

List of known gastropods unaffected by female masculinization (imposex, intersex and ovo-testis) published from 1962 to 2009. Family of sympatric species that displayed female masculinization in parenthesis where (B) = Buccinidae, (F) = Fasciolaridae, (H) = Hydrobiidae, (M) = Muricidae, (N) = Nassariidae, (S) = Strombidae, (T) = Turbinellidae, and (V) = Volutidae.

Order	Family	Species	Sample Size	Region	[Tissue] ng Sn g ⁻¹	Sympatric species Showing Female Masculinization	Source									
Vestigastropoda	Trochoidae	<i>Cittarium pica</i>	NR	Caribbean	17 to 119	<i>Purpura patula</i> (M)	58									
						<i>Thais deltoidea</i> (M)										
						<i>Thais rustica</i> (M)										
Mesogastropoda	Neritidae	<i>Nerita versicolor</i>	10	S. America	NR	<i>Chicoreus brevifrons</i> (M)	239									
						<i>Leucozonia nassa</i> (F)										
	Capulidae	<i>Theodoxus fluviatilis</i>	287	Laboratory	NR		59									
						Ficidae	<i>Capulus ungaricus</i>	NR	Europe	NR	59					
											<i>Ficus ficus</i>	116	Asia	NR	<i>Babylonia areolata</i> (B)	270
						<i>Thais clavigera</i> (M)										
						Turritellidae	<i>Turritella communis</i>	NR	Laboratory	NR		59				
						Littorinidae	<i>Littorina brevicula</i>	50	Asia	NR	<i>Nucella heyseana</i> (M)	279				
											<i>L. mandshurica</i>	10	Asia	NR	<i>Nucella heyseana</i> (M)	279
											<i>L. marie</i>	139	Europe	NR	NR	54
<i>L. neritoides</i>	7	Europe	NR	NR	54											
<i>L. nigrolineata</i>	587	Europe	NR	NR	54											
<i>L. obtusata</i>	899	Europe	NR	NR	54											
<i>L. saxatilis</i>	284	Europe	NR	<i>Nucella lapillus</i> (M)	59											
<i>L. saxatilis rudis</i>	397	Europe	NR	<i>Ocenebra erinacea</i> (M)												
				NR	NR	54										

	<i>L. ziczac</i>	NR	Europe	NR	NR	54
Bithyniidae	<i>Bithynia tentaculata</i>	745	Laboratory	NR		59
Hydrobiidae	<i>Hydrobia ventrosa</i>	120	Europe	NR	<i>Hydrobia ulvae</i> (H)	59
	<i>Potamopyrgus antipodarum</i>	NR		NR		20
Aporrhaidae	<i>Aporrhais pespelicani</i>	100	Europe	NR	<i>Bolinus brandaris</i> (M) <i>Buccinum undatum</i> (B) <i>Hexaplex trunculus</i> (M)	230
Cassidae	<i>Phalium glaucum</i>	1; 1	Asia	NR	<i>Babylonia areolata</i> (B) <i>Thais gradata</i> (M)	215, 216
Ranellidae	<i>Charonia lampas</i>	11	Europe	NR	<i>Bolinus brandaris</i> (M) <i>Buccinum undatum</i> (B) <i>Hexaplex trunculus</i> (M)	230
	<i>Cymatium corrugatum</i>	35	Europe	NR	<i>Bolinus brandaris</i> (M) <i>Buccinum undatum</i> (B) <i>Hexaplex trunculus</i> (M)	230
	<i>Ranella olearia</i>	11	Europe	NR	<i>Bolinus brandaris</i> (M) <i>Buccinum undatum</i> (B) <i>Hexaplex trunculus</i> (M)	230
Strombidae	<i>Strombus costatus</i>	500	Caribbean	NR	<i>Strombus gigas</i> (S) <i>Strombus pugilis</i> (S)	77
Calyptraeidae	<i>Crepidula aculeata</i>	153	S. America	NR	<i>Adelomelon briasilina</i> (V) <i>Buccinanops cochlidium</i> (N) <i>Buccinanops globulosus</i> (N)	262
Neogastropoda	Muricidae					
	<i>Thais hippocastaneum</i>	139	Asia	NR	<i>Babylonia areolata</i> (B) <i>Thais gradata</i> (M) <i>Murex trapa</i> (M)	215,216
	<i>Thais tuberosa</i>	~ 200	Asia	NR	<i>Thais kieneri</i> (M) <i>Thais savignyi</i> (M) <i>Vasum turbinellus</i> (T)	62
		39	Asia	1.0 to 43.7*	<i>Thais clavigera</i> (M)	280

Buccinidae	<i>Trophon fabricii</i>	12	Greenland	NR	<i>Buccinum undatum (B)</i>	60
	<i>Buccinum humphreysianum</i>	3	Europe	NR	<i>Bolinus brandaris (M)</i> <i>Buccinum undatum (B)</i> <i>Hexaplex trunculus (M)</i>	230
	<i>Colus islandicus</i>	23	Greenland	NR	<i>Buccinum undatum (B)</i>	60
	<i>Cominella glandiformis</i>	~150	Oceania	NR	<i>Lepsiella albomarginata (M)</i> <i>Lepsiella scobina (M)</i>	73
	<i>Neptunea despecta</i>	10	Greenland	NR	<i>Buccinum undatum (B)</i> <i>Buccinum finmarkianum (B)</i>	60
		1	Greenland	NR	<i>Buccinum finmarkianum (B)</i>	207
	<i>Siphonalia varicosus</i>	15	Asia	NR	<i>Babylonia areolata (B)</i> <i>Thais gradata (M)</i> <i>Murex trapa (M)</i>	215
	<i>Phos senticosus</i>	2	Asia	NR	<i>Babylonia areolata (B)</i> <i>Thais bitubercularis (M)</i> <i>Thais clavigera (M)</i>	42
	<i>Volutopsius norvegicus</i>	4	Greenland	NR	<i>Buccinum finmarkianum (B)</i> <i>Colus sabini (B)</i>	207
Nassariidae	<i>Buccinanops squalidium</i>	12	S. America	NR	<i>Adelomelon briasilina (V)</i> <i>Buccinanops cochlidium (N)</i> <i>Buccinanops globulosus (N)</i>	262
Columbellidae	<i>Amphissa columbiana</i>	137	N. America	NR	<i>Nucella canliculata (M)</i> <i>Nucella emarginata (M)</i> <i>Nucella lamellosa (M)</i>	179
	<i>Astyris gausapata</i>	14	N. America	NR	<i>Nassarius mendicus (N)</i>	271
	<i>Columbella rustica</i>		Europe	NR	<i>Hexaplex trunculus (M)</i> <i>Ocenebra erinacea (M)</i> <i>Nucella lapillus (M)</i>	281
Fascioliariidae	<i>Fasciolaria tulipa</i>	5	S. America	NR	<i>Chicoreus brevifrons (M)</i> <i>Leucozonia nassa (F)</i>	239

Volutidae	<i>Voluta musica</i>	16	S. America	NR	<i>Chicoreus brevifrons (M)</i> <i>Leucozonia nassa (F)</i>	239
Harpidae	<i>Harpa articularis</i>	1;1	Asia	NR	<i>Babylonia areolata (B)</i> <i>Thais gradata (M)</i>	215,216

Nota bene:

- Region validated based on the available literature
- Source = original publication(s) that identified FM in each species and region

* = Tissue concentration reported as tributyltin + triphenyltin

NR = not reported