. 2001)
<i>Tetramorium immigrans</i>	Myrmicinae	Stomodeal trophallaxis		(Barrett & al. 2020)
<i>Tetramorium tsushimae</i>	Myrmicinae	Stomodeal trophallaxis between workers		(Hayashi & al. 2017)
<i>Veromessor pergandei</i>	Myrmicinae		Larvae regurgitate liquid to adults	(Tschinkel & Kwapich 2016)
<i>Vollenhovia nipponica</i>	Myrmicinae	Proctodeal trophallaxis never observed between queens Stomodeal trophallaxis with <i>Vollenhovia emeryi</i>		(Satoh & Ohkawara 2008, Ohkawara & Aonuma 2016) Satoh and Ohkawara, 2008 Ohkawara and Aonuma, 2016
<i>Wasmannia auropunctata</i>	Myrmicinae	Stomodeal trophallaxis		(Montgomery & al. 2015)
<i>Xenomyrmex floridanus</i>	Myrmicinae	Stomodeal trophallaxis No proctodeal trophallaxis observed	Adults feed larvae via stomodeal trophallaxis	(Cole 1983)

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