

A Table to the Common Simple Ascidians of the San Diego Ocean Monitoring Program - M. Lilly 6/99

| | Order/family | stigmata | tentacles | papillae on transverse vessels | Branchial folds | pages in Van Name | Comments |
|---------------------|-------------------------------|------------------------|------------------|---------------------------------------|------------------------|--------------------------|--|
| <i>Molgula</i> | Stolidobbranch | spiral | branched | none | 5-7 | 219 & 372 | renal sac present; test covered w/ sand or mud |
| <i>Eugyra</i> | Stolidobbranch/ Molgulidae | perfect double spirals | branched | none | absent | 219 & 373 | wide longitud. vessels in place of folds |
| <i>Pyura</i> | Stolidobbranch | straight | branched | none | at least 5-6 | 219 & 320 | tough, wrinkled test; dorsal lamina cleft into languets |
| <i>Microcosmus</i> | Stolidobbranch/ Pyuridae | straight | branched | none | at least 5-6 | 219 & 344 | smooth continuous dorsal lamina; test - see above |
| <i>Styela</i> | Stolidobbranch | straight | simple | none | only 4 | 219 & 230 | thick, tough, wrinkled test; testes attached to body wall separate from ovaries |
| <i>Cnemidocarpa</i> | Stolidobbranch/ Styelidae | straight | simple | none | only 4 | 230 & 262 | gonads (ovaries/testes) in close contact encased in a sheathing membrane. <i>C. rhizopus</i> - distinctive thick root and quartz/large grain covered test. |
| <i>Agnezia</i> | Phlebobbranch | spiral | simple | present* | none | 155 & 200 | * papillae = fleshy projections on transverse vessels; dorsal lamina cleft into languets |
| <i>Ascidia</i> | Phlebobbranch | straight | simple | present | none | 155 & 174 | mantle musculature = narrow bands & fibers in various directions; alim. tract/gonads on left |
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|-------------------|--------------|------------------|--------|---------|------|-----------|--|
| <i>Chelyosoma</i> | Phlebobranch | curved or spiral | simple | none | none | 203 & 205 | alim. tract/gonads on right; apertures on ovate disc bounded by plates; |
| <i>Ciona</i> | Phlebobranch | straight | simple | present | none | 155 & 160 | gelatinous/translucent test; mantle musculature = 5-7 stout longitud. muscle bands; atrial orifice has red/orange spots (fade w/ time); alim.tract/gonads behind sac |

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